

AWARD/CONTRACT		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		RATING DX-A2	PAGE OF PAGES 1 102
2. CONTRACT (Proc. Inst. Ident.) NO. HQ0276-11-C-0002-P00086		3. EFFECTIVE DATE 28 Feb 2011		4. REQUISITION/PURCHASE REQUEST/PROJECT NO. SEE SCHEDULE	
5. ISSUED BY MISSILE DEFENSE AGENCY (MDA) 17211 AVENUE D SUITE 160 DAHLGREN VA 22448-5154		CODE HQ0276	6. ADMINISTERED BY (If other than Item 5) DCMA RAYTHEON TUCSON BLDG 801 MS J-2 TUCSON AZ 85734-1337		CODE S0305A
7. NAME AND ADDRESS OF CONTRACTOR (No., street, city, county, state and zip code) RAYTHEON COMPANY 1151 E HERMANS RD TUCSON AZ 85756-9367			8. DELIVERY <input type="checkbox"/> FOB ORIGIN <input checked="" type="checkbox"/> OTHER (See below)		9. DISCOUNT FOR PROMPT PAYMENT
CODE 15090			FACILITY CODE		10. SUBMIT INVOICES (4 copies unless otherwise specified) TO THE ADDRESS SHOWN IN:
11. SHIP TO/MARK FOR See Schedule		CODE	12. PAYMENT WILL BE MADE BY DFAS COLUMBUS CENTER DFAS-COMWEST ENTITLEMENT OPERATIONS P.O. BOX 182361 COLUMBUS OH 43216-2361		CODE HQ0339
13. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: <input type="checkbox"/> 10 U.S.C. 2304(c)() <input type="checkbox"/> 41 U.S.C. 253(c)()			14. ACCOUNTING AND APPROPRIATION DATA See Schedule		
15A. ITEM NO.	15B. SUPPLIES/ SERVICES	15C. QUANTITY	15D. UNIT	15E. UNIT PRICE	15F. AMOUNT
SEE SCHEDULE					
15G. TOTAL AMOUNT OF CONTRACT					\$690,162,207.00
16. TABLE OF CONTENTS					
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CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE					
17. <input type="checkbox"/> CONTRACTOR'S NEGOTIATED AGREEMENT Contractor is required to sign this document and return copies to issuing office. Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)			18. <input checked="" type="checkbox"/> AWARD (Contractor is not required to sign this document.) Your offer on Solicitation Number HQ0276-10-R-0002 including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the items listed above and on any continuation sheets. This award consummates the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.		
19A. NAME AND TITLE OF SIGNER (Type or print)			20A. NAME OF CONTRACTING OFFICER (b)(6)		
19B. NAME OF CONTRACTOR			20B. UNITED STATES OF AMERICA (b)(6)		
19C. DATE SIGNED		20C. DATE SIGNED		03-Mar-2011	
BY _____ (Signature of person authorized to sign)			BY _____ (Signature of Contracting Officer)		

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	RESERVED				(b)(4)
	FOB: Origin				

ESTIMATED COST

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	RESERVED				(b)(4)
	FOB: Origin				

ESTIMATED COST

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003		(b)(4)	Hours		(b)(4)

In-Service Engineering Support
CPAF
Level of Effort
This CLIN is a CPAF and CPIF with Award Fee and Technical/Schedule Incentive Fee and includes In-service support to SM-3 Aegis BMD Block IA/IB missiles including Systems Engineering and Integration (SE&I) support, Flight Test support, GFE repair and Parts Obsolescence studies. This UCA does not commit the Government to a definitive contract in excess of the funds available at the time of award.
FOB: Destination

ESTIMATED COST
BASE FEE
SUBTOTAL EST COST + BASE
MAX AWARD FEE
TOTAL EST COST + FEE

(b)(4)

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000301					(b)(4)

Incremental Funding
CPAF
FOB: Destination
PURCHASE REQUEST NUMBER: 3284

ESTIMATED COST
BASE FEE
SUBTOTAL EST COST + BASE
MAX AWARD FEE
TOTAL EST COST + FEE

(b)(4)

ACRN AA
CIN: 32840001

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000302	Incremental Funding CPAF FOB: Destination PURCHASE REQUEST NUMBER: 3280				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN AB CIN: 32800001				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000303	Incremental Funding CPAF PR # 4606 Basic FOB: Destination PURCHASE REQUEST NUMBER: 4606				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN AD CIN: 46060001				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000304	Incremental Funding CPAF PR#4607 Basic FOB: Destination PURCHASE REQUEST NUMBER: 4607				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN AF CIN: 46070001				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000305	Incremental Funding CPAF PR# 5767 FOB: Destination				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN AG CIN: 57670001				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000306	Incremental Funding for CLIN 0003 CPAF FOB: Destination PURCHASE REQUEST NUMBER: HQ000617204				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN AH CIN: HQ0006172040001				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000307	Incremental Funding CLIN 0003 CPAF FOB: Destination PURCHASE REQUEST NUMBER: HQ000617653				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN AJ CIN: HQ0006176530001				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000308	Incremental Funding CLIN 0003 CPAF PR #8103 FOB: Destination PURCHASE REQUEST NUMBER: 8103				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN AK CIN: 81030001				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000309	Incremental Funding for CLIN 0003 CPAF PR#8104 FOB: Destination PURCHASE REQUEST NUMBER: 8104				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN AL CIN: 81040001				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000310	Incremental Funding for CLIN 0003 CPAF PR# 8106 FOB: Destination PURCHASE REQUEST NUMBER: 8106				(b)(4)
				ESTIMATED COST	(b)(4)
				BASE FEE	
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN AM CIN: 81060001				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000311	Incremental Funding for CLIN 0003 FFP PR# 8107 FOB: Destination PURCHASE REQUEST NUMBER: 8107			(b)(4)	(b)(4)
				NET AMT	(b)(4)
	ACRN AN CIN: 81070001				(b)(4)

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000312	Incremental Funding for CLIN 0003 CPAF PR# 8117 FOB: Destination PURCHASE REQUEST NUMBER: 8117				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN AP CIN: 81170001				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000313	Incremental Funding for CLIN 0003 CPAF PR# 4748 FOB: Destination PURCHASE REQUEST NUMBER: 4748				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN AQ CIN: 47480001				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000314	Incremental Funding for CLIN 0003 CPAF PR# 3930 FOB: Destination PURCHASE REQUEST NUMBER: 3930				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN AR CIN: 39300001				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000315	Incremental Funding for CLIN 0003 CPAF PR# 9509 FOB: Destination PURCHASE REQUEST NUMBER: 9509				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN AS CIN: 95090001				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000316	CLIN 0003 Incremental Funding CPAF FOB: Destination PURCHASE REQUEST NUMBER: 10360				(b)(4)
				ESTIMATED COST	(b)(4)
				BASE FEE	
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN AT CIN: 103600001				

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000317	Incremental Funding for CLIN 0003 ACRN AW PURCHASE REQUEST NUMBER: HQ0006211781	(b)(4)

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000318	Incremental Funding CLIN 0003 ACRN AY PURCHASE REQUEST NUMBER: HQ0006212377	(b)(4)

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000319	Incremental Funding - CLIN 0003 ACRN AZ PURCHASE REQUEST NUMBER: HQ0006214292	(b)(4)

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000320	Incremental Funding for CLIN 0003 CPAF The Line of Accounting (LOA) total is based on two PRs: PR# HQ0006214256 BASIC (b)(4) PR# HQ0006214657 BASIC (b)(4) FOB: Destination PURCHASE REQUEST NUMBER: HQ0006214256				(b)(4)

	ESTIMATED COST	(b)(4)
	BASE FEE	
	SUBTOTAL EST COST + BASE	
	MAX AWARD FEE	
	TOTAL EST COST + FEE	
ACRN BA CIN: HQ00062142560001		

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000321	Incremental Funding CLIN 0003 CPAF PR# HQ0006214247 FOB: Destination PURCHASE REQUEST NUMBER: HQ0006214247				(b)(4)
				ESTIMATED COST	(b)(4)
				BASE FEE	
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN AX CIN: HQ00062142470001				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000322	Incremental Funding - See Description CPAF Incremental funding in the amount of (b)(4) limited to flight test engineering services in support of FTI-01 Not to exceed (b)(4) for cost and (b)(4) in fee as refelected in the Allotment of Funds Clause FOB: Destination PURCHASE REQUEST NUMBER: HQ0006217204				(b)(4)
				ESTIMATED COST	(b)(4)
				BASE FEE	
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN BB CIN: HQ00062172040001				

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000323	Incremental Funding CLIN 0003 ACRN AX PURCHASE REQUEST NUMBER: HQ0006216010	(b)(4)

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000324	Incremental Funding CLIN 0003 CPAF Incremental Funding in the amount of (b)(4) to be applied to CLIN 0003 FOB: Destination PURCHASE REQUEST NUMBER: HQ0006217063				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN BC CIN: HQ00062170630001				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000325	Incremental Funding CLIN 0003 CPAF Incremental Funding in the amount of (b)(4) to be applied to CLIN 0003 for Nosecone Redesign. FOB: Destination PURCHASE REQUEST NUMBER: HQ0006217258				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN AX				

CIN: HQ00062172580001

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000326	Incremental Funding CLIN 0003	
	ACRN AX	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006217355	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000327	Incremental Funding CLIN 0003	
	ACRN AX	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006217355	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000328	Incremental Funding CLIN 0003	
	ACRN AX	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006217424	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000329	Incremental Funding CPAF PR# HQ0276320196 BASIC FOB: Destination PURCHASE REQUEST NUMBER: HQ0276320196				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN BF CIN: HQ02763201960003				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000330	Incremental Funding CPAF PR# HQ0276320246 BASIC for TI 3-4 Flight Test FOB: Destination PURCHASE REQUEST NUMBER: HQ0276320246				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN BG CIN: HQ02763202460003				

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000331	Incremental Funding CLIN 0003	
	ACRN BK	(b)(4)
	PURCHASE REQUEST NUMBER: 24159	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000332	Incremental Funding CLIN 0003	
	ACRN BL	(b)(4)
	PURCHASE REQUEST NUMBER: 24165	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000333	Incremental Funding CLIN 0003	
	ACRN BN	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006326251	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000334	Incremental Funding CLIN 0003	
	ACRN BA	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006329027	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000335	Incremental Funding CLIN 0003 CPAF Incremental Funding CLIN 0003 in the amount of (b)(4) PR#HQ0006329509 in the amount (b)(4) FOB: Destination PURCHASE REQUEST NUMBER: HQ0006329509				(b)(4)
				ESTIMATED COST	(b)(4)
				BASE FEE	
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN BA CIN: HQ00063295090003				

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000336	Incremental Funding CLIN 0003 ACRN BE PURCHASE REQUEST NUMBER: HQ0006329509	(b)(4)

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000337	Incremental Funding CLIN 0003 ACRN BR PURCHASE REQUEST NUMBER: HQ0006329509	(b)(4)

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000338	Incremental Funding CLIN 0003 CPAF FOB: Destination PURCHASE REQUEST NUMBER: HQ0006329571				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN BF CIN: HQ00063295710001				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000339	Incremental Funding CLIN 0003 CPAF FOB: Destination PURCHASE REQUEST NUMBER: HQ0006329571				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN BK CIN: HQ00063295710002				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000340	Incremental Funding CLIN 0003 CPAF FOB: Destination PURCHASE REQUEST NUMBER: HQ0006329571				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN BG CIN: HQ00063295710003				

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000341	Incremental Funding CLIN 0003 ACRN BX PURCHASE REQUEST NUMBER: HQ0276431774	(b)(4)

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000342	Incremental Funding CLIN 0003 CPAF FOB: Destination PURCHASE REQUEST NUMBER: HQ0006434233				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN CC CIN: HQ00064342330003				

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000343	Incremental Funding for CLIN 0003	
	ACRN BZ	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006434234	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000344	Incremental Funding CLIN 0003	
	ACRN BF	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0147438514	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000345	Incremental Funding CLIN 0003	
	ACRN BK	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0147438514	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000346	Incremental Funding CLIN 0003	
	ACRN BG	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0147438514	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000347	Incremental Funding for CLIN 0003	
	ACRN CE	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006540900	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000348	Incremental Funding for CLIN 0003	
	ACRN BX	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0276542061	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000349	Incremental Finding for CLIN 0003	
	ACRN CG	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006545568	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004	RESERVED				(b)(4)
	FOB: Origin				

ESTIMATED COST

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005	RESERVED				(b)(4)
	FOB: Origin				

ESTIMATED COST

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006	Post Development Systems Engineering	(b)(4)	Hours		(b)(4)
EXERCISED OPTION	CPAF				
	Post Development Systems Engineering to include design, analysis and system engineering to support future improvements to the SM-3 Block IA/IB missiles				
	FOB: Destination				

ESTIMATED COST
BASE FEE

SUBTOTAL EST COST + BASE

MAX AWARD FEE

TOTAL EST COST + FEE

(b)(4)

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000601	CLIN 0006 Option Exercise	
	ACRN AX	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006214839	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000602	Incremental Funding				(b)(4)
	CPAF				
	PR# HQ0276320196 BASIC				
	FOB: Destination				
	PURCHASE REQUEST NUMBER: HQ0276320196				
				ESTIMATED COST	(b)(4)
				BASE FEE	
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN BF				
	CIN: HQ02763201960006				

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000603	Incremental Funding CLIN 0019	
	ACRN BM	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006324890	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000604	Incremental Funding CLIN 0006 CPAF Incremental Funding CLIN 0006 in the amount of (b)(4) - PR#HQ0006328804 in support of Aegis Ashore CVT-01 Range Tapes. FOB: Destination PURCHASE REQUEST NUMBER: HQ0006328804				(b)(4)
				ESTIMATED COST	(b)(4)
				BASE FEE	
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN BR CIN: HQ00063288040001				

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000605	Incremental Funding CLIN 0006 ACRN BA PURCHASE REQUEST NUMBER: HQ0006329027	(b)(4)

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000606	Incremental Funding CLIN 0006 CPAF Incremental Funding CLIN 0006 in the amount of (b)(4) PR#HQ0006329019 FOB: Destination PURCHASE REQUEST NUMBER: HQ0006329019				(b)(4)
				ESTIMATED COST	(b)(4)
				BASE FEE	
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN BU CIN: HQ00063290190006				

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000607	Incremental Funding CLIN 0006 ACRN BV PURCHASE REQUEST NUMBER: HQ0006329153	(b)(4)

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000608	Incremental Funding CLIN 0006 ACRN BW PURCHASE REQUEST NUMBER: HQ0006431898	(b)(4)

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000609	Incremental Funding CLIN 0006	
	ACRN CA	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006432759	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000610	Incremental Funding CLIN 0006	
	ACRN CH	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006545708	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0007	RESERVED				(b)(4)
	FOB: Origin				
				ESTIMATED COST	

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0008 EXERCISED OPTION	Foreign Military Sales (FMS) CPAF Foreign Military Sales FOB: Destination	(b)	Lot		(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000801	Incremental Funding CPAF CLIN 0008 FOB: Destination PURCHASE REQUEST NUMBER: N0002413MP00378				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN BJ CIN: N0002413MP003780001				

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000802	FMS - Incremental Funding CLIN 0008	
	ACRN BP	(b)(4)
	PURCHASE REQUEST NUMBER: N0002413MP00634	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000803	Incremental Funding CPAF				(b)(4)
	Incremental Funding CLIN 0008	(b)(4)	Work	(b)(4)	
	FOB: Destination				
	PURCHASE REQUEST NUMBER: N0002413MP00757				
				ESTIMATED COST	(b)(4)
				BASE FEE	
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN BS				
	CIN: N0002413MP007570001				

ITEM NO	SUPPLIES/SERVICES	AMOUNT
000804	Incremental Funding CLIN 0008	
	ACRN CB	(b)(4)
	PURCHASE REQUEST NUMBER: N0002413MP00781	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000805	Incremental Funding CPAF FOB: Destination PURCHASE REQUEST NUMBER: N0002415MP00609				(b)(4)
				ESTIMATED COST	(b)(4)
				BASE FEE	
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN CJ CIN: N0002415MP006090001				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0009	RESERVED				(b)(4)
	FOB: Origin				
				ESTIMATED COST	

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0010	Special Test Equipment (STE) CPIF Special Test Equipment/Tooling provides SM-3 Aegis Ballistic Missile Defense (BMD) Block IB manufacturing to achieve a Guided Missile Round (GMR) production rate of (b)(4) SM-3 Block IB GMRs per month FOB: Destination	(b)(4)	Hours		(b)(4)
				TARGET COST	(b)(4)
				TARGET FEE	
				TOTAL TGT COST + FEE	
				MINIMUM FEE	
				MAXIMUM FEE	
				SHARE RATIO ABOVE TARGET	
				SHARE RATIO BELOW TARGET	

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001001	Incremental Funding for CLIN 0010 ACRN AU PURCHASE REQUEST NUMBER: HQ000619505	(b)(4)

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
001002	Incremental Funding CLIN 0010 CPIF PR #HQ0006212018 FOB: Destination PURCHASE REQUEST NUMBER: HQ0006212018				(b)(4)
				TARGET COST	(b)(4)
				TARGET FEE	
				TOTAL TGT COST + FEE	
				MINIMUM FEE	
				MAXIMUM FEE	
				SHARE RATIO ABOVE TARGET	
				SHARE RATIO BELOW TARGET	
	ACRN AX CIN: HQ00062120180001				(b)(4)

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001003	Incremental Funding CLIN 0010	
	ACRN AX	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006217045	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
001004	Incremental Funding CPIF PR# HQ0276320196 BASIC FOB: Destination PURCHASE REQUEST NUMBER: HQ0276320196				(b)(4)
				TARGET COST	(b)(4)
				TARGET FEE	
				TOTAL TGT COST + FEE	
				MINIMUM FEE	
				MAXIMUM FEE	
				SHARE RATIO ABOVE TARGET	
				SHARE RATIO BELOW TARGET	
	ACRN BF CIN: HQ02763201960010				(b)(4)

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001005	Incremental Funding CLIN 0010	
	ACRN BG	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0276328170	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001006	Incremental Funding CLIN 0010	
	ACRN BK	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0276328169	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001007	Incremental Funding CLIN 0010	
	ACRN BE	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0276328484	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001008	Incremental Funding CLIN 0010	
	ACRN BA	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006329027	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001009	Incremental Funding CLIN 0010	
	ACRN BR	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0276328481	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0011	RESERVED				(b)(4)
	FOB: Origin				
				ESTIMATED COST	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0012 OPTION	Special Test Equipment (STE) CPIF Special Test Equipment/Tooling provides SM-3 Aegis Ballistic Missile Defense (BMD) Block IB manufacturing to achieve a Guided Missile Round (GMR) production rate of (b)(4) SM-3 Block IB GMRs per month FOB: Destination	(b)	Lot		(b)(4)
				TARGET COST	(b)(4)
				TARGET FEE	
				TOTAL TGT COST + FEE	
				MINIMUM FEE	
				MAXIMUM FEE	
				SHARE RATIO ABOVE TARGET	
				SHARE RATIO BELOW TARGET	

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0013	RESERVED				(b)(4)
	FOB: Origin				
				ESTIMATED COST	

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0014	RESERVED				(b)(4)
	FOB: Origin				
				ESTIMATED COST	

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0015	Block IB Discrimination CPAF Block IB discrimination improvement provides for modifying the software and firmware design, developing and supports test of a Block IB GMR with advanced discrimination architecture FOB: Destination	(b)(4)	Hours		(b)(4)
				ESTIMATED COST	(b)(4)
				BASE FEE	
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001501	Incremental Funding for CLIN 0015 ACRN AV PURCHASE REQUEST NUMBER: HQ000619507	(b)(4)

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001502	Incremental Funding CLIN 0015 ACRN AX PURCHASE REQUEST NUMBER: HQ0006213416	(b)(4)

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001503	Incremental Funding CLIN 0015	
	ACRN AX	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006217041	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001504	Incremental Funding CLIN 0015	
	ACRN BF	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0276320196	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
001505	Incremental Funding CLIN 0015				(b)(4)
	CPAF				
	Incremental Funding CLIN 0015 in the amount of			(b)(4) PR#	
	HQ0006324512 Amend 2				
	FOB: Destination				
	PURCHASE REQUEST NUMBER: 24512				
				ESTIMATED COST	(b)(4)
				BASE FEE	
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN BE				
	CIN: 245120001				

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001506	Incremental Funding CLIN 0015	
	ACRN BA	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006329027	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
001507	Incremental Funding CLIN 0015				(b)(4)
	CPAF				
	Incremental Funding CLIN 0015 in the amount of	(b)(4)		PR HQ0276431774	
	Amend 01.				
	FOB: Destination				
	PURCHASE REQUEST NUMBER: HQ0276431774				
				ESTIMATED COST	(b)(4)
				BASE FEE	
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN BX				
	CIN: HQ02764317740015				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0016	RESERVED				(b)(4)
	FOB: Origin				
				ESTIMATED COST	

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0017	Travel CPFF This CLIN is established for Travel Cost Reimbursement only. FOB: Origin	(b)	Lot		(b)(4)
				ESTIMATED COST FIXED FEE	(b)(4)
				TOTAL EST COST + FEE	

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
001701	Incremental Funding CPFF FOB: Destination PURCHASE REQUEST NUMBER: 3282				(b)(4)
				ESTIMATED COST FIXED FEE	(b)(4)
				TOTAL EST COST + FEE	
	ACRN AC CIN: 32820001				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
001702	Incremental Funding CPFF PR 4608 Basic FOB: Destination PURCHASE REQUEST NUMBER: 4608				(b)(4)
				ESTIMATED COST FIXED FEE	(b)(4)
				TOTAL EST COST + FEE	
	ACRN AE				

CIN: 46080001

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
001703	Incremental Funding CLIN 0017 CPFF PR#HQ0006212018 FOB: Destination PURCHASE REQUEST NUMBER: HQ0006212018				(b)(4)
				ESTIMATED COST FIXED FEE	(b)(4)
				TOTAL EST COST + FEE	(b)(4)
	ACRN AX CIN: HQ00062120180002				

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001704	Incremental Funding CLIN 0017	
	ACRN AX	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006217038	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001705	Incremental Funding CLIN 0017	
	ACRN BE	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006219450	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
001706	Incremental Funding CLIN 0017 CPFF Incremental Funding CLIN 0017 FOB: Destination PURCHASE REQUEST NUMBER: HQ0006219450				(b)(4)
				ESTIMATED COST FIXED FEE	(b)(4)
				TOTAL EST COST + FEE	(b)(4)
	ACRN BA CIN: HQ00062194500002				

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001707	Incremental Funding CLIN 0017 ACRN BE PURCHASE REQUEST NUMBER: HQ0006219450	(b)(4)

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001708	Incremental Funding CLIN 0017 ACRN BE PURCHASE REQUEST NUMBER: HQ0006219867	(b)(4)

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
001709	Incremental Funding CPAF PR# HQ0276320196 BASIC FOB: Destination PURCHASE REQUEST NUMBER: HQ0276320196				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN BF CIN: HQ02763201960017				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
001710	Incremental Funding CLIN 0017 CPFF Incremental Funding in the amount of (b)(4) to be applied to CLIN 0017 FOB: Destination PURCHASE REQUEST NUMBER: HQ0006327657				(b)(4)
				ESTIMATED COST FIXED FEE	(b)(4)
				TOTAL EST COST + FEE	
	ACRN BR CIN: HQ00063276570001				

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001711	Incremental Funding CLIN 0017 ACRN BA	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006329027	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0018	RESERVED				(b)(4)
	FOB: Origin				

ESTIMATED COST

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0019	Service Life Extension Program (SLEP)	(b)(4)	Hours		(b)(4)
EXERCISED OPTION	CPAF Service Life Extension Program (SLEP) includes developing a Service Life Evaluation to identify areas where certifications, upgrades and replacement of key components and assemblies may extend the service life of the SM-3 Block IA/IB GMRs. FOB: Destination				

ESTIMATED COST	(b)(4)
BASE FEE	
SUBTOTAL EST COST + BASE	
MAX AWARD FEE	
TOTAL EST COST + FEE	

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001901	Incremental Funding CLIN 0019 ACRN AX PURCHASE REQUEST NUMBER: HQ0006214842	(b)(4)

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
001902	CLIN 0019 FMS Funding CPAF Funding to be applied to FMS Engineering work being performed under CLIN 0019 SLEP. FOB: Destination PURCHASE REQUEST NUMBER: N0002412MP00579				(b)(4)
				ESTIMATED COST BASE FEE	(b)(4)
				SUBTOTAL EST COST + BASE	
				MAX AWARD FEE	
				TOTAL EST COST + FEE	
	ACRN BD CIN: N0002412MP005790001				

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001903	Incremental Funding ACRN BH PURCHASE REQUEST NUMBER: HQ0006320940	(b)(4)

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001904	Incremental Funding CLIN 0019	
	ACRN BQ	(b)(4)
	PURCHASE REQUEST NUMBER: DO9MLB30283	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001905	Incremental Funding CLIN 0019	
	ACRN BY	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006431937	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001906	Incremental Funding CLIN 0019	
	ACRN BZ	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006432425	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
001907	Incremental Funding for CLIN 0019	
	ACRN CF	(b)(4)
	PURCHASE REQUEST NUMBER: HQ0006543866	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0020					(b)(4)

RESERVED

FOB: Origin

ESTIMATED COST

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0021					(b)(4)

RESERVED

FOB: Origin

ESTIMATED COST

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0022		(b)	Lot		(b)(4)

Data and Reports for all CLINs
COST

Data and Reports for all CLINs
FOB: Origin

ESTIMATED COST

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0023	Mentor Protégé Agreement (MPA): COST To be performed in accordance with the Department of Defense Mentor Protégé Program Mentor Protégé Agreement (MPA) between Raytheon Missile Systems, signed January 2, 2013, and (b)(4) signed January 3, 2013. FOB: Destination	(b)	Lot		(b)(4)
				ESTIMATED COST	(b)(4)

FSC CD: AC21

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
002301	Mentor Protégé Agreement (MPA): YEAR 1 COST FOB: Destination PURCHASE REQUEST NUMBER: DSAM28565				(b)(4)
	ACRN BT CIN: DSAM285650001			ESTIMATED COST	(b)(4)

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
002302	Incremental Funding CLIN 0023 COST Incremental Funding CLIN 0023 - Basic MIPR DSAM31377 FOB: Destination PURCHASE REQUEST NUMBER: DSAM31377				(b)(4)
	ACRN CD CIN: DSAM313770001			ESTIMATED COST	(b)(4)

ITEM NO	SUPPLIES/SERVICES	AMOUNT
002303	Mentor Protege Agreement (MPA) YEAR 3	
	ACRN CK	(b)(4)
	PURCHASE REQUEST NUMBER: DSAM50876	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024	FMS - (b)(4)	(b)(4)	Hours		(b)(4)
	CPFF				
	FMS Case - (b)(4)				
	FOB: Destination				
				ESTIMATED COST	(b)(4)
				FIXED FEE	
				TOTAL EST COST + FEE	

ITEM NO	SUPPLIES/SERVICES	AMOUNT
002401	Funding for CLIN 0024	
	ACRN CL	(b)(4)
	PURCHASE REQUEST NUMBER: N0002415MP00910	

CLIN MINIMUM/MAXIMUM QUANTITY AND CLIN VALUE

The minimum quantity(s) and CLIN value(s) for all orders issued against the CLIN(s) on this contract shall not be less than the minimum quantity(s) and CLIN value(s) stated in the following table. The maximum quantity(s) and CLIN value(s) for all orders issued against the CLIN(s) on this contract shall not exceed the maximum quantity(s) and CLIN value(s) stated in the following table.

CLIN	MINIMUM QUANTITY	MINIMUM AMOUNT	MAXIMUM QUANTITY	MAXIMUM AMOUNT
0003		(b)(4)		(b)(4)

CLIN DELIVERY/TASK ORDER MINIMUM/MAXIMUM QUANTITY AND CLIN ORDER VALUE

The minimum quantity and order value for the given Delivery/Task Order issued for this CLIN shall not be less than the minimum quantity and order value stated in the following table. The maximum quantity and order value for the given Delivery/Task Order issued for this CLIN shall not exceed the maximum quantity and order value stated in the following table.

CLIN	MINIMUM QUANTITY	MINIMUM AMOUNT	MAXIMUM QUANTITY	MAXIMUM AMOUNT
0001		\$		\$
0002		\$		\$
0003		\$		\$
000301		\$		\$
000302		\$		\$
000303		\$		\$
000304		\$		\$
000305		\$		\$
000306		\$		\$
000307		\$		\$
000308		\$		\$
000309		\$		\$
000310		\$		\$
000311		\$		\$

000312	\$	\$
000313	\$	\$
000314	\$	\$
000315	\$	\$
000316	\$	\$
000317	\$	\$
000318	\$	\$
000319	\$	\$
000320	\$	\$
000321	\$	\$
000322	\$	\$
000323	\$	\$
000324	\$	\$
000325	\$	\$
000326	\$	\$
000327	\$	\$
000328	\$	\$
000329	\$	\$
000330	\$	\$
000331	\$	\$
000332	\$	\$
000333	\$	\$
000334	\$	\$
000335	\$	\$
000336	\$	\$
000337	\$	\$
000338	\$	\$

000339	\$	\$
000340	\$	\$
000341	\$	\$
000342	\$	\$
000343	\$	\$
000344	\$	\$
000345	\$	\$
000346	\$	\$
000347	\$	\$
000348	\$	\$
000349	\$	\$
0004	\$	\$
0005	\$	\$
0006	\$	\$
000601	\$	\$
000602	\$	\$
000603	\$	\$
000604	\$	\$
000605	\$	\$
000606	\$	\$
000607	\$	\$
000608	\$	\$
000609	\$	\$
000610	\$	\$
0007	\$	\$
0008	\$	\$
000801	\$	\$

000802	\$	\$
000803	\$	\$
000804	\$	\$
000805	\$	\$
0009	\$	\$
0010	\$	\$
001001	\$	\$
001002	\$	\$
001003	\$	\$
001004	\$	\$
001005	\$	\$
001006	\$	\$
001007	\$	\$
001008	\$	\$
001009	\$	\$
0011	\$	\$
0012	\$	\$
0013	\$	\$
0014	\$	\$
0015	\$	\$
001501	\$	\$
001502	\$	\$
001503	\$	\$
001504	\$	\$
001505	\$	\$
001506	\$	\$
001507	\$	\$

0016	\$	\$
0017	\$	\$
001701	\$	\$
001702	\$	\$
001703	\$	\$
001704	\$	\$
001705	\$	\$
001706	\$	\$
001707	\$	\$
001708	\$	\$
001709	\$	\$
001710	\$	\$
001711	\$	\$
0018	\$	\$
0019	\$	\$
001901	\$	\$
001902	\$	\$
001903	\$	\$
001904	\$	\$
001905	\$	\$
001906	\$	\$
001907	\$	\$
0020	\$	\$
0021	\$	\$
0022	\$	\$
0023	\$	\$
002301	\$	\$

002302	\$	\$
002303	\$	\$
0024	\$	\$

CLIN 0024 FEE & SHARE RATIO

CLIN 0024 Fee Schedule

Min Fee - (b)(4)
Target Fee - (b)(4)
Max Fee - (b)(4)

CLIN 0024 Share Ratio

Overrun - (b)(4)
Underrun - (b)(4)

Section C - Descriptions and Specifications

CLAUSES INCORPORATED BY FULL TEXT

C-01 SCOPE OF WORK (MAY 2005)

The Contractor shall perform the work specified in the Statement of Objectives/ Statement of Work (SOO/SOW) or other Attachments and Exhibits in Section J of this contract. The Contractor shall provide all necessary materials, labor, equipment and facilities incidental to the performance of this requirement.

Section D - Packaging and Marking

CLAUSES INCORPORATED BY FULL TEXT

D-01 PACKAGING AND MARKING OF TECHNICAL DATA (APR 2009)

Technical data items shall be preserved, packaged, packed, and marked in accordance with the best commercial practices to meet the packaging requirements of the carrier and insure safe delivery at destination. Classified reports, data and documentation shall be prepared for shipment in accordance with the current National Industrial Security Program Operation Manual (NISPOM), DOD 5220.22-M.

CLAUSES INCORPORATED BY FULL TEXT

D-02 PACKAGING AND MARKING OF HARDWARE ITEMS (APR 2009)

a. The contractor shall utilize best commercial practices for the preservation, packaging, marking and labeling of any hardware delivered under this contract to insure safe delivery at final destination. However, the contractor should also note the requirements of DFARS 252.211-7003, Item Identification and Valuation, if applicable.

b. Packaging and marking of hazardous materials shall comply with Title 49 of the Code of Federal Regulation and the International Maritime Dangerous Goods.

c. MARKING INSTRUCTIONS FOR MISSILE DEFENSE AGENCY (MDA) REQUIREMENTS – Request for marking instructions shall be submitted electronically at least 90 days prior to required delivery date, to:

Missile Defense Agency, MDA/AB

(b)(6)

17211 Avenue D, Suite 160

Dahlgren, VA 22448-5154

(b)(6)

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	Destination	Government	Destination	Government
0002	Destination	Government	Destination	Government
0003	Destination	Government	Destination	Government
000301	Destination	Government	Destination	Government
000302	Destination	Government	Destination	Government
000303	Destination	Government	Destination	Government
000304	Destination	Government	Destination	Government
000305	Destination	Government	Destination	Government
000306	Destination	Government	Destination	Government
000307	Destination	Government	Destination	Government
000308	Destination	Government	Destination	Government
000309	Destination	Government	Destination	Government
000310	Destination	Government	Destination	Government
000311	Destination	Government	Destination	Government
000312	Destination	Government	Destination	Government
000313	Destination	Government	Destination	Government
000314	Destination	Government	Destination	Government
000315	Destination	Government	Destination	Government
000316	Destination	Government	Destination	Government
000317	Destination	Government	Destination	Government
000318	Destination	Government	Destination	Government
000319	Destination	Government	Destination	Government
000320	Destination	Government	Destination	Government
000321	N/A	N/A	N/A	Government
000322	N/A	N/A	N/A	Government
000323	N/A	N/A	N/A	Government
000324	N/A	N/A	N/A	Government
000325	N/A	N/A	N/A	Government
000326	N/A	N/A	N/A	Government
000327	N/A	N/A	N/A	Government
000328	N/A	N/A	N/A	Government
000329	N/A	N/A	N/A	Government
000330	N/A	N/A	N/A	Government
000331	N/A	N/A	N/A	Government
000332	N/A	N/A	N/A	Government
000333	N/A	N/A	N/A	Government
000334	N/A	N/A	N/A	Government
000335	N/A	N/A	N/A	Government
000336	N/A	N/A	N/A	Government
000337	N/A	N/A	N/A	Government
000338	N/A	N/A	N/A	Government
000339	N/A	N/A	N/A	Government
000340	N/A	N/A	N/A	Government

000341	N/A	N/A	N/A	Government
000342	N/A	N/A	N/A	Government
000343	N/A	N/A	N/A	Government
000344	N/A	N/A	N/A	Government
000345	N/A	N/A	N/A	Government
000346	N/A	N/A	N/A	Government
000347	N/A	N/A	N/A	Government
000348	N/A	N/A	N/A	Government
000349	N/A	N/A	N/A	Government
0004	Destination	Government	Destination	Government
0005	Destination	Government	Destination	Government
0006	Destination	Government	Destination	Government
000601	Destination	Government	Destination	Government
000602	N/A	N/A	N/A	Government
000603	N/A	N/A	N/A	Government
000604	N/A	N/A	N/A	Government
000605	N/A	N/A	N/A	Government
000606	N/A	N/A	N/A	Government
000607	N/A	N/A	N/A	Government
000608	N/A	N/A	N/A	Government
000609	N/A	N/A	N/A	Government
000610	N/A	N/A	N/A	Government
0007	Destination	Government	Destination	Government
0008	Destination	Government	Destination	Government
000801	Origin	Government	Origin	Government
000802	N/A	N/A	N/A	Government
000803	N/A	N/A	N/A	Government
000804	N/A	N/A	N/A	Government
000805	N/A	N/A	N/A	Government
0009	Destination	Government	Destination	Government
0010	Destination	Government	Destination	Government
001001	Destination	Government	Destination	Government
001002	Destination	Government	Destination	Government
001003	N/A	N/A	N/A	Government
001004	N/A	N/A	N/A	Government
001005	N/A	N/A	N/A	Government
001006	N/A	N/A	N/A	Government
001007	N/A	N/A	N/A	Government
001008	N/A	N/A	N/A	Government
001009	N/A	N/A	N/A	Government
0011	Destination	Government	Destination	Government
0012	Destination	Government	Destination	Government
0013	Destination	Government	Destination	Government
0014	Destination	Government	Destination	Government
0015	Destination	Government	Destination	Government
001501	Destination	Government	Destination	Government
001502	Destination	Government	Destination	Government
001503	N/A	N/A	N/A	Government
001504	N/A	N/A	N/A	Government
001505	N/A	N/A	N/A	Government
001506	N/A	N/A	N/A	Government
001507	N/A	N/A	N/A	Government
0016	Destination	Government	Destination	Government
0017	Destination	Government	Destination	Government
001701	Destination	Government	Destination	Government

001702	Destination	Government	Destination	Government
001703	Destination	Government	Destination	Government
001704	N/A	N/A	N/A	Government
001705	N/A	N/A	N/A	Government
001706	N/A	N/A	N/A	Government
001707	N/A	N/A	N/A	Government
001708	N/A	N/A	N/A	Government
001709	N/A	N/A	N/A	Government
001710	N/A	N/A	N/A	Government
001711	N/A	N/A	N/A	Government
0018	Destination	Government	Destination	Government
0019	Destination	Government	Destination	Government
001901	Destination	Government	Destination	Government
001902	N/A	N/A	N/A	Government
001903	N/A	N/A	N/A	Government
001904	N/A	N/A	N/A	Government
001905	N/A	N/A	N/A	Government
001906	N/A	N/A	N/A	Government
001907	N/A	N/A	N/A	Government
0020	Destination	Government	Destination	Government
0021	Destination	Government	Destination	Government
0022	Destination	Government	Destination	Government
0023	Origin	Government	Origin	Government
002301	Origin	Government	Origin	Government
002302	N/A	N/A	N/A	Government
002303	N/A	N/A	N/A	Government
0024	Origin	Government	Origin	Government
002401	N/A	N/A	N/A	Government

CLAUSES INCORPORATED BY REFERENCE

52.246-3	Inspection Of Supplies Cost-Reimbursement	MAY 2001
52.246-5	Inspection Of Services Cost-Reimbursement	APR 1984
52.246-8	Inspection Of Research And Development Cost Reimbursement	MAY 2001
252.246-7000	Material Inspection And Receiving Report	MAR 2008

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC
0001	POP 16-FEB-2011 TO 16-JUN-2011	N/A	MISSILE DEFENSE AGENCY (MDA) 17211 AVENUE D SUITE 160 DAHLGREN VA 22448-5154 FOB: Origin	HQ0276
0002	POP 16-FEB-2011 TO 16-JUN-2011	N/A	(SAME AS PREVIOUS LOCATION) FOB: Origin	HQ0276
0003	POP 28-FEB-2011 TO 30-SEP-2015	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	HQ0276
000301	N/A	N/A	N/A	N/A
000302	N/A	N/A	N/A	N/A
000303	N/A	N/A	N/A	N/A
000304	N/A	N/A	N/A	N/A
000305	N/A	N/A	N/A	N/A
000306	N/A	N/A	N/A	N/A
000307	N/A	N/A	N/A	N/A
000308	N/A	N/A	N/A	N/A
000309	N/A	N/A	N/A	N/A
000310	N/A	N/A	N/A	N/A
000311	N/A	N/A	N/A	N/A
000312	N/A	N/A	N/A	N/A
000313	N/A	N/A	N/A	N/A
000314	N/A	N/A	N/A	N/A
000315	N/A	N/A	N/A	N/A
000316	N/A	N/A	N/A	N/A
000317	N/A	N/A	N/A	N/A

000318	N/A	N/A	N/A	N/A
000319	N/A	N/A	N/A	N/A
000320	N/A	N/A	N/A	N/A
000321	N/A	N/A	N/A	N/A
000322	N/A	N/A	N/A	N/A
000323	N/A	N/A	N/A	N/A
000324	N/A	N/A	N/A	N/A
000325	N/A	N/A	N/A	N/A
000326	N/A	N/A	N/A	N/A
000327	N/A	N/A	N/A	N/A
000328	N/A	N/A	N/A	N/A
000329	N/A	N/A	N/A	N/A
000330	N/A	N/A	N/A	N/A
000331	N/A	N/A	N/A	N/A
000332	N/A	N/A	N/A	N/A
000333	N/A	N/A	N/A	N/A
000334	N/A	N/A	N/A	N/A
000335	N/A	N/A	N/A	N/A
000336	N/A	N/A	N/A	N/A
000337	N/A	N/A	N/A	N/A
000338	N/A	N/A	N/A	N/A
000339	N/A	N/A	N/A	N/A
000340	N/A	N/A	N/A	N/A
000341	N/A	N/A	N/A	N/A
000342	N/A	N/A	N/A	N/A
000343	N/A	N/A	N/A	N/A
000344	N/A	N/A	N/A	N/A
000345	N/A	N/A	N/A	N/A

000346	N/A	N/A	N/A	N/A
000347	N/A	N/A	N/A	N/A
000348	N/A	N/A	N/A	N/A
000349	N/A	N/A	N/A	N/A
0004	POP 16-FEB-2011 TO 16-JUN-2011	N/A	MISSILE DEFENSE AGENCY (MDA) 17211 AVENUE D SUITE 160 DAHLGREN VA 22448-5154 FOB: Origin	HQ0276
0005	POP 16-FEB-2011 TO 16-JUN-2011	N/A	(SAME AS PREVIOUS LOCATION) FOB: Origin	HQ0276
0006	POP 14-MAR-2012 TO 30-SEP-2015	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	HQ0276
000601	N/A	N/A	N/A	N/A
000602	N/A	N/A	N/A	N/A
000603	N/A	N/A	N/A	N/A
000604	N/A	N/A	N/A	N/A
000605	N/A	N/A	N/A	N/A
000606	N/A	N/A	N/A	N/A
000607	N/A	N/A	N/A	N/A
000608	N/A	N/A	N/A	N/A
000609	N/A	N/A	N/A	N/A
000610	N/A	N/A	N/A	N/A
0007	POP 16-FEB-2011 TO 16-JUN-2011	N/A	MISSILE DEFENSE AGENCY (MDA) 17211 AVENUE D SUITE 160 DAHLGREN VA 22448-5154 FOB: Origin	HQ0276
0008	POP 08-MAR-2013 TO 30-SEP-2015	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	HQ0276
000801	N/A	N/A	N/A	N/A
000802	N/A	N/A	N/A	N/A
000803	N/A	N/A	N/A	N/A
000804	N/A	N/A	N/A	N/A

000805	N/A	N/A	N/A	N/A
0009	POP 16-FEB-2011 TO 16-JUN-2011	N/A	MISSILE DEFENSE AGENCY (MDA) 17211 AVENUE D SUITE 160 DAHLGREN VA 22448-5154 FOB: Origin	HQ0276
0010	POP 22-DEC-2011 TO 30-SEP-2015	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	HQ0276
001001	N/A	N/A	N/A	N/A
001002	N/A	N/A	N/A	N/A
001003	N/A	N/A	N/A	N/A
001004	N/A	N/A	N/A	N/A
001005	N/A	N/A	N/A	N/A
001006	N/A	N/A	N/A	N/A
001007	N/A	N/A	N/A	N/A
001008	N/A	N/A	N/A	N/A
001009	N/A	N/A	N/A	N/A
0011	POP 16-FEB-2011 TO 16-JUN-2011	N/A	MISSILE DEFENSE AGENCY (MDA) 17211 AVENUE D SUITE 160 DAHLGREN VA 22448-5154 FOB: Origin	HQ0276
0012	POP 01-MAY-2012 TO 30-MAR-2015	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	HQ0276
0013	POP 16-FEB-2011 TO 16-JUN-2011	N/A	(SAME AS PREVIOUS LOCATION) FOB: Origin	HQ0276
0014	POP 16-FEB-2011 TO 16-JUN-2011	N/A	(SAME AS PREVIOUS LOCATION) FOB: Origin	HQ0276
0015	POP 22-DEC-2011 TO 30-SEP-2015	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	HQ0276
001501	N/A	N/A	N/A	N/A
001502	N/A	N/A	N/A	N/A
001503	N/A	N/A	N/A	N/A
001504	N/A	N/A	N/A	N/A
001505	N/A	N/A	N/A	N/A

001506	N/A	N/A	N/A	N/A
001507	N/A	N/A	N/A	N/A
0016	POP 16-FEB-2011 TO 16-JUN-2011	N/A	MISSILE DEFENSE AGENCY (MDA) 17211 AVENUE D SUITE 160 DAHLGREN VA 22448-5154 FOB: Origin	HQ0276
0017	POP 28-FEB-2011 TO 30-SEP-2015	N/A	(SAME AS PREVIOUS LOCATION) FOB: Origin	HQ0276
001701	N/A	N/A	N/A	N/A
001702	N/A	N/A	N/A	N/A
001703	N/A	N/A	N/A	N/A
001704	N/A	N/A	N/A	N/A
001705	N/A	N/A	N/A	N/A
001706	N/A	N/A	N/A	N/A
001707	N/A	N/A	N/A	N/A
001708	N/A	N/A	N/A	N/A
001709	N/A	N/A	N/A	N/A
001710	N/A	N/A	N/A	N/A
001711	N/A	N/A	N/A	N/A
0018	POP 16-FEB-2011 TO 16-JUN-2011	N/A	MISSILE DEFENSE AGENCY (MDA) 17211 AVENUE D SUITE 160 DAHLGREN VA 22448-5154 FOB: Origin	HQ0276
0019	POP 22-MAR-2012 TO 30-SEP-2015	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	HQ0276
001901	N/A	N/A	N/A	N/A
001902	N/A	N/A	N/A	N/A
001903	N/A	N/A	N/A	N/A
001904	N/A	N/A	N/A	N/A
001905	N/A	N/A	N/A	N/A
001906	N/A	N/A	N/A	N/A

001907	N/A	N/A	N/A	N/A
0020	POP 16-FEB-2011 TO 16-JUN-2011	N/A	MISSILE DEFENSE AGENCY (MDA) 17211 AVENUE D SUITE 160 DAHLGREN VA 22448-5154 FOB: Origin	HQ0276
0021	POP 16-FEB-2011 TO 16-JUN-2011	N/A	(SAME AS PREVIOUS LOCATION) FOB: Origin	HQ0276
0022	POP 28-FEB-2011 TO 30-SEP-2015	N/A	(SAME AS PREVIOUS LOCATION) FOB: Origin	HQ0276
0023	POP 05-AUG-2013 TO 04-AUG-2016	N/A	MISSILE DEFENSE AGENCY (MDA) (b)(6) MDA/AB 17211 AVENUE D SUITE 160 DAHLGREN VA 22448-5154 (b)(6) FOB: Destination	HQ0276
002301	N/A	N/A	N/A	N/A
002302	N/A	N/A	N/A	N/A
002303	N/A	N/A	N/A	N/A
0024	POP 23-JUL-2015 TO 22-JUL-2017	N/A	MISSILE DEFENSE AGENCY (MDA) (b)(6) 17211 AVENUE D SUITE 160 DAHLGREN VA 22448-5154 (b)(6) FOB: Destination	HQ0276
002401	N/A	N/A	N/A	N/A

CLAUSES INCORPORATED BY REFERENCE

52.242-15	Stop-Work Order	AUG 1989
52.242-15 Alt I	Stop-Work Order (Aug 1989) - Alternate I	APR 1984
52.242-17	Government Delay Of Work	APR 1984
52.247-65	F.O.B. Origin, Prepaid Freight--Small Package Shipments	JAN 1991

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 044411 097 00 0400 000 N 20112012 D 40603892C00 AMOUNT: (b)(4) CIN 32840001: (b)(4)	2520 HQ000613284	000001 000001
AB: 044411 097 00 0400 000 N 20112012 D 40603892C00 AMOUNT: (b)(4) CIN 32800001: (b)(4)	2520 HQ000613280	000001 000001
AC: 044411 097 00 0400 000 N 20112012 D 40603892C00 AMOUNT: (b)(4) CIN 32820001: (b)(4)	2520 HQ000613282	000001 000001
AD: 044411 097 0400 000 N 20112012 D 40603892C00 AMOUNT: (b)(4) CIN 46060001: (b)(4)	2520 HQ000614606	000001 000001
AE: 044411 097 0400 000 N 20112012 D 40603892C00 AMOUNT: (b)(4) CIN 46080001: (b)(4)	2520 HQ000614608	000001 000001
AF: 044411 097 0400 000 N 20112012 D 40603892C00 AMOUNT: (b)(4) CIN 46070001: (b)(4)	2520 HQ000614607	000001 000001
AG: 044411 097 0400 000 N 20112012 D 40603892C00 AMOUNT: (b)(4) CIN 57670001: (b)(4)	2520 HQ000615767	000001 000001
AH: 044411 097 0400 000 N 20112012 D 40603892C00 AMOUNT: (b)(4) CIN HQ0006172040001: (b)(4)	2520 HQ000617204	000001 000001
AJ: 044411 097 0400 000 N 20112012 D 40603892C00 AMOUNT: (b)(4) CIN HQ0006176530001: (b)(4)	2520 HQ000617653	000001 000001
AK: 044411 097 0400 000 N 20112012 D 40603892C00 AMOUNT: (b)(4) CIN 81030001: (b)(4)	2520 HQ000618103	000001 000001
AL: 044411 097 0400 000 N 20112012 D 40603892C00 AMOUNT: (b)(4) CIN 81040001: (b)(4)	2520 HQ000618104	000001 000001
AM: 044411 097 0400 000 N 20112012 D 40603892C00 AMOUNT: (b)(4) CIN 81060001: (b)(4)	2520 HQ000618106	000001 000001
AN: 044411 097 0400 000 N 20112012 D 40603892C00 AMOUNT: (b)(4) CIN 81070001: (b)(4)	2520 HQ000618107	000001 000001
AP: 044411 097 0400 000 N 20112012 D 40603892C00 AMOUNT: (b)(4) CIN 81170001: (b)(4)	2520 HQ000618117	000001 000001

AQ: 044411 097 0400 000 N 20112012 D 40603892C00 2520 HQ000614748 000001 000001
AMOUNT: (b)(4)
CIN 4748000 (b)(4)

AR: 044411 097 0400 000 N 20112012 D 40603892C00 2520 HQ000613930 000001 000001
AMOUNT: (b)(4)
CIN 3930000 (b)(4)

AS: 044411 097 0400 000 N 20112012 D 40603892C00 2520 HQ000619508 000001 000001
AMOUNT: (b)(4)
CIN 9509000 (b)(4)

AT: 044411 097 0400 000 N 20122013 D 2520 XC SPD09_FY12 A5-FY1213 710000 260
AMOUNT: (b)(4)
CIN 10360000 (b)(4)

AU: 044411 097 0400 000 N 20112012 D 40603892C00 2520 HQ000619505 000001 000001
AMOUNT: (b)(4)
CIN HQ000619505000 (b)(4)

AV: 044411 097 0400 000 N 20112012 D 40603892C00 2520 HQ000619507 000001 000000
AMOUNT: (b)(4)
CIN HQ0006195070001 (b)(4)

AW: 044411 097 0400 000 N 20112012 D 2520 XC SPD09 A2-01-FY1112 710000 255
AMOUNT: (b)(4)
CIN HQ00062117810001 (b)(4)

AX: 044411 097 0400 000 N 20122013 D 2520 XC SPD09_FY12 A2-FY1213 710000 251
AMOUNT: (b)(4)
CIN HQ00062120180001 (b)(4)
CIN HQ00062120180002
CIN HQ00062134160001
CIN HQ00062142470001
CIN HQ00062148390001
CIN HQ00062148420001
CIN HQ00062160100001
CIN HQ00062170380001
CIN HQ00062170410001
CIN HQ00062170450001
CIN HQ00062172580001
CIN HQ00062173550001
CIN HQ00062173550002
CIN HQ00062174240001

AY: 044411 097 0400 000 N 20112012 D 2520 XC SP109 A2-FY1112 710000 251
AMOUNT: (b)(4)
CIN HQ00062123770001 (b)(4)

AZ: 044411 097 0400 000 N 20122013 D 2520 XC SPD09_FY12 A3-FY1213 710000 251
AMOUNT: (b)(4)
CIN HQ00062142920001 (b)(4)

BA: 044411 097 0400 000 N 20122013 D 2520 XC SPD09_FY12 A2-FY1213 710000 255
AMOUNT: (b)(4)
CIN HQ00062142560001 (b)(4)
CIN HQ00062194500002
CIN HQ00063290270001
CIN HQ00063290270006
CIN HQ00063290270010
CIN HQ00063290270015
CIN HQ00063290270017
CIN HQ00063295090003

BB: 044411 097 0400 000 N 20122013 D 2520 XC SPB09_FY12 A8-FY1213 710000 251
AMOUNT: (b)(4)
CIN HQ00062172040001 (b)(4)

BC: 044411 097 0400 000 N 20122013 D 2520 XC SPD09_FY12 A5-FY1213 710000 251
AMOUNT: (b)(4)
CIN HQ00062170630001 (b)(4)

BD: 97-11X8242 2862 000 74622 0 065916 2D PJA44 11678009 (b)(4) 065916
AMOUNT: (b)(4)
CIN N0002412MP005790001 (b)(4)

BE: 044411 097 0400 000 N 20122013 D 2520 XC SPD09_FY12 A3-FY1213 710000 255
AMOUNT: (b)(4)
CIN 245120001 (b)(4)
CIN HQ00062194500001 (b)(4)
CIN HQ00062194500003 (b)(4)
CIN HQ00062198670001 (b)(4)
CIN HQ00063295090004 (b)(4)
CIN HQ02763284840001 (b)(4)

BF: 044411 097 0400 000 N 20132014 D 2520 XC SPD09_FY13 A2-FY1314 710000 255
AMOUNT: (b)(4)
CIN HQ00063295710001 (b)(4)
CIN HQ01474385140001 (b)(4)
CIN HQ02763201960003 (b)(4)
CIN HQ02763201960006 (b)(4)
CIN HQ02763201960010 (b)(4)
CIN HQ02763201960015 (b)(4)
CIN HQ02763201960017 (b)(4)

BG: 044411 097 0400 000 N 20132014 D 2520 XC SPD09_FY13 A5-FY1314 710000 255
AMOUNT: (b)(4)
CIN HQ00063295710003 (b)(4)
CIN HQ01474385140003 (b)(4)
CIN HQ02763202460003 (b)(4)
CIN HQ02763281700001 (b)(4)

BH: 044411 097 0100 000 N 20132013 D 2520 2P SPF09_FY13 O3-FY1313 710000 255
AMOUNT: (b)(4)
CIN HQ00063209400001 (b)(4)

BJ: 97-11X8242 2862 000 74622 0 065916 2D PJA3E5009560240 (b)(4)
AMOUNT: (b)(4)
CIN N0002413MP003780001 (b)(4)

BK: 044411 097 0400 000 N 20132014 D 2520 XC SPD09_FY13 A3-FY1314 710000 255
AMOUNT: (b)(4)
CIN 241590001 (b)(4)
CIN HQ00063295710002 (b)(4)
CIN HQ01474385140002 (b)(4)
CIN HQ02763281690001 (b)(4)

BL: 044411 097 0400 000 N 20122013 D 2520 XC SP109_FY12 A0-FY1213 710000 251
AMOUNT: (b)(4)
CIN 241650001 (b)(4)

BM: 044411 097 0400 000 N 20132014 D 2520 XW SPA68_FY13 A2-FY1314 710000 255
AMOUNT: (b)(4)
CIN HQ00063248900001 (b)(4)

BN: 044411 097 0400 000 N 20122013 D 2520 XC SPB09_FY12 A3-FY1213 710000 255
AMOUNT: (b)(4)
CIN HQ00063262510001 (b)(4)

BP: 97-11X8242 2862 000 74622 0 065916 2D PJA344 31358001 (b)(4)
AMOUNT: (b)(4)
CIN N0002413MP006340001 (b)(4)

BQ: 9730400.2520 13 BM 2520 30603274C00 255X S12109 MD3P181A0C0283 320002
AMOUNT: (b)(4)
CIN DO9MLB302830001 (b)(4)

BR: 044411 097 0400 000 N 20122013 D 2520 XC SPD09_FY12 A5-FY1213 710000 255
AMOUNT: (b)(4)
CIN HQ00063276570001: (b)(4)
CIN HQ00063288040001:
CIN HQ00063295090005:
CIN HQ02763284810010:

BS: 97-11X8242 2812 000 74122 0 065916 2D PNEW44 9278S963 (b)(4) 065916
AMOUNT: (b)(4)
CIN N0002413MP007570001 (b)(4)

BT: 9720300 1120 P2008 1007 251B 96LD97 049447 DSAM28565
AMOUNT: (b)(4)
CIN DSAM285650001 (b)(4)

BU: 044411 097 0400 000 N 20122013 D 2520 XC SPB09_FY12 A8-FY1213 710000 255
AMOUNT: (b)(4)
CIN HQ00063290190006 (b)(4)

BV: 044411 097 0400 000 N 20132014 D 2520 XC SPB09_FY13 A8-FY1314 710000 255
AMOUNT: (b)(4)
CIN HQ00063291530006 (b)(4)

BW: 044411 097 0400 000 N 20142015 D 2520 XW_ST68P_FY14 AB-ATX02-FY1415 71AB 255
AMOUNT: (b)(4)
CIN HQ00064318980001 (b)(4)

BX: 044411 097 0400 000 N 20142015 D 2520 XC_SD09P_FY14 AB-DDB08-FY1415 71AB 255
AMOUNT: (b)(4)
CIN HQ02764317740003 (b)(4)
CIN HQ02764317740015
CIN HQ02765420610001

BY: 044411 097 0100 000 N 20142014 D 2520 2P_SO09P_FY14 AB-FXX01-FY1414 71AB 255
AMOUNT: (b)(4)
CIN HQ00064319370001 (b)(4)

BZ: 044411 097 0400 000 N 20142015 D 2520 XC_SX09P_FY14 F1-FXB03-FY1415 71AB 255
AMOUNT: (b)(4)
CIN HQ00064324250001 (b)(4)
CIN HQ00064342340001

CA: 044411 097 0400 000 N 20142015 D 2520 XW_SD68P_FY14 AB-ADX01-FY1415 71AB 255
AMOUNT: (b)(4)
CIN HQ00064327590001 (b)(4)

CB: 97-11X8242 2862 000 74622 0 065916 2D PJA344 10488008 (b)(4) 065916
AMOUNT: (b)(4)
CIN N0002413MP007810001 (b)(4)

CC: 044411 097 0400 000 N 20142015 D 2520 XC_SD09P_FY14 AB-DDB09-FY1415 71AB 255
AMOUNT: (b)(4)
CIN HQ00064342330003 (b)(4)

CD: 97 3 0300 1120 P3008 1007 251A 96LD97 049447 DSAM31377
AMOUNT: (b)(4)
CIN DSAM313770001 (b)(4)

CE: 044411 097 0400 000 N 20152016 D 2520 XC_SD09P_FY15 AG-321XC-FY1516 71AB 255
 AMOUNT: (b)(4)
 CIN HQ0006540900001: (b)(4)

CF: 044411 097 0400 000 N 20152016 D 2520 XC_SX09P_FY15 AG-311XD-FY1516 71AB 255
 AMOUNT: (b)(4)
 CIN HQ0006543866001: (b)(4)

CG: 044411 097 0400 000 N 20142015 D 2520 XW_SD68P_FY14 AB-ADX01-FY1415 71AB 240
 AMOUNT: (b)(4)
 CIN HQ0006545568001: (b)(4)

CH: 044411 097 0400 000 N 20152016 D 2520 XC_SD09P_FY15 AG-321XC-FY1516 71AB 251
 AMOUNT: (b)(4)
 CIN HQ0006545708001: (b)(4)

CJ: 97-11X8242 2812 0007412200659162DPNEW4450908002 (b) 065916
 AMOUNT: (b)(4)
 CIN N0002415MP006090001: (b)(4)

CK: 9750300 1120 P5008 1007 251A 000000 049447 DSAM50876
 AMOUNT: (b)(4)
 CIN DSAM508760001: (b)(4)

CL: 97-11X8242 2812 0007412200659162DPNEW4450908004 (b) 065916
 AMOUNT: (b)(4)
 CIN N0002415MP009100001: (b)(4)

CLAUSES INCORPORATED BY FULL TEXT

G-01 CONTRACT ADMINISTRATION (SEP 2010)

Notwithstanding the Contractor's responsibility for total management during the performance of this contract, the administration of the contract will require maximum coordination between the Government and the Contractor. The following individuals will be the Government points of contact during the performance of this contract:

a. CONTRACTING OFFICERS

All contract administration will be effected by the Procuring Contracting Officer (PCO) or designated Administrative Contracting Officer (ACO). Communication pertaining to the contract administration should be addressed to the Contracting Officer. Contract administration functions (see FAR 42.302 and DFARS 242.302) are assigned to the cognizant contract administration office. No changes, deviations, or waivers shall be effective without a modification of the contract executed by the Contracting Officer or his duly authorized representative authorizing such changes, deviations, or waivers.

The point of contact for all contractual matters is:

Name: (b)(6)
 Organizational Code: MDA/DACG
 Telephone Number: (b)(6)
 E-Mail Address: (b)(6)

b. CONTRACTING OFFICER'S REPRESENTATIVE/CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE

Neither the Contracting Officer's Representative (COR) nor the Contracting Officer's Technical Representative (COTR) is authorized to change any of the terms and conditions of the contract. The Contractor is advised that only the Contracting Officer can change or modify the contract terms or take any other action which obligates the Government. Then, such action must be set forth in a formal modification to the contract. The authority of the COR and the COTR is strictly limited to him/her, without redelegation, to the specific duties set forth in his/her letter of appointment, a copy of which is furnished to the Contractor. Contractors who rely on direction from other than the Contracting Officer, a COR or a COTR acting outside the strict limits of his/her responsibilities as set forth in his/her letter of appointment do so at their own risk and expense. Such actions do not bind the Government contractually. Any contractual questions shall be directed to the Contracting Officer.

The COR under this contract is:

Name: (b)(4)
Organizational Code: MDA/DACG
Telephone Number: (b)(6)
E-Mail Address: (b)(6)

The COTR under this contract is:

Name: (b)(6)
Organizational Code: MDA/AB/B32
Telephone Number: (b)(6)
E-Mail Address: (b)(6)

c. CONTRACTING OFFICIAL FOR eSRS

FAR 52.219-9, Small Business Subcontracting Plan (April 2008) requires the use of the Electronic Subcontracting Reporting System (eSRS) for subcontract reporting. The contracting official for eSRS under this contract is:

Name: TBD
Organizational Code: MDA/XXX
Telephone Number:
E-Mail Address: _____@mda.mil

For detailed information regarding eSRS visit <http://www.acq.osd.mil/dpap/pdi/eb/index.html>.

CLAUSES INCORPORATED BY FULL TEXT

G-05 SUBMISSION OF PAYMENT REQUESTS USING WIDE AREA WORK FLOW – RECEIPT AND ACCEPTANCE (WAWF-RA) (SEP 2009)

a. Requirement for Electronic Payment Requests by WAWF-RA

1. The Contractor shall submit all payment requests electronically in accordance with FAR Part 32. As prescribed in DFARS clause 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports, contractors shall submit all payment requests in electronic form unless the exception in the DFARS clause applies. Paper copies will no longer be processed for payment.

2. To facilitate electronic submission, contractors shall submit all payment requests through the Wide Area Work Flow-Receipt and Acceptance (WAWF-RA) System as described at <http://www.dfas.mil/contractorpay/electroniccommerce/wideareaworkflow.html> using the appropriate Service Acceptor's DoDAAC (MDA/NCR is HQ0006, MDIOC is H95001, MDA/HSV is HQ0147). When using WAWF-RA, the contractor must include the Contracting Officer's Representative's (COR) e-mail in the invoice submission template in order to notify the COR that a WAWF document has been submitted for approval.

3. In accordance with Appendix F of the DFARS, at the time of each delivery of supplies or services under this contract, the contractor shall prepare and furnish to the Government the WAWF-RA electronic form in lieu of a paper copy Material Inspection and Receiving Report (MIRR), DD Form 250.

4. When requesting final payment, the Contractor must establish compliance with all terms of the contract by submitting a Final Receiving Report through WAWF-RA, or Letter of Transmittal, as applicable.

5. The WAWF Training Links are located on the Internet at <http://www.wawftraining.com/> and on the 'live' site at <https://wawf.eb.mil> under "About WAWF".

6. Questions regarding the use of the system are to be directed to the WAWF Help Desk:

DISA DECC Ogden
Electronic Business Service Desk
CONUS ONLY: 1-866-618-5988
COMMERCIAL: 801-605-7095
DSN: 338-7095
FAX COMMERCIAL: 801-605-7453
FAX DSN: 388-7453
cscassig@csd.disa.mil

b. Submission of Invoices under Fixed Price Type Contracts

1. "Invoice" as used in this paragraph does not include the contractor's requests for progress payments.

2. The use of WAWF-RA electronic form and invoice are in accordance with DFARS Appendix F.

3. In addition to the requirements of the Prompt Payment clause of the contract, the contractor shall cite on each invoice the contract line item (CLIN); the contract subline item number (SUBCLIN), if applicable; the accounting classification reference number (ACRN), and the payment terms.

4. The contractor shall prepare either:

a separate invoice for each activity designated to receive the supplies or services; or,

a consolidated invoice covering all shipments delivered under an individual order.

5. If acceptance is at origin, the contractor shall submit the WAWF-RA electronic form or other acceptance verification directly to the designated payment office.

6. If acceptance is at destination, the consignee will forward acceptance verification to the designated payment office.

OR

b. Submission of Vouchers under Time and Materials and Cost Type Contracts

1. Contractors approved under the Defense Contract Audit Agency's (DCAA) direct billing program may submit the first and subsequent interim vouchers directly to the disbursing office. Contractors participating in the direct billing program must provide a copy of the first interim voucher to the cognizant DCAA office within 5 days of its submission to the disbursing office.

2. Upon written notification to the contractor, DCAA may rescind the direct submission authority. Upon receipt of the notice to rescind the direct submission authority, the contractor will immediately begin to submit invoices for the affected contracts to DCAA.

3. When authorized by the DCAA in accordance with DFARS 242.803(b) (i) (C), the contractor may submit interim payment requests. Such authorization does not extend to the first and final vouchers. Vouchers requesting interim payments shall be submitted no more than once every two weeks. For indefinite delivery type contracts, interim payment requests shall be submitted no more than once every two weeks for each delivery order. There shall be a lapse of no more than 90 calendar days between performance and submission of an interim payment request.

4. The contractor agrees to segregate costs incurred under this contract at the level of performance, either task or subtask, or CLIN or SUBCLIN, rather than on a total contract basis, and to submit vouchers reflecting costs incurred at that level. Vouchers shall contain summaries of work charged during the period covered, as well as overall cumulative summaries for all work invoiced to date, by line item, subline item, task or subtask. Delivery orders will be segregated by individual order.

5. Prior to final voucher submission, the contractor must submit the final report/final deliverable to the contracting officer's representative (COR) for approval. The COR will provide to the contractor an e-mail stating acceptance of the final report/final deliverable. The contractor must attach the approval to the final voucher in WAWF and forward to the cognizant DCAA office and ACO for approval.

CLAUSES INCORPORATED BY FULL TEXT

G-06 ALLOTMENT OF FUNDS (MAY 2005)

Pursuant to FAR 52.232-22, "Limitation of Funds," the total amount of funds presently available for payment and allotted to this contract (which covers all items, including fee payable), and the estimated period of performance said funds cover, are as follows see; Attachment 16 Allotment of Funds Table.

CLAUSES INCORPORATED BY FULL TEXT

G-07 PAYMENT INSTRUCTIONS FOR MULTIPLE ACCOUNTING CLASSIFICATION CITATIONS (APR 2009)

CLIN(s) 0001 through 0021 may be funded by multiple accounting classifications. The Contractor shall segregate cost and submit vouchers as required by provision G-05, Submission of Payment Requests Using Wide Area Work Flow – Receipt and Acceptance (WAWF-RA). The Defense Finance and Accounting Service (DFAS) shall make payments from those Accounting Classification Record Numbers (ACRNs) assigned each CLIN as described in provision G-09, Accounting and Appropriation Data.

CLAUSES INCORPORATED BY FULL TEXT

G-10 SEGREGATION OF COSTS (MAY 2005)

For CLIN(s) 0003, 0017 and their respective Option CLINs, vouchers shall contain actual hours and costs by cost element (cost elements shall be at the lowest level of identification/ discrimination consistent with the Contractor's cost accounting system) and overall cumulative summaries of all work vouchered to date.

Section H - Special Contract Requirements

DOWNWARD RATE ADJUSTMENT

DOWNWARD ADJUSTMENT CLAUSE: Pending Forward Pricing Rate Agreement (FPRA) (DACG/Dec 2011)

a. The negotiated cost and fee for the SM-3 Block IB effort is subject to a downward adjustment, if applicable, in accordance with the conditions set forth herein. The parties agreed on 2 December 2011 to the Negotiated Estimated Cost amount of (b)(4) and the Negotiated Fee amount of (b)(4) for a total Negotiated Cost and fee of (b)(4) which is subject to the terms of this clause. This clause will be applicable to the entire contract exclusive of CLIN 0003. CLIN 0003 values were established under the definitization modification PZ0001.

b. This clause shall apply to the contractor's indirect rates and direct labor rates used in arriving at the Negotiated Cost and Fee for the SM-3 IB development effort. When finalized, DCMA will furnish the PCO with a copy of the DCMA Forward Pricing Rate Agreement (FPRA) with Raytheon for indirect rates and direct labor rates. The government will utilize the pricing files established in the 2 December 2011 negotiations settlement and the Raytheon FPRA indirect rates and direct labor rates to calculate revised cost and fee amounts. The government will substitute the negotiated direct labor and indirect rates with the FPRA direct labor and indirect rates to calculate the revised cost amounts, and apply the originally negotiated fee percent to the revised cost to derive the revised fee amounts.

c. In the event the revised cost and fee calculated as discussed in paragraph b. of this clause are less than the negotiated cost and fee, the total dollar amount for this modification shall be adjusted downward to reflect the revised cost and fee derived from the changes in the indirect rates and direct labor rates, exclusive of CLIN 0003. The contract shall be modified in writing accordingly to reflect such adjustment and the deletion of this provision in its entirety.

d. In the event the revised cost and fee calculated as discussed in paragraph b. of this clause exceed the negotiated cost and fee, no adjustment will occur. The contract shall be modified in writing to delete this provision in its entirety.

e. This adjustment will be made on a one time basis only.

CLAUSES INCORPORATED BY REFERENCE

H-AEGIS-01

LEVEL OF EFFORT

FEB 2011

CLAUSES INCORPORATED BY FULL TEXT

H-06 INSURANCE (Apr 2009)

In accordance with FAR Part 28.307-2, the Contractor shall maintain the types of insurance and coverage listed below:

TYPES OF INSURANCE

MINIMUM AMOUNT

Workmen's Compensation and all occupational disease
Employer's Liability including all occupational disease

As required by Federal and State law
\$100,000 per accident

when not covered by Workmen's Compensation above

General Liability (Comprehensive) Bodily Injury	\$500,000 per occurrence
Automobile Liability (Comprehensive)	
Bodily Injury per person	\$200,000
Bodily Injury per accident	\$500,000
Property Damage per accident	\$ 20,000

CLAUSES INCORPORATED BY FULL TEXT

H-08 PUBLIC RELEASE OF INFORMATION (APR 2009)

- a. The policies and procedures outlined herein apply to information submitted by the Contractor and his subcontractors for approval for public release. Prior to public release, all information shall be cleared as shown in the "National Industrial Security Program Operations Manual" (DoD 5220.22-M). At a minimum, these materials may be technical papers, presentations, articles for publication and speeches or mass media material, such as press releases, photographs, fact sheets, advertising, posters, compact discs, videos, etc.
- b. All materials which relate to the work performed by the contractor under this contract shall be submitted to MDA for review and approval prior to release to the public. Subcontractor public information materials shall be submitted for approval through the prime contractor to MDA.
- c. The MDA review and approval process for contractors working under an MDA contract starts with the contracting officer's representative (COR).
 - (1) The contractor shall request a copy of MDA form "Security and Policy Review Worksheet for Public Release Review" (.pdf format) or any superseding form from the MDA.
 - (2) The contractor shall complete Blocks 1, 2, 3 and 6 of Worksheet (or comply with the instructions of any superseding form) and submit it with materials to be cleared to the COR (see paragraph j. below). If the information was previously cleared, provide the Public Release Case Number if available and a copy of the previous document highlighting the updated information.
 - (3) The COR may affirm "public releaseability" by signing the Statement of Certification in Block 7 of the Worksheet.
 - (4) The COR will forward the Worksheet with the materials to be cleared to the MDA designated point of contact for Block 8 approval and submission of package to MDA/PA.
 - (5) The COR will notify the contractor of the agency's final decision regarding the status of the request.
- d. The contractor shall submit the following to the COR at least 60 days in advance of the proposed release date:
 - (1) Security and Policy Review Worksheet and one (1) electronic copy of the material to be reviewed..
 - (2) Written statement, including:
 - (a) To whom the material is to be released
 - (b) Desired date for public release
 - (c) Statement that the material has been reviewed and approved by officials of the contractor or the subcontractor, for public release, and
 - (d) The contract number.

- e. The items submitted must be complete. Photographs shall have captions.
- f. Outlines, rough drafts, marked-up copy (with handwritten notes), incorrect distribution statements, FOUO information, export controlled or ITAR information will not be accepted or cleared.
- g. Abstracts or abbreviated materials may be submitted if the intent is to determine the feasibility of going further in preparing a complete paper for clearance. However, clearance of abstracts or abbreviated materials does not satisfy the requirement for clearance of the entire paper.
- h. The MDA Director of Public Affairs (MDA/PA) is responsible for coordinating the public release review. MDA/PA will work directly with the COR if there are questions or concerns regarding submissions. MDA/PA will not work with contractors who have not gone through their COR.
- i. Once information has been cleared for public release, it is in the public domain and shall always be used in its originally cleared context and format. Information previously cleared for public release but containing new, modified or further developed information must be submitted again for public release following the steps outlined in items a. through h. above.
- j. Due to time and screening constraints, it is recommended that all "public release" packages submitted to MDA be forwarded by a commercial overnight delivery service, addressed as follows:

Missile Defense Agency/AB
Attention: (b)(6) Contracting Officer's Representative
17211 Avenue D Suite 160
Dahlgren, VA 22448-5154

CLAUSES INCORPORATED BY FULL TEXT

H-10 ENABLING CLAUSE FOR BMD INTERFACE SUPPORT (APR 2009)

- a. It is anticipated that, during the performance of this contract, the Contractor will be required to support Technical Interface/Integration Meetings (TIMS) with other Ballistic Missile Defense (BMD) Contractors and other Government agencies. Appropriate organizational conflicts of interest clauses and additional costs, if any, will be negotiated as needed to protect the rights of the Contractor and the Government.
- b. Interface support deals with activities associated with the integration of the requirements of this contract into BMD system plans and the support of key Missile Defense Agency (MDA) program reviews.
- c. The Contractor agrees to cooperate with BMD Contractors by providing access to technical matters, provided, however, the Contractor will not be required to provide proprietary information to non-Government entities or personnel in the absence of a non-disclosure agreement between the Contractor and such entities.
- d. The Contractor further agrees to include a clause in each subcontract requiring compliance with paragraph c. above, subject to coordination with the Contractor. This agreement does not relieve the Contractor of its responsibility to manage its subcontracts effectively, nor is it intended to establish privity of contract between the Government and such subcontractors.
- e. Personnel from BMD Contractors or other Government agencies or Contractors are not authorized to direct the Contractor in any manner.

f. This clause shall not prejudice the Contractor or its subcontractors from negotiating separate organizational conflict of interest agreements with BMD Contractors; however, these agreements shall not restrict any of the Government's rights established pursuant to this clause or any other contract.

CLAUSES INCORPORATED BY FULL TEXT

H-11 MDA VISIT AUTHORIZATION PROCEDURES (APR 2009)

a. The Contractor shall submit all required visit clearances in accordance with current NISPOM regulations and will forward all visit requests, identifying the contract number, to:

Missile Defense Agency,
Security Operations Center
7100 Defense Pentagon
Washington, DC 20301-7100
Telephone No.: (703) 697-8204 Facsimile No.: (703) 693-1526

b. The COR is authorized to approve visit requests for the Contracting Officer.

CLAUSES INCORPORATED BY FULL TEXT

H-12 CONTROL OF ACCESS TO MDA SPACES AND INFORMATION SYSTEMS (MAY 2005)

a. To maintain the security of the MDA spaces and information systems, the Contractor shall notify the COR in writing whenever a prime or subcontractor employee included on the current Visit Authorization Request/Letter no longer supports this contract. This requirement shall apply to both Contractor and employee initiated termination of services and to temporary suspension of services.

b. The contractor will cooperate with COR in taking the following actions (facilitating the employee's return of all badges, keycards, and passes). Specifically, upon notification, the COR will work with the Technical Area Security Officer (TASO)/Office Security Manager (OSM) to ensure timely action to:

- (1) remove the employee from the current Visit Authorization Request/Letter;
- (2) cancel the MDA badge, keycard and Pentagon Pass issued pursuant to the Visit Authorization Request/Letter; and
- (3) terminate the MDA LAN account/access privileges.

c. The contractor shall identify the reason for and date of termination or expected period of suspension and submit the notification to the COR within five (5) working days prior to service discontinuation. For unplanned termination or suspension of services, notification shall be made on the same working day as the termination/suspension action.

CLAUSES INCORPORATED BY FULL TEXT

H-15 EXERCISE OF OPTIONS (MAY 2005)

Any option under this contract shall be exercised by a unilateral contract modification signed by the Contracting Officer. Specific contract line items or sub-line items delineating a description of the supplies or services, quantity requirements, and a corresponding delivery schedule for the exercised options shall be identified in the unilateral contract modification. The Government may exercise from time to time, either in whole or in part, some or all the option line items. An option shall be exercised by issuance, within 30 days prior to the end of the current contract period, of a unilateral modification for the subsequent option requirements.

CLIN	Period of Performance
0006	14-MAR-2012 – 30-SEP-2015
0019	21-MAR-2012 – 30-SEP-2015
TBD	TBD
TBD	TBD

CLAUSES INCORPORATED BY FULL TEXT

H-31 TECHNICAL COGNIZANCE (Nov 2010)

a The MDA/AB/B32 is the cognizant Government technical organization for this contract and will provide technical instruction as defined herein. Technical instructions shall be exercised by designated/appointed Contracting Officer Technical Representatives (COTRs):

Title/Position	Authority	Office Symbol
To Be Included at Contract Award		

b. Technical instruction, as defined in this clause is the process by which the progress of the Contractor’s technical efforts are reviewed and evaluated and guidance for the continuation of the effort is provided by the Government. It also includes technical discussions and, to the extent required and specified elsewhere in this contract, defining interfaces between contractors; approving plans; approving Contract Data Requirements List (CDRL) submissions; approving schedules for preliminary and critical design reviews; participating in meetings; providing technical and management information; and responding to request for research and development planning data on all matters pertaining to this contract. The Contractor agrees to accept technical instruction only in the form and procedure set forth herein below.

c. Except for routine discussions having an impact on Contractor performance, technical instruction described above shall only be authorized and binding on the Contractor if provided in writing from the applicable Government official designated above. The technical instruction shall refer to the applicable paragraph(s) of the Task Order (TO) and shall not effect or result in a change within the meaning of the “CHANGES” clause, or any other change in the TO, price, schedule, or the level of effort required by the contract. All changes affecting price, schedule, terms and conditions must be executed by the PCO as appropriate. It is emphasized that such changes are outside the authority of the Government officials designated above. These individuals are not authorized to issue any instruction which authorizes the Contractor to either exceed or perform less than the contract requirements. Notwithstanding any provision to the contrary in any technical instruction, the estimated cost of this contract, and, if this contract is incrementally funded, the amount of funds allotted, shall not be increased or deemed to be increased by issuance thereof.

d. A COTR serves as a technical liaison for technical aspects of the contract and maintains direct communications with both the Contractor and the PCO. A COTR provides surveillance and monitoring of Contractor performance and may provide technical instruction as specified above or as otherwise limited or

specified in the appointment or in the contract. A COTR's designation cannot be redelegated unless authorized in writing by the PCO.

e. Government personnel, Government Contractor Support Services (CSS) contractors and Federally Funded Research and Development Companies (FFRDCs) personnel will frequently be present at Integrated Product Team (IPT) meetings and Contractor facilities. The Government IPT members, their CSS support and FFRDCs may communicate with the Contractor on technical issues; review designs/documents/work products; and provide clarification, opinion, and advice on contract requirements. The Contractor shall not construe advice, opinions, reviews, and clarifications from the Government IPT members, their CSS support or FFRDCs as changes to the terms and conditions of the contract. A PCO is the only individual authorized to change the terms and conditions of the contract.

CLAUSES INCORPORATED BY FULL TEXT

H-32 TRANSITION OUT (Nov 2010)

a. It is the intent of the Government to provide for an orderly transition during an off-ramp activity related to the end of the contract in order to assure uninterrupted effort throughout the assumption of follow-on Contractor responsibility. When notified, the Contractor shall work closely with the Government to develop a proposal to transition to either the Government or another contractor. The Government will provide the specifics of what the transition includes at the time of the request for change.

b. The transition requirements may include the following:

1) A transition-out period, which will be mutually agreed upon following notification by the Government of an intent to transfer lab equipment, documentation or system test resources.

2) A requirement for the Contractor to work closely with the contractor receiving the lab(s), equipment, and supporting documentation during the transition-out period to allow the receiving contractor time to establish laboratory capability.

c. The Contractor shall execute an Associate Contractor Agreement (ACA) IAW Section H Clause "PROGRAM SYNCHRONIZATION", attend program reviews, participate in working groups, briefings, and on-site communications, and provide full disclosure of technical, cost, and programmatic information between Contractors/teams associated with meeting the various on-going requirements.

CLAUSES INCORPORATED BY FULL TEXT

H-35 INCORPORATING COMMERCIAL AND OPEN SOURCE SOFTWARE (Nov 2010)

a. DFARS 252.227-7014(d) requires the written approval of the PCO before the Contractor may incorporate any copyrighted computer software in the software to be delivered under this contract.

b. A request for approval to incorporate Commercial Computer Software should be accompanied by a license that conforms with the requirements of the Commercial Computer Software Licenses clause of this contract.

c. A request for approval to incorporate Open Source Software must be accompanied by the applicable license, a detailed description of the source of the software and how it has been or will be used, and a legal analysis of the restrictions imposed and potential risks and liabilities.

d. Nothing in this clause shall take precedence over any other clause or provision of this contract. Government concurrence, as defined in paragraph a above, does not in any way affect the Government's technical data rights as established by the terms and conditions of this contract.

CLAUSES INCORPORATED BY FULL TEXT

H-43 IMPACT OF GOVERNMENT TEAM PARTICIPATION/ACCESS (JUN 2012)

The Government/Contractor organizational/interface approach (e.g., Integrated Product Teams, Team Execution Reviews, Technical Interchange Meetings, and/or Working Groups), will require frequent, close interaction and/or surveillance between the Government and Contractor/subcontractor team members during contract performance. For this purpose the Contractor, recognizing its privity of contract with the Government, authorizes the Government to communicate directly with, and where appropriate visit as well as monitor, the Contractor's subcontractors. This access/interface is necessary to support the Government's quality and program management approach which emphasizes systematic surveillance and evaluation techniques used to assess Contractor /subcontractor performance. Government team members may offer advice, information, support, and facilitate rapid Government feedback on team-related products, provide clarification, and review Contractor/subcontractor progress; however, the responsibility and accountability for successfully accomplishing the requirements of this contract remain solely with the Contractor. Neither the Contractor nor the subcontractor shall construe such advice, surveillance, reviews and clarifications by Government team members as Government-directed changes to the terms of this contract. The PCO is the only individual authorized to direct or approve any change to the terms of this contract.

INFO/DATA FURNISHED BY GOV'T

(a) Government Furnished Information (GFI), attached hereto, incorporates by listing or specific reference, all the data or information which the Government has provided or will provide to the Contractor except for:

-

(1) The specifications set forth in Section C, and

(2) Government specifications, including drawings and other Government technical documentation which are referenced directly or indirectly in the specifications set forth in Section C and which are applicable to this contract as specifications, and which are generally available and provided to Contractors or prospective Contractors upon proper request, such as Federal or Military Specifications, and Standard Drawings, etc.

(b) Except for the specifications referred to in subparagraphs (a)(1) and (2) above, the Government will not be obligated to provide to the Contractor any specification, drawing, technical documentation or other publication which is not listed or specifically referenced in Schedule C, as applicable, notwithstanding anything to the contrary in the specifications, the publications listed or specifically referenced in Schedule C, as applicable, the clause entitled "GOVERNMENT PROPERTY" (FAR 52.245-1) or "GOVERNMENT PROPERTY INSTALLATION OPERATION SERVICES " (FAR 52.245-2), as applicable, or any other

term or condition of this contract.

(c)(1) The Contracting Officer may at any time by written order:

(i) delete, supersede, or revise, in whole or in part, data listed or specifically referenced in Schedule C, as applicable; or

(ii) add items of data or information to Schedule C, as applicable; or

(iii) establish or revise due dates for items of data or information in Schedule C, as applicable.

(2) If any action taken by the Contracting Officer pursuant to subparagraph (c)(1) immediately above causes an increase or decrease in the costs of, or the time required for, performance of any part of the work under this contract, the contractor may be entitled to an equitable adjustment in the contract amount and delivery schedule in accordance with the procedures provided for in the "CHANGES" clause of this contract.

OCI

ORGANIZATIONAL CONFLICT OF INTEREST

a. Purpose: The primary purpose of this clause is to aid in ensuring that:

(1) the Contractor's objectivity and judgment are not biased because of its present or planned interests which relate to work under this contract;

(2) the Contractor does not obtain unfair competitive advantage by virtue of its access to non-public information regarding the Government's program plans and actual or anticipated resources; and

(3) the Contractor does not obtain unfair competitive advantage by virtue of its access to proprietary information belonging to others.

b. Scope: Organizational Conflict of Interest (OCI) rules, procedures and responsibilities as described in FAR Subpart 9.5 shall be applicable to this contract and any resulting subcontracts.

(1) The general rules in FAR 9.505-1 through 9.505-4 and the restrictions described herein shall apply to performance or participation by the Contractor and any of its affiliates or their successors-in-interest (hereinafter collectively referred to as "Contractor") in the activities covered by this contract as prime Contractor, subcontractor, co-sponsor, joint venturer, consultant, or in any similar capacity.

(2) The Missile Defense Agency's OCI policy is in Attachment 13 of this contract.

c. Access to and Use of Government Information: If the Contractor in performing this contract obtains access to non-public information regarding the Government's program plans and actual or anticipated resources or to proprietary information belonging to others, the Contractor agrees that, without prior written approval of the Contracting Officer, it shall not release such information or use it:

(1) for any non-Government purpose;

(2) to compete for work prior to it being released or made available to the public or other offerors; or

(3) to submit an unsolicited proposal to the Government

d. Access to and Protection of Proprietary Information: The Contractor agrees to treat proprietary data in accordance with the provisions of FAR 9.505-4. The Contractor shall enter into a written agreement for the protection of the proprietary data of others and exercise diligent effort to protect such proprietary data from unauthorized use or disclosure.

e. Subcontracts: Within ninety (90) days, the Contractor shall include this clause in consulting agreements, teaming agreements, subcontracts, or other arrangements for provision of services or supplies for first and second tier non-COTS suppliers. In the event that a subcontractor takes exception to this clause, the Contracting Officer shall be notified of the potential impact and the recommended solution. The terms "contract", "Contractor", and "Contracting Officer" shall be appropriately modified to preserve the Government's rights. Within two (2) business days of contract award, the contractor shall provide a copy of this clause to all its 1st tier entities, including other business units, with whom it has a consulting agreement, teaming agreement, subcontract, or other arrangement for provision of services or supplies.

f. Representations and Disclosures:

(1) The Contractor represents that it has disclosed to the Contracting Officer, prior to award, all facts relevant to the existence or potential existence of organizational conflicts of interest as that term is used in FAR Subpart 9.5. To facilitate disclosure and Contracting Officer approval, the Contractor shall complete an OCI Analysis/Disclosure Form for each MDA, Ballistic Missile Defense (BMD), and BMD-related contract or subcontract (form shall be requested from the Procuring Contracting Officer).

(2) The Contractor represents that if it discovers an organizational conflict of interest or potential conflict of interest after award, a prompt and full disclosure shall be made in writing to the Contracting Officer. This disclosure shall include a description of the action the Contractor has taken or proposes to take in order to avoid or mitigate such conflicts.

g. Remedies and Waiver:

(1) For breach of any of the above restrictions or for non-disclosure or misrepresentation of any relevant facts required to be disclosed concerning this contract, the Government may terminate this contract for default, disqualify the Contractor from subsequent related contractual efforts, and pursue such other remedies as may be permitted by law or this contract. If, however, in compliance with this clause, the Contractor discovers and promptly reports an organizational conflict of interest (or the potential thereof) subsequent to contract award, the Contracting Officer may terminate this contract for convenience if such termination is deemed to be in the best interest of the Government or take other appropriate actions.

(2) The parties recognize that this clause has potential effects which will survive the performance of this contract and that it is impossible to foresee each circumstance to which it might be applied in the future. Accordingly, the Contractor may at any time seek a waiver from the Director, MDA, (via the Contracting Officer) by submitting a full written description of the requested waiver and the reasons in support thereof.

h. Government Indemnity: The Contractor shall hold the Government harmless and indemnify the Government as to any cost or loss resulting from the unauthorized use or disclosure of third party information data or software by the Contractor, its employees, subcontractors or agents provided the information, data or software contains proprietary markings or the Contractor has been advised that it is proprietary.

Section I - Contract Clauses

CLAUSES INCORPORATED BY REFERENCE

52.246-11	Higher-Level Contract Quality Requirement	DEC 2014
252.245-7004	Reporting, Reutilization, and Disposal	MAR 2015
252.245-7003	Contractor Property Management System Administration	APR 2012
252.245-7002	Reporting Loss of Government Property	APR 2012
252.245-7001	Tagging, Labeling, and Marking of Government-Furnished Property	APR 2012

CURRENT FAC AND DCN

The following FAR and DFAR Clauses incorporate the latest Federal Acquisition Circular number 2005-48 & 49 dated January 12, 2011 and the latest DFARS Change Notice # 20110112 dated January 12, 2011.

CLAUSES INCORPORATED BY REFERENCE

52.202-1	Definitions	JUL 2004
52.203-3	Gratuities	APR 1984
52.203-5	Covenant Against Contingent Fees	APR 1984
52.203-6	Restrictions On Subcontractor Sales To The Government	SEP 2006
52.203-7	Anti-Kickback Procedures	OCT 2010
52.203-8	Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity	JAN 1997
52.203-10	Price Or Fee Adjustment For Illegal Or Improper Activity	JAN 1997
52.203-12	Limitation On Payments To Influence Certain Federal Transactions	OCT 2010
52.203-13	Contractor Code of Business Ethics and Conduct	APR 2010
52.203-14	Display of Hotline Poster(s)	DEC 2007
52.204-2	Security Requirements	AUG 1996
52.204-4	Printed or Copied Double-Sided on Recycled Paper	AUG 2000
52.204-7	Central Contractor Registration	APR 2008
52.204-10	Reporting Executive Compensation and First-Tier Subcontract Awards	JUL 2010
52.209-6	Protecting the Government's Interest When Subcontracting With Contractors Debarred, Suspended, or Proposed for Debarment	DEC 2010
52.211-1	Availability of Specifications Listed in the GSA Index of Federal Specifications, Standards and Commercial Item Descriptions, FPMR Part 101-29	AUG 1998
52.211-5	Material Requirements	AUG 2000
52.211-15	Defense Priority And Allocation Requirements	APR 2008
52.215-2	Audit and Records--Negotiation	OCT 2010
52.215-8	Order of Precedence--Uniform Contract Format	OCT 1997
52.215-9 Alt II	Changes or Additions to Make-or-Buy Programs (Oct 1997) - Alternate II	OCT 2010
52.215-10	Price Reduction for Defective Certified Cost or Pricing Data	OCT 2010
52.215-11	Price Reduction for Defective Certified Cost or Pricing Data--Modifications	OCT 2010

52.215-12	Snbcontractor Certified Cost or Pricing Data	OCT 2010
52.215-13	Snbcontractor Certified Cost or Pricing Data--Modifications	OCT 2010
52.215-14	Integrity of Unit Prices	OCT 2010
52.215-14 Alt I	Integrity of Unit Prices (Oct 2010) - Alternate I	OCT 1997
52.215-15	Pension Adjntments and Asset Reversions	OCT 2010
52.215-16	Facilities Capital Cost of Money	JUN 2003
52.215-18	Reversion or Adjustment of Plans for Postretirement Benefits (PRB) Other than Pensions	JUL 2005
52.215-21	Requirements for Certified Cost or Pricing Data or Information Other Than Certified Cost or Pricing Data--Modifications	OCT 2010
52.216-7	Allowable Cost And Payment	DEC 2002
52.217-9	Option To Extend The Term Of The Contract	MAR 2000
52.219-8 (DEV)	Utilization of Small Business Concerns (DEVIATION)	MAY 2004
52.219-9	Small Business Subcontracting Plan	JAN 2011
52.219-16	Liquidated Damages-Subcontracting Plan	JAN 1999
52.222-3	Convict Labor	JUN 2003
52.222-4	Contract Work Hours and Safety Standards Act - Overtime Compensation	JUL 2005
52.222-19	Child Labor -- Cooperation with Authorities and Remedies	JUL 2010
52.222-21	Prohibition Of Segregated Facilities	FEB 1999
52.222-26	Equal Opportunity	MAR 2007
52.222-35	Equal Opportunity For Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans	SEP 2010
52.222-36	Affirmative Action For Workers With Disabilities	OCT 2010
52.222-37	Employment Reports on Veterans	SEP 2010
52.222-50	Combating Trafficking in Persons	FEB 2009
52.223-6	Drug-Free Workplace	MAY 2001
52.223-14	Toxic Chemical Release Reporting	AUG 2003
52.223-16 Alt I	IEEE 1680 Standard for the Environmental Assessment of Personal Computer Products (Dec 200&0 Alternate I	DEC 2007
52.225-8	Duty-Free Entry	OCT 2010
52.225-13	Restrictions on Certain Foreign Purchases	JUN 2008
52.226-1	Utilization Of Indian Organizations And Indian-Owned Economic Enterprises	JUN 2000
52.227-1	Authorization and Consent	DEC 2007
52.227-1 Alt I	Authorization And Consent (Dec 2007) - Alternate I	APR 1984
52.227-2	Notice And Assistance Regarding Patent And Copyright Infringement	DEC 2007
52.227-10	Filing Of Patent Applications--Classified Subject Matter	DEC 2007
52.227-21	Technical Data Certification, Revision, and Withholding of Payment--Major Systems	DEC 2007
52.228-7	Insurance--Liability To Third Persons	MAR 1996
52.230-2	Cost Accounting Standards	OCT 2010
52.230-3	Disclosure And Consistency Of Cost Accounting Practices	OCT 2008
52.230-6	Administration of Cost Accounting Standards	JUN 2010
52.232-9	Limitation On Withholding Of Payments	APR 1984
52.232-17	Interest	OCT 2010
52.232-18	Availability Of Funds	APR 1984
52.232-20	Limitation Of Cost	APR 1984
52.232-22	Limitation Of Funds	APR 1984
52.232-23 Alt I	Assignment of Claims (Jan 1986) - Alternate I	APR 1984
52.232-25 Alt I	Prompt Payment (Oct 2008) Alternate I	FEB 2002
52.232-33	Payment by Electronic Funds Transfer--Central Contractor Registration	OCT 2003

52.233-1	Disputes	JUL 2002
52.233-1 Alt I	Disputes (Jul 2002) - Alternate I	DEC 1991
52.233-3 Alt I	Protest After Award (Aug 1996) - Alternate I	JUN 1985
52.233-4	Applicable Law for Breach of Contract Claim	OCT 2004
52.242-1	Notice of Intent to Disallow Costs	APR 1984
52.242-3	Penalties for Unallowable Costs	MAY 2001
52.242-4	Certification of Final Indirect Costs	JAN 1997
52.242-13	Bankruptcy	JUL 1995
52.243-2 Alt V	Changes--Cost-Reimbursement (Aug 1987) - Alternate V	APR 1984
52.243-6	Change Order Accounting	APR 1984
52.243-7	Notification Of Changes	APR 1984
52.244-2	Subcontracts	OCT 2010
52.244-5	Competition In Subcontracting	DEC 1996
52.244-6	Subcontracts for Commercial Items	DEC 2010
52.245-1	Government Property	AUG 2010
52.245-9	Use And Charges	AUG 2010
52.246-23	Limitation Of Liability	FEB 1997
52.246-24	Limitation Of Liability--High-Value Items	FEB 1997
52.247-1	Commercial Bill Of Lading Notations	FEB 2006
52.247-64	Preference for Privately Owned U.S. - Flag Commercial Vessels	FEB 2006
52.247-68	Report of Shipment (REPSHIP)	FEB 2006
52.248-1	Value Engineering	OCT 2010
52.249-6	Termination (Cost Reimbursement)	MAY 2004
52.249-14	Excusable Delays	APR 1984
52.253-1	Computer Generated Forms	JAN 1991
252.201-7000	Contracting Officer's Representative	DEC 1991
252.203-7000	Requirements Relating to Compensation of Former DoD Officials	JAN 2009
252.203-7001	Prohibition On Persons Convicted of Fraud or Other Defense-Contract-Related Felonies	DEC 2008
252.203-7002	Requirement to Inform Employees of Whistleblower Rights	JAN 2009
252.204-7003	Control Of Government Personnel Work Product	APR 1992
252.204-7004 Alt A	Central Contractor Registration (52.204-7) Alternate A	SEP 2007
252.204-7005	Oral Attestation of Security Responsibilities	NOV 2001
252.204-7008	Export-Controlled Items	APR 2010
252.205-7000	Provision Of Information To Cooperative Agreement Holders	DEC 1991
252.208-7000	Intent To Furnish Precious Metals As Government--Furnished Material	DEC 1991
252.209-7004	Subcontracting With Firms That Are Owned or Controlled By The Government of a Terrorist Country	DEC 2006
252.211-7000	Acquisition Streamlining	OCT 2010
252.211-7007	Reporting of Government-Furnished Equipment in the DoD Item Unique Identification (IUID) Registry	NOV 2008
252.215-7000	Pricing Adjustments	DEC 1991
252.215-7002	Cost Estimating System Requirements	DEC 2006
252.215-7004	Excessive Pass-Through Charges	MAY 2008
252.219-7004	Small Business Subcontracting Plan (Test Program)	OCT 2010
252.223-7002	Safety Precautions For Ammunition And Explosives	MAY 1994
252.223-7004	Drug Free Work Force	SEP 1988
252.223-7006	Prohibition On Storage And Disposal Of Toxic And Hazardous Materials	APR 1993
252.225-7001	Buy American Act And Balance Of Payments Program	JAN 2009
252.225-7002	Qualifying Country Sources As Subcontractors	APR 2003

252.225-7004	Report of Intended Performance Outside the United States and Canada--Submission after Award	OCT 2010
252.225-7012	Preference For Certain Domestic Commodities	JUN 2010
252.225-7013	Duty-Free Entry	DEC 2009
252.225-7015	Restriction on Acquisition of Hand Or Measuring Tools	JUN 2005
252.225-7016	Restriction On Acquisition Of Ball and Roller Bearings	DEC 2010
252.225-7025	Restriction on Acquisition of Forgings	DEC 2009
252.225-7048	Export-Controlled Items	JUN 2013
252.226-7001	Utilization of Indian Organizations and Indian-Owned Economic Enterprises, and Native Hawaiian Small Business Concerns	SEP 2004
252.227-7013	Rights in Technical Data--Noncommercial Items	NOV 1995
252.227-7014	Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation	JUN 1995
252.227-7016	Rights in Bid or Proposal Information	JUN 1995
252.227-7019	Validation of Asserted Restrictions--Computer Software	JUN 1995
252.227-7026	Deferred Delivery Of Technical Data Or Computer Software	APR 1988
252.227-7027	Deferred Ordering Of Technical Data Or Computer Software	APR 1988
252.227-7030	Technical Data--Withholding Of Payment	MAR 2000
252.227-7038	Patent Rights--Ownership by the Contractor (Large Business)	DEC 2007
252.227-7039	Patents--Reporting Of Subject Inventions	APR 1990
252.231-7000	Supplemental Cost Principles	DEC 1991
252.232-7003	Electronic Submission of Payment Requests and Receiving Reports	MAR 2008
252.232-7010	Levies on Contract Payments	DEC 2006
252.233-7001	Choice of Law (Overseas)	JUN 1997
252.239-7000	Protection Against Compromising Emanations	JUN 2004
252.239-7001	Information Assurance Contractor Training and Certification	JAN 2008
252.242-7003	Application For U.S. Government Shipping Documentation/Instructions	DEC 1991
252.242-7004	Material Management And Accounting System	JUL 2009
252.243-7001	Pricing Of Contract Modifications	DEC 1991
252.243-7002	Requests for Equitable Adjustment	MAR 1998
252.244-7000	Subcontracts for Commercial Items and Commercial Components (DoD Contracts)	NOV 2010
252.246-7000	Material Inspection And Receiving Report	MAR 2008
252.246-7001	Warranty Of Data	DEC 1991
252.246-7003	Notification of Potential Safety Issues	JAN 2007
252.247-7023	Transportation of Supplies by Sea	MAY 2002
252.247-7024	Notification Of Transportation Of Supplies By Sea	MAR 2000
252.249-7002	Notification of Anticipated Contract Termination or Reduction	OCT 2010
252.251-7000	Ordering From Government Supply Sources	NOV 2004

CLAUSES INCORPORATED BY FULL TEXT

52.215-19 NOTIFICATION OF OWNERSHIP CHANGES (OCT 1997)

(a) The Contractor shall make the following notifications in writing:

(1) When the Contractor becomes aware that a change in its ownership has occurred, or is certain to occur, that could result in changes in the valuation of its capitalized assets in the accounting records, the Contractor shall notify the Administrative Contracting Officer (ACO) within 30 days.

(2) The Contractor shall also notify the ACO within 30 days whenever changes to asset valuations or any other cost changes have occurred or are certain to occur as a result of a change in ownership.

(b) The Contractor shall--

(1) Maintain current, accurate, and complete inventory records of assets and their costs;

(2) Provide the ACO or designated representative ready access to the records upon request;

(3) Ensure that all individual and grouped assets, their capitalized values, accumulated depreciation or amortization, and remaining useful lives are identified accurately before and after each of the Contractor's ownership changes; and

(4) Retain and continue to maintain depreciation and amortization schedules based on the asset records maintained before each Contractor ownership change.

The Contractor shall include the substance of this clause in all subcontracts under this contract that meet the applicability requirement of FAR 15.408(k).

(End of clause)

52.216-10 INCENTIVE FEE (MAR 1997)

(a) General. The Government shall pay the Contractor for performing this contract a fee determined as provided in this contract.

(b) Target cost and target fee. The target cost and target fee specified in the Schedule are subject to adjustment if the contract is modified in accordance with paragraph (d) below.

(1) "Target cost," as used in this contract, means the estimated cost of this contract as initially negotiated, adjusted in accordance with paragraph (d) below.

(2) "Target fee," as used in this contract, means the fee initially negotiated on the assumption that this contract would be performed for a cost equal to the estimated cost initially negotiated, adjusted in accordance with paragraph (d) below.

(c) Withholding of payment. Normally, the Government shall pay the fee to the Contractor as specified in the Schedule. However, when the Contracting Officer considers that performance or cost indicates that the Contractor will not achieve target, the Government shall pay on the basis of an appropriate lesser fee. When the Contractor demonstrates that performance or cost clearly indicates that the Contractor will earn a fee significantly above the target fee, the Government may, at the sole discretion of the Contracting Officer, pay on the basis of an appropriate higher fee. After payment of 85 percent of the applicable fee, the Contracting Officer may withhold further payment of fee until a reserve is set aside in an amount that the Contracting Officer considers necessary to protect the Government's interest. This reserve shall not exceed 15 percent of the applicable fee or \$100,000, whichever is less. The Contracting Officer shall release 75 percent of all fee withholds under this contract after receipt of the certified final indirect cost rate proposal covering the year of physical completion of this contract, provided the Contractor has satisfied all other contract terms and conditions, including the submission of the final patent and royalty reports, and is not delinquent in submitting final vouchers on prior years' settlements. The Contracting Officer may release up to 90 percent of the fee withholds under this contract based on the Contractor's past performance related to the submission and settlement of final indirect cost rate proposals.

(d) Equitable adjustments. When the work under this contract is increased or decreased by a modification to this contract or when any equitable adjustment in the target cost is authorized under any other clause, equitable

adjustments in the target cost, target fee, minimum fee, and maximum fee, as appropriate, shall be stated in a supplemental agreement to this contract.

(e) Fee payable. (1) The fee payable under this contract shall be the target fee increased by (b) cents for every dollar that the total allowable cost is less than the target cost or decreased by (b) cents for every dollar that the total allowable cost exceeds the target cost. In no event shall the fee be greater than (b) percent or less than (b) percent of the target cost.

(2) The fee shall be subject to adjustment, to the extent provided in paragraph (d) above, and within the minimum and maximum fee limitations in subparagraph (1) above, when the total allowable cost is increased or decreased as a consequence of (i) payments made under assignments or (ii) claims excepted from the release as required by paragraph (h)(2) of the Allowable Cost and Payment clause.

(3) If this contract is terminated in its entirety, the portion of the target fee payable shall not be subject to an increase or decrease as provided in this paragraph. The termination shall be accomplished in accordance with other applicable clauses of this contract.

(4) For the purpose of fee adjustment, "total allowable cost" shall not include allowable costs arising out of--

(i) Any of the causes covered by the Excusable Delays clause to the extent that they are beyond the control and without the fault or negligence of the Contractor or any subcontractor;

(ii) The taking effect, after negotiating the target cost, of a statute, court decision, written ruling, or regulation that results in the Contractor's being required to pay or bear the burden of any tax or duty or rate increase in a tax or duty;

(iii) Any direct cost attributed to the Contractor's involvement in litigation as required by the Contracting Officer pursuant to a clause of this contract, including furnishing evidence and information requested pursuant to the Notice and Assistance Regarding Patent and Copyright Infringement clause;

(iv) The purchase and maintenance of additional insurance not in the target cost and required by the Contracting Officer, or claims for reimbursement for liabilities to third persons pursuant to the Insurance Liability to Third Persons clause;

(v) Any claim, loss, or damage resulting from a risk for which the Contractor has been relieved of liability by the Government Property clause; or

(vi) Any claim, loss, or damage resulting from a risk defined in the contract as unusually hazardous or as a nuclear risk and against which the Government has expressly agreed to indemnify the Contractor.

(5) All other allowable costs are included in "total allowable cost" for fee adjustment in accordance with this paragraph (e), unless otherwise specifically provided in this contract.

(f) Contract modification. The total allowable cost and the adjusted fee determined as provided in this clause shall be evidenced by a modification to this contract signed by the Contractor and Contracting Officer.

(g) Inconsistencies. In the event of any language inconsistencies between this clause and provisioning documents or Government options under this contract, compensation for spare parts or other supplies and services ordered under such documents shall be determined in accordance with this clause.

(End of clause)

(a) In performing this contract, the Contractor is not authorized to make expenditures or incur obligations exceeding **(TBD at award)** dollars.

(b) The maximum amount for which the Government shall be liable if this contract is terminated is **(TBD at award)** dollars.

(End of clause)

52.216-25 CONTRACT DEFINITIZATION (OCT 2010)

(a) A CPAF definitive contract is contemplated. The Contractor agrees to begin promptly negotiating with the Contracting Officer the terms of a definitive contract that will include (1) all clauses required by the Federal Acquisition Regulation (FAR) on the date of execution of the letter contract, (2) all clauses required by law on the date of execution of the definitive contract, and (3) any other mutually agreeable clauses, terms, and conditions. The Contractor agrees to submit a Cost Reimbursement proposal, including data other than certified cost or pricing data, and certified cost or pricing data, in accordance with FAR 15.408, Table 15-2, supporting its proposal.

(b) The schedule for definitizing this contract is:

Open Negotiations:	March 15, 2011
Close Negotiations:	April 7, 2011
Target Date for Definitization:	April 30, 2011

(c) If agreement on a definitive contract to supersede this letter contract is not reached by the target date in paragraph (b) above, or within any extension of it granted by the Contracting Officer, the Contracting Officer may, with the approval of the head of the contracting activity, determine a reasonable price or fee in accordance with Subpart 15.4 and Part 31 of the FAR, subject to Contractor appeal as provided with completion of the contract, subject only to the Limitation of Government Liability clause.

(1) After the Contracting Officer's determination of price or fee, the contract shall be governed by--

(i) All clauses required by the FAR on the date of execution of this letter contract for either fixed-price or cost-reimbursement contracts, as determined by the Contracting Officer under this paragraph (c);

(ii) All clauses required by law as of the date of the Contracting Officer's determination; and

(iii) Any other clauses, terms, and conditions mutually agreed upon.

(2) To the extent consistent with subparagraph (c)(1) above, all clauses, terms, and conditions included in this letter contract shall continue in effect, except those that by their nature apply only to a letter contract.

(End of clause)

52.216-26 PAYMENTS OF ALLOWABLE COSTS BEFORE DEFINITIZATION (DEC 2002)

(a) Reimbursement rate. Pending the placing of the definitive contract referred to in this letter contract, the Government will promptly reimburse the Contractor for all allowable costs under this contract at the following rates:

(1) One hundred percent of approved costs representing financing payments to subcontractors under fixed-price subcontracts, provided that the Government's payments to the Contractor will not exceed 80 percent of the allowable costs of those subcontractors.

(2) One hundred percent of approved costs representing cost-reimbursement subcontracts; provided, that the Government's payments to the Contractor shall not exceed 85 percent of the allowable costs of those subcontractors.

(3) Eighty-five percent of all other approved costs.

(b) Limitation of reimbursement. To determine the amounts payable to the Contractor under this letter contract, the Contracting Officer shall determine allowable costs in accordance with the applicable cost principles in Part 31 of the Federal Acquisition Regulation (FAR). The total reimbursement made under this paragraph shall not exceed 85 percent of the maximum amount of the Government's liability, as stated in this contract.

(c) Invoicing. Payments shall be made promptly to the Contractor when requested as work progresses, but (except for small business concerns) not more often than every 2 weeks, in amounts approved by the Contracting Officer. The Contractor may submit to an authorized representative of the Contracting Officer, in such form and reasonable detail as the representative may require, an invoice or voucher supported by a statement of the claimed allowable cost incurred by the Contractor in the performance of this contract.

(d) Allowable costs. For the purpose of determining allowable costs, the term "costs" includes--

(1) Those recorded costs that result, at the time of the request for reimbursement, from payment by cash, check, or other form of actual payment for items or services purchased directly for the contract;

(2) When the Contractor is not delinquent in payment of costs of contract performance in the ordinary course of business, costs incurred, but not necessarily paid, for--

(i) Supplies and services purchased directly for the contract and associated financing payments to subcontractors, provided payments determined due will be made--

(A) In accordance with the terms and conditions of a subcontract or invoice; and

(B) Ordinarily within 30 days of the submission of the Contractor's payment request to the Government;

(ii) Materials issued from the Contractor's stores inventory and placed in the production process for use on the contract;

(iii) Direct labor;

(iv) Direct travel;

(v) Other direct in-house costs; and

(vi) Properly allocable and allowable indirect costs as shown on the records maintained by the Contractor for purposes of obtaining reimbursement under Government contracts; and

(3) The amount of financing payments that the Contractor has paid by cash, check, or other forms of payment to subcontractors.

(e) Small business concerns. A small business concern may receive more frequent payments than every 2 weeks.

(f) Audit. At any time before final payment, the Contracting Officer may have the Contractor's invoices or vouchers and statements of costs audited. Any payment may be (1) reduced by any amounts found by the Contracting Officer

not to constitute allowable costs or (2) adjusted for overpayments or underpayments made on preceding invoices or vouchers.

(End of clause)

52.217-8 OPTION TO EXTEND SERVICES (NOV 1999)

The Government may require continued performance of any services within the limits and at the rates specified in the contract. These rates may be adjusted only as a result of revisions to prevailing labor rates provided by the Secretary of Labor. The option provision may be exercised more than once, but the total extension of performance hereunder shall not exceed 6 months. The Contracting Officer may exercise the option by written notice to the Contractor within 60 days.

(End of clause)

52.219-28 POST-AWARD SMALL BUSINESS PROGRAM REREPRESENTATION (APR 2009)

(a) Definitions. As used in this clause--

Long-term contract means a contract of more than five years in duration, including options. However, the term does not include contracts that exceed five years in duration because the period of performance has been extended for a cumulative period not to exceed six months under the clause at 52.217-8, Option to Extend Services, or other appropriate authority.

Small business concern means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR part 121 and the size standard in paragraph (c) of this clause. Such a concern is "not dominant in its field of operation" when it does not exercise a controlling or major influence on a national basis in a kind of business activity in which a number of business concerns are primarily engaged. In determining whether dominance exists, consideration shall be given to all appropriate factors, including volume of business, number of employees, financial resources, competitive status or position, ownership or control of materials, processes, patents, license agreements, facilities, sales territory, and nature of business activity.

(b) If the Contractor represented that it was a small business concern prior to award of this contract, the Contractor shall rerepresent its size status according to paragraph (e) of this clause or, if applicable, paragraph (g) of this clause, upon the occurrence of any of the following:

(1) Within 30 days after execution of a novation agreement or within 30 days after modification of the contract to include this clause, if the novation agreement was executed prior to inclusion of this clause in the contract.

(2) Within 30 days after a merger or acquisition that does not require a novation or within 30 days after modification of the contract to include this clause, if the merger or acquisition occurred prior to inclusion of this clause in the contract.

(3) For long-term contracts--

(i) Within 60 to 120 days prior to the end of the fifth year of the contract; and

(ii) Within 60 to 120 days prior to the date specified in the contract for exercising any option thereafter.

(c) The Contractor shall rerepresent its size status in accordance with the size standard in effect at the time of this rerepresentation that corresponds to the North American Industry Classification System (NAICS) code assigned to this contract. The small business size standard corresponding to this NAICS code can be found at <http://www.sba.gov/services/contractingopportunities/sizestandardstopics/>.

(d) The small business size standard for a Contractor providing a product which it does not manufacture itself, for a contract other than a construction or service contract, is 500 employees.

(e) Except as provided in paragraph (g) of this clause, the Contractor shall make the rerepresentation required by paragraph (b) of this clause by validating or updating all its representations in the Online Representations and Certifications Application and its data in the Central Contractor Registration, as necessary, to ensure that they reflect the Contractor's current status. The Contractor shall notify the contracting office in writing within the timeframes specified in paragraph (b) of this clause that the data have been validated or updated, and provide the date of the validation or update.

(f) If the Contractor represented that it was other than a small business concern prior to award of this contract, the Contractor may, but is not required to, take the actions required by paragraphs (e) or (g) of this clause.

(g) If the Contractor does not have representations and certifications in ORCA, or does not have a representation in ORCA for the NAICS code applicable to this contract, the Contractor is required to complete the following rerepresentation and submit it to the contracting office, along with the contract number and the date on which the rerepresentation was completed:

The Contractor represents that it () is, () is not a small business concern under NAICS Code - assigned to contract number .

(Contractor to sign and date and insert authorized signer's name and title).

(End of clause)

52.222-2 PAYMENT FOR OVERTIME PREMIUMS (JUL 1990)

(a) The use of overtime is authorized under this contract if the overtime premium cost does not exceed (b)(4) or the overtime premium is paid for work --

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

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

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

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

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

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

the necessity for the overtime;

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

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

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

* Insert either "zero" or the dollar amount agreed to during negotiations. The inserted figure does not apply to the exceptions in paragraph (a)(1) through (a)(4) of the clause.

(End of clause)

52.223-11 OZONE-DEPLETING SUBSTANCES (MAY 2001)

(a) Definition. Ozone-depleting substance, as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR part 82 as--

(1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or

(2) Class II, including, but not limited to, hydrochlorofluorocarbons.

(b) The Contractor shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j (b), (c), and (d) and 40 CFR Part 82, Subpart E, as follows:

"WARNING: Contains (or manufactured with, if applicable), a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere."-----

The Contractor shall insert the name of the substance(s).

(End of clause4)

52.234-1 INDUSTRIAL RESOURCES DEVELOPED UNDER DEFENSE PRODUCTION ACT TITLE III (DEC 1994)

(a) Definitions.

"Title III industrial resource" means materials, services, processes, or manufacturing equipment (including the processes, technologies, and ancillary services for the use of such equipment) established or maintained under the authority of Title III, Defense Production Act (50 U.S.C. App. 2091-2093)..

"Title III project contractor" means a contractor that has received assistance for the development or manufacture of an industrial resource under 50 U.S.C. App. 2091-2093, Defense Production Act.

(b) The Contractor shall refer any request from a Title III project contractor for testing and qualification of a Title III industrial resource to the Contracting Officer.

(c) Upon the direction of the Contracting Officer, the Contractor shall test Title III industrial resources for

qualification. The Contractor shall provide the test results to the Defense Production Act Office, Title III Program, located at Wright Patterson Air Force Base, Ohio 45433-7739.

(d) When the Contracting Officer modifies the contract to direct testing pursuant to this clause, the Government will provide the Title III industrial resource to be tested and will make an equitable adjustment in the contract for the costs of testing and qualification of the Title III industrial resource.

(e) The Contractor agrees to insert the substance of this clause, including paragraph (e), in every subcontract issued in performance of this contract.

(End of clause)

52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

<http://farsite.hill.af.mil/vffara.htm>

(End of clause)

52.252-6 AUTHORIZED DEVIATIONS IN CLAUSES (APR 1984)

(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.

(b) The use in this solicitation or contract of any Department of Defense Federal Acquisition Regulation Supplement (DFARS) (48 CFR 2) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

(End of clause)

252.211-7003 ITEM IDENTIFICATION AND VALUATION (SEP 2010)

(a) Definitions. As used in this clause'

Automatic identification device means a device, such as a reader or interrogator, used to retrieve data encoded on machine-readable media.

Concatenated unique item identifier means--

(1) For items that are serialized within the enterprise identifier, the linking together of the unique identifier data elements in order of the issuing agency code, enterprise identifier, and unique serial number within the enterprise identifier; or

(2) For items that are serialized within the original part, lot, or batch number, the linking together of the unique identifier data elements in order of the issuing agency code; enterprise identifier; original part, lot, or batch number; and serial number within the original part, lot, or batch number.

Data qualifier means a specified character (or string of characters) that immediately precedes a data field that defines the general category or intended use of the data that follows.

DoD recognized unique identification equivalent” means a unique identification method that is in commercial use and has been recognized by DoD. All DoD recognized unique identification equivalents are listed at http://www.acq.osd.mil/dpap/pdi/uid/iuid_equivalents.html.

DoD unique item identification means a system of marking items delivered to DoD with unique item identifiers that have machine-readable data elements to distinguish an item from all other like and unlike items. For items that are serialized within the enterprise identifier, the unique item identifier shall include the data elements of the enterprise identifier and a unique serial number. For items that are serialized within the part, lot, or batch number within the enterprise identifier, the unique item identifier shall include the data elements of the enterprise identifier; the original part, lot, or batch number; and the serial number.

Enterprise means the entity (e.g., a manufacturer or vendor) responsible for assigning unique item identifiers to items.

Enterprise identifier means a code that is uniquely assigned to an enterprise by an issuing agency.

Government’s unit acquisition cost means--

(1) For fixed-price type line, subline, or exhibit line items, the unit price identified in the contract at the time of delivery;

(2) For cost-type or undefinitized line, subline, or exhibit line items, the Contractor's estimated fully burdened unit cost to the Government at the time of delivery; and

(3) For items produced under a time-and-materials contract, the Contractor's estimated fully burdened unit cost to the Government at the time of delivery.

Issuing agency means an organization responsible for assigning a non-repeatable identifier to an enterprise (i.e., Dun & Bradstreet's Data Universal Numbering System (DUNS) Number, GS1 Company Prefix, or Defense Logistics Information System (DLIS) Commercial and Government Entity (CAGE) Code).

Issuing agency code means a code that designates the registration (or controlling) authority for the enterprise identifier.

Item means a single hardware article or a single unit formed by a grouping of subassemblies, components, or constituent parts.

Lot or batch number means an identifying number assigned by the enterprise to a designated group of items, usually referred to as either a lot or a batch, all of which were manufactured under identical conditions.

Machine-readable means an automatic identification technology media, such as bar codes, contact memory buttons, radio frequency identification, or optical memory cards.

Original part number means a combination of numbers or letters assigned by the enterprise at item creation to a class of items with the same form, fit, function, and interface.

Parent item means the item assembly, intermediate component, or subassembly that has an embedded item with a unique item identifier or DoD recognized unique identification equivalent.

Serial number within the enterprise identifier means a combination of numbers, letters, or symbols assigned by the enterprise to an item that provides for the differentiation of that item from any other like and unlike item and is never used again within the enterprise.

Serial number within the part, lot, or batch number means a combination of numbers or letters assigned by the enterprise to an item that provides for the differentiation of that item from any other like item within a part, lot, or batch number assignment.

Serialization within the enterprise identifier means each item produced is assigned a serial number that is unique among all the tangible items produced by the enterprise and is never used again. The enterprise is responsible for ensuring unique serialization within the enterprise identifier.

Serialization within the part, lot, or batch number means each item of a particular part, lot, or batch number is assigned a unique serial number within that part, lot, or batch number assignment. The enterprise is responsible for ensuring unique serialization within the part, lot, or batch number within the enterprise identifier.

Unique item identifier means a set of data elements marked on items that is globally unique and unambiguous. The term includes a concatenated unique item identifier or a DoD recognized unique identification equivalent.

Unique item identifier type means a designator to indicate which method of uniquely identifying a part has been used. The current list of accepted unique item identifier types is maintained at http://www.acq.osd.mil/dpap/pdi/uid/uii_types.html.

(b) The Contractor shall deliver all items under a contract line, subline, or exhibit line item.

(c) Unique item identifier.

(1) The Contractor shall provide a unique item identifier for the following:

(i) All delivered items for which the Government's unit acquisition cost is \$5,000 or more.

(ii) The following items for which the Government's unit acquisition cost is less than \$5,000:

Contract line, subline, or exhibit line	
item No.	Item description

(iii) Subassemblies, components, and parts embedded within delivered items as specified in Attachment Number ----

(2) The unique item identifier and the component data elements of the DoD unique item identification shall not change over the life of the item.

(3) Data syntax and semantics of unique item identifiers. The Contractor shall ensure that--

(i) The encoded data elements (except issuing agency code) of the unique item identifier are marked on the item using one of the following three types of data qualifiers, as determined by the Contractor:

(A) Application Identifiers (AIs) (Format Indicator 05 of ISO/IEC International Standard 15434), in accordance with ISO/IEC International Standard 15418, Information Technology--EAN/UCC Application Identifiers and Fact Data Identifiers and Maintenance and ANSI MH 10.8.2 Data Identifier and Application Identifier Standard.

(B) Data Identifiers (DIs) (Format Indicator 06 of ISO/IEC International Standard 15434), in accordance with ISO/IEC International Standard 15418, Information Technology--EAN/UCC Application Identifiers and Fact Data Identifiers and Maintenance and ANSI MH 10.8.2 Data Identifier and Application Identifier Standard.

(C) Text Element Identifiers (TEIs) (Format Indicator 12 of ISO/IEC International Standard 15434), in accordance with the Air Transport Association Common Support Data Dictionary; and

(ii) The encoded data elements of the unique item identifier conform to the transfer structure, syntax, and coding of messages and data formats specified for Format Indicators 05, 06, and 12 in ISO/IEC International Standard 15434, Information Technology--Transfer Syntax for High Capacity Automatic Data Capture Media.

(4) Unique item identifier.

(i) The Contractor shall--

(A) Determine whether to--

(1) Serialize within the enterprise identifier;

(2) Serialize within the part, lot, or batch number; or

(3) Use a DoD recognized unique identification equivalent; and

(B) Place the data elements of the unique item identifier (enterprise identifier; serial number; DoD recognized unique identification equivalent; and for serialization within the part, lot, or batch number only: original part, lot, or batch number) on items requiring marking by paragraph (c)(1) of this clause, based on the criteria provided in the version of MIL-STD-130, Identification Marking of U.S. Military Property, cited in the contract Schedule.

(ii) The issuing agency code--

(A) Shall not be placed on the item; and

(B) Shall be derived from the data qualifier for the enterprise identifier.

(d) For each item that requires unique item identification under paragraph (c)(1)(i) or (ii) of this clause, in addition to the information provided as part of the Material Inspection and Receiving Report specified elsewhere in this contract, the Contractor shall report at the time of delivery, either as part of, or associated with, the Material Inspection and Receiving Report, the following information:

(1) Unique item identifier.

(2) Unique item identifier type.

(3) Issuing agency code (if concatenated unique item identifier is used).

(4) Enterprise identifier (if concatenated unique item identifier is used).

(5) Original part number (if there is serialization within the original part number).

(6) Lot or batch number (if there is serialization within the lot or batch number).

(7) Current part number (optional and only if not the same as the original part number).

(8) Current part number effective date (optional and only if current part number is used).

(9) Serial number (if concatenated unique item identifier is used).

(10) Government's unit acquisition cost.

(11) Unit of measure.

(e) For embedded subassemblies, components, and parts that require DoD unique item identification under paragraph (c)(1)(iii) of this clause, the Contractor shall report as part of, or associated with, the Material Inspection and Receiving Report specified elsewhere in this contract, the following information:

(1) Unique item identifier of the parent item under paragraph (c)(1) of this clause that contains the embedded subassembly, component, or part.

(2) Unique item identifier of the embedded subassembly, component, or part.

(3) Unique item identifier type.**

(4) Issuing agency code (if concatenated unique item identifier is used).**

(5) Enterprise identifier (if concatenated unique item identifier is used).**

(6) Original part number (if there is serialization within the original part number).**

(7) Lot or batch number (if there is serialization within the lot or batch number).**

(8) Current part number (optional and only if not the same as the original part number).**

(9) Current part number effective date (optional and only if current part number is used).**

(10) Serial number (if concatenated unique item identifier is used).**

(11) Description.

** Once per item.

(f) The Contractor shall submit the information required by paragraphs (d) and (e) of this clause in accordance with the data submission procedures at http://www.acq.osd.mil/dpap/pdi/uid/data_submission_information.html.

(g) Subcontracts. If the Contractor acquires by subcontract, any item(s) for which unique item identification is required in accordance with paragraph (c)(1) of this clause, the Contractor shall include this clause, including this paragraph (g), in the applicable subcontract(s).

(End of clause)

252.234-7002 EARNED VALUE MANAGEMENT SYSTEM (APR 2008)

(a) In the performance of this contract, the Contractor shall use--

(1) An Earned Value Management System (EVMS) that complies with the EVMS guidelines in the American National Standards Institute/Electronic Industries Alliance Standard 748, Earned Value Management Systems (ANSI/EIA-748); and

(2) Management procedures that provide for generation of timely, reliable, and verifiable information for the Contract Performance Report (CPR) and the Integrated Master Schedule (IMS) required by the CPR and IMS data items of this contract.

(b) If this contract has a value of \$50,000,000 or more, the Contractor shall use an EVMS that has been determined by the Cognizant Federal Agency (CFA) to be in compliance with the EVMS guidelines as stated in paragraph (a)(1) of this clause. If, at the time of award, the Contractor's EVMS has not been determined by the CFA to be in compliance with the EVMS guidelines as stated in paragraph (a)(1) of this clause, the Contractor shall apply its current system to the contract and shall take necessary actions to meet the milestones in the Contractor's EVMS plan.

(c) If this contract has a value of less than \$50,000,000, the Government will not make a formal determination that the Contractor's EVMS complies with the EVMS guidelines in ANSI/EIA-748 with respect to the contract. The use of the Contractor's EVMS for this contract does not imply a Government determination of the Contractor's compliance with the EVMS guidelines in ANSI/EIA-748 for application to future contracts. The Government will allow the use of a Contractor's EVMS that has been formally reviewed and determined by the CFA to be in compliance with the EVMS guidelines in ANSI/EIA-748.

(d) The Contractor shall submit notification of any proposed substantive changes to the EVMS procedures and the impact of those changes to the CFA. If this contract has a value of \$50,000,000 or more, unless a waiver is granted by the CFA, any EVMS changes proposed by the Contractor require approval of the CFA prior to implementation. The CFA will advise the Contractor of the acceptability of such changes as soon as practicable (generally within 30 calendar days) after receipt of the Contractor's notice of proposed changes. If the CFA waives the advance approval requirements, the Contractor shall disclose EVMS changes to the CFA at least 14 calendar days prior to the effective date of implementation.

(e) The Government will schedule integrated baseline reviews as early as practicable, and the review process will be conducted not later than 180 calendar days after (1) contract award, (2) the exercise of significant contract options, and (3) the incorporation of major modifications. During such reviews, the Government and the Contractor will jointly assess the Contractor's baseline to be used for performance measurement to ensure complete coverage of the statement of work, logical scheduling of the work activities, adequate resourcing, and identification of inherent risks.

(f) The Contractor shall provide access to all pertinent records and data requested by the Contracting Officer or duly authorized representative as necessary to permit Government surveillance to ensure that the EVMS complies, and continues to comply, with the performance criteria referenced in paragraph (a) of this clause.

(g) When indicated by contract performance, the Contractor shall submit a request for approval to initiate an over-target baseline or over-target schedule to the Contracting Officer. The request shall include a top-level projection of cost and/or schedule growth, a determination of whether or not performance variances will be retained, and a schedule of implementation for the rebaselining. The Government will acknowledge receipt of the request in a timely manner (generally within 30 calendar days).

(h) The Contractor shall require its subcontractors to comply with EVMS requirements as follows:

(1) For subcontracts valued at \$50,000,000 or more, the following subcontractors shall comply with the requirements of this clause:

(b)(4)

(2) For subcontracts valued at less than \$50,000,000, the following subcontractors shall comply with the requirements of this clause, excluding the requirements of paragraph (b) of this clause:

(b)

(End of clause)

Section J - List of Documents, Exhibits and Other Attachments

EXHIBIT/ATTACHMENTS

Section J - List of Documents, Exhibits and Other Attachments

Exhibit/Attachment Table of Contents

** Indicates the Attachment has been revised or added with this Modification.

DOCUMENT TYPE	DESCRIPTION	PAGES	Date
Exhibit A	Contract Data Requirements Lists (CDRLs)	31	10/08/2014
Attachment 1	CDRL Distribution Matrix	4	06/02/2011
Attachment 2	**Contract Security Classification Spec – DD254	16	04/14/2011
Attachment 3	**Statement of Work (SOW)	57	05/12/2011
Attachment 4	GFP/GFE Listing	2	12/12/2012
Attachment 5	Service Life Extention Program (SLEP)	68	03/27/2012
Attachment 6	SM-3 Schedule	2	05/12/2011
Attachment 7	**Award Fee Plan	23	03/07/2012
Attachment 8	WBS	13	12/08/2011
Attachment 9	Block IB Configuration	3	06/07/2011
Attachment 10	Cost Software Data Reporting Plan DD2794	15	06/08/2011
Attachment 11	Data Rights Assertions	3	12/08/2011
Attachment 12	MD57579 Rev D	24	01/20/2011
Attachment 13	MDA OCI Policy Memo 51	2	07/27/2009
Attachment 14	SM Program Quality and Reliability Provisions	47	06/26/2000
Attachment 15	ECP Leader Instructions	8	02/06/2002
Attachment 16	**Allotment of Funds Table	3	05/28/2015

SM-3 Systems Engineering Statement of Work

HQ0276-11-C-0002

P00086

7/22/2015

The following is the Statement of Work depicting the requirements for the SM-3 Systems Engineering Program.

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1. GENERAL

This Statement of Work (SOW) defines tasks in support of a STANDARD Missile - 3 (SM-3) Program to demonstrate the implementation of technologies in the Aegis Ballistic Missile Defense (BMD) Program.

1.1. Scope

The tasks defined in this SOW cover the engineering design, analysis, trade studies, fabrication, test, and support of the SM-3 Guided Missile Round (GMR). The contractor shall continue SM-3 efforts initiated under contract HQ0276-08-C-0001 as follows:

- Complete development and testing of a SM-3 Block IB Pathfinder round.
- Manufacturing Support of SM-3 Block IA and IB GMRs.
- Conduct Government Furnished Property (GFP) repair.
- Support Government flight demonstrations and tests of SM-3 GMRs.
- Support Failure Review Boards (FRB) and Failure Investigation Teams (FIT), as directed by the Aegis BMD program office.
- Support integration efforts between the SM-3 Missile and Aegis Weapons System (AWS).
- Maintain and advance the architecture of the End-To-End Distributed Development System (ETEDDS).
- Systems Engineering and Integration (SE&I) support.
- Conduct SM-3 GMR future architecture studies, demonstrations, and development.
- Foreign Military Sales (FMS) engineering services.

1.2. Background

The objective of this SM-3 Program is to continue to demonstrate, evolve and provide a capability to intercept ballistic missiles with a SM-3 Missile integrated with the Aegis Weapon System. The Aegis BMD Program has used a series of Block Upgrades to extend the operational and performance capabilities of the Aegis BMD Weapon System.

1.3. Definitions

The term SM-3 Missile refers to the all SM-3 variants.
Acronyms used within this document are listed in Appendix A.

1.4. Objective

The Contractor, in support of the STANDARD Missile-3 Program, shall function as the Missile Round Design Agent and shall provide the necessary engineering services and material for systems engineering, design and development support, and implementation. The objective of the effort in this SOW is to design, test, complete, deliver, and provide support for the following:

1.4.1. CLIN 0001 - Block IB Development (Completion – CPIF)

The contractor shall complete build-up and/or upgrades of Design Verification Test (DVT) and Hazard Assessment Test (HAT) Sections and Inert Operational Missiles (IOMs), perform DVT, Qualification (Qual), and HAT for the Block IB Missile. The Contractor shall procure materials for the SM-3 Block IB Pathfinder GMR and Block IB Flight Test Spares, and perform build-up and acceptance testing of the SM-3 Block IB Pathfinder GMR, Block IB Flight Test Spare sections, and support Transition to Production to a rate of (b)(4) missiles per month.

CLIN 0001 Guided Missile Rounds

(b)(4)

The contractor shall fabricate each Standard Missile -3 All Up Round for flight testing to contain a Flight Termination System. The contractor shall provide the SM-3 AUR (special test units) listed below:

HARDWARE UNITS	QTY EACH	REMARKS
KW Environmental Test Equipment	(b)(4)	Used for Environmental testing of the KW CCA's at (b)(4)
ASP Chiller Pumps (part of the GUTS)	(b)(4)	Used to chill the ASP while under power at (b)(4)
GUTS (b)(4)	(b)(4)	Used to power and test the Guidance (b)(4) production
AR Room GUC (b)(4)	(b)(4)	Used in testing of the EU optics
KW CCA Test Adapters	(b)(4)	ECCA, ASP, and TDACS test adapters (b)(4) used for CCA testing at (b)(4)
Avionics Test Capability on the MK698	(b)(4)	Adds Avionics Assembly Test capability to the MK698 in (b)(4)
MK698 2 nd cell support in (b)(4)	(b)(4)	Adds capability to test (b)(4) Guidance Sections at a time to the (b)(4) MK698
Modular Ordnance Test Sets (b)(4)	(b)(4)	MOTS for (b)(4)
(b)(4)	(b)(4)	Funding from MOT (b)(4) to be used to fund TE in support of the SCS/TVA builds
Support Equipment	(b)(4)	
FTM-16 Flight Test GMR	(b)(4)	Flight Testing
Flight Test Spare Sections	(b)(4)	KW, GS
Inert Operational Missile (IOMs)	(b)(4)	Redeployment of DVT IOMs (b)(4) to production

1.4.1.1. Systems Engineering (SE)

1.4.1.1.1. Integrated Product Team (IPT) Lead.

The Contractor shall continue to provide a SE Co-Lead of the SE IPT. This IPT will have a government and contractor Co-Lead. IPT leads shall maintain close

technical, cost and schedule communication with their government counterparts. The Contractor shall continue to maintain and update the System Engineering Management Plan (SEMP).

1.4.1.1.2. Systems Design and Requirements

1.4.1.1.2.1. Planning and Requirements Analysis. The Contractor shall complete development of Aegis BMD requirements in accordance with the Performance Specification for the Aegis BMD Standard Missile 3 Block IB Top Level Requirements (Document # WS35176) as approved by the Aegis BMD Configuration Control Board. The Contractor support shall include but is not limited to performance analysis, sensitivity trade studies, and flow-down of requirements and specialty engineering analysis.

1.4.1.1.2.2. Missile Requirements and Design Support. The Contractor shall complete requirements trade studies and flow-down of TLR, maintain and update the missile Prime Item Development Specification (PIDS), section level Critical Item Development Specifications (CIDS), Critical Item Product Specifications (CIPS), Key Item Development Specifications (KIDS), Key Item Product Specifications (KIPS), Interface Requirement Specifications (IRS), Software Requirement Specifications (SRS) and other applicable design requirement documents. The contractor shall provide a trace of all requirements (PIDS, CIDS, CIPS, KIDS, KIPS, IRS, SRS and other) to the TLR using DOORS. The Contractor shall complete development and updates to Aegis BMD program office acceptance requirements. The Contractor shall demonstrate requirements traceability in preparation for DVT, flight tests, Six Degree of Freedom (6-DOF) simulations, Computer In-the Loop (CIL)/Hardware-In-Loop (HIL) tests and all other tests to ensure the system meets requirements. The Contractor shall support the planning of requirements verification and track the comprehensive verification efforts. The Contractor shall update the Electrical and Mechanical Interface Control Documents (ICDs) to reflect the Block IB configurations. The Contractor shall continue the cooperative effort with (b)(4) and Navy agencies to address requirement definition and allocation, supporting studies, concept of operation, preliminary design/concepts and interface definition of the SM-3 Missile with the Aegis ship.

1.4.1.1.3. Systems Engineering Management (DI-SESS-81785).

The contractor shall establish the technical approach and proposed plan for the conduct, management, and control of the integrated systems engineering effort in accordance with the applicable CDRL.

1.4.1.1.4. Design Coordination

1.4.1.1.4.1. The Contractor shall complete development of the Block IB Pathfinder GMR ICDs, Value Engineering Change Proposals (VECP) integration, design and construction requirements, supporting engineering analysis, and product specifications. (DI-CMAN-80639C) The contractor shall provide an electronic ECP in accordance with the applicable CDRL. (A001)

1.4.1.1.4.2. The contractor shall submit a Request for Deviation (RFD) describing any proposed departure from (a nonconformance with) the contractually-specified configuration documentation for a specific number of

units or for a specified period of time in accordance with the applicable CDRL. (A002)

1.4.1.1.5. Functional Design

1.4.1.1.5.1. The Contractor shall update and maintain SM-3 simulations/models: Interactive Theater Air Defense System (ITADS), Trim Aero Five Degrees of Freedom (5-DOF), KW 6-DOF, and Missile 6-DOF, and other simulations. These simulations shall be used to support performance analysis, trade studies, requirement change impacts, operational concepts and risk evaluation and mitigation. The Contractor shall support 6-DOF simulation Verification and Validation (V&V). The Contractor shall construct a functional model of the Missile to support the analysis of the Missile Timeline and system/subsystem interface timing. The Contractor shall continue evaluation of and perform required updates to the SM-3 guidance and control algorithm/software development.

1.4.1.1.6. Simulation Tools

1.4.1.1.6.1. Computer In the Loop (CIL). The Contractor shall continue development and augmentation of CIL simulations and hardware to host the Block IB Missile configurations. The Contractor shall continue upgrades to existing Kinetic Warhead (KW) CIL hardware platforms and simulations to enable hosting of applicable system configuration hardware and to perform CIL integration. The Contractor shall provide Missile and KW CIL capacity to accommodate all required capabilities.

1.4.1.1.6.2. Guidance Section Evaluation Laboratory (GSEL). The Contractor shall continue upgrades to the GSEL to enable hosting Block IB Missile hardware. This includes procurement, fabrication, integration and testing of upgraded hardware for GSEL.

1.4.1.1.6.3. Engineering Test Bed (ETB). The Contractor shall complete development of and implement an ETB to enable the hosting of Block IB Missile hardware. The Contractor shall use the ETB to support development integration and test activities.

1.4.1.1.6.4. Interactive Theater Air Defense Simulation (ITADS). The Contractor shall continue to update and use ITADS to support performance analysis and trade studies, performance impacts of requirement changes, and operational concepts.

1.4.1.1.7. Discrimination Algorithm Design

The Contractor shall complete development and evaluation of advanced discrimination techniques for appropriate threat sets. The Contractor shall continue investigation and implementation of additional feature estimation and classification techniques. The Contractor shall lead the effort to investigate feature matching concepts for improved Radio Frequency/Infrared (RF/IR) sensor data correlation and handover and coordinate with the appropriate Government agencies.

1.4.1.2. Hardware

The Contractor shall be the Responsible Engineering Authority (REA) for all design upgrades through completion of verification, process upgrade proofing, and

completion of the established verification process through all design ground tests and release of design documentation. The Contractor design activities shall consider all the elemental requirements contained within both the PIDS and the designated threats from the Design Input Data Package (DIDP) for Aegis BMD.

1.4.1.2.1. IPT Lead.

The Contractor shall continue to provide a Hardware Co-Lead for this IPT. This IPT will have government and contractor Co-Leads. IPT leads shall maintain close technical, cost and schedule communication with their government counterparts. The Contractor shall provide planning, coordination and oversight of the hardware activities associated with the development of SM-3.

1.4.1.2.1.1. Kinetic Warhead. The contractor shall upgrade the design of, procure parts and assemblies for, fabricate, assemble, and test the Kinetic Warhead.

1.4.1.2.1.2. Other Hardware. The Contractor shall continue to maintain and upgrade the design of and procure parts and assemblies, fabricate, assemble, and test other components in support of the Block IB design.

1.4.1.3. Propulsion

The Propulsion IPT is responsible for the MK 72 First Stage Rocket Motor (Booster), MK 104 Dual Thrust Rocket Motor (DTRM), MK 136 Third Stage Rocket Motor (TSRM) and Throttleable Divert Attitude Control Systems (TDACS).

1.4.1.3.1. Propulsion IPT Lead.

The Contractor shall continue to provide a Propulsion Co-Lead for this IPT. This IPT will have government and contractor Co-Leads. IPT leads shall maintain close technical, cost and schedule communication with their government counterparts.

1.4.1.3.1.1. The Contractor shall provide technical and subcontract management support.

1.4.1.3.1.2. MK72 Booster and Thrust Vector Assembly (TVA). The Contractor shall procure MK 72 materials and services for the development components. The Contractor shall monitor and track existing MK 72 first stage inert Boosters. The Contractor shall refurbish/repair existing MK 72 inert Boosters as directed by the Aegis BMD program office to support the Block IB configuration.

1.4.1.3.1.3. MK 104 DTRM. The Contractor shall procure MK 104 materials and services for the development components. The Contractor shall track and manage the MK 104 inert DTRMs used for IOMs and provide support to allocation of the Government furnished DTRMs to meet the requirements of the Technology Development Program.

1.4.1.3.1.4. TSRM. The Contractor shall procure, fabricate, assemble and test TSRM materials and services for the development components.

1.4.1.3.2. 4th Stage

1.4.1.3.2.1. TDACS.

1.4.1.3.2.1.1. The Contractor shall complete TDACS design and TDACS qualification testing. The Contractor shall perform integration activities for the SM-3 Missiles software build with the TDACS software. The Contractor shall update the SM-3 6-DOF with the TDACS model. The Contractor shall develop and update requirements. The Contractor shall complete design activities for upgrade to the current KW SM-3 CIL with the TDACS simulator. The Contractor shall complete SM-3 DVT planning, testing and implementation to support TDACS integration.

The Contractor shall procure, fabricate, assemble and test TDACS materials and services for the development components.

1.4.1.4. Hardware Analysis

The Contractor shall perform structural, thermal, electrical and other analyses. The Contractor shall perform integration and test planning of subsystem and system DVT required to ensure compliance with evolving system level requirements. The Contractor shall continue support to Aegis BMD Program planning activities.

1.4.1.4.1. Highly Accelerated Life Test (HALT). The Contractor shall perform HALT and develop a plan to include components and subassemblies on which HALT will be performed, environments used and number of design update cycles performed.

1.4.1.5. Software

The Contractor shall continue evaluation of software upgrades and perform required software changes as well as update the algorithm/software development schedule for Aegis BMD. Software development shall support the threats as described in the TLR document and the designated threats from the DIDP. The Contractor shall ensure that software development and implementation follows an incremental build philosophy. The Contractor shall conduct reviews, as appropriate, for each build prior to release.

1.4.1.5.1. IPT Lead.

The Contractor shall continue to provide planning, coordination and oversight of the software activities associated with the development of SM-3 GMRs. This shall include updating and maintaining the Software Development Plan (SDP), maintenance, and reporting.

1.4.1.5.2. KW.

The Contractor shall update and maintain the software and documentation for changes in the KW including the Signal Processor and Guidance Processor to meet round level requirements. The Contractor shall perform testing and/or analyses required to verify performance changes. The Contractor shall supply diagnostic software for advanced signal processor development.

1.4.1.5.3. Stage 2/Stage 3.

The Contractor shall continue to update the software and documentation for any changes in the Stage 2/Stage 3 software to meet round level requirements. The Contractor shall perform analyses and/or testing required to verify performance of any changes.

1.4.1.5.4. Software Integration and Test

The Contractor shall perform continuing CIL software builds. The Contractor shall perform Formal Qualification Test (FQT) and integration of software builds. The Contractor shall support all V&V activities. The Contractor shall develop test

plans, software test descriptions and software test reports for each Computer Software Configuration Item (CSCI). The Contractor shall perform software trouble reporting, track computer software trouble reports for all software anomalies and support section and round integration during ground and flight tests.

1.4.1.6. GMR Integration, Test and Analysis

1.4.1.6.1. IPT Leads.

The Contractor shall continue to provide an Integration, Test and Analysis Co-Lead for this IPT. This IPT will have government and contractor Co-Leads. IPT leads shall maintain close technical, cost and schedule communication with their government counterparts.

1.4.1.6.2. Assembly/Test/Analysis.

The Contractor shall assemble sections to the inert round level including the KW.

The contractor shall test and analyze resulting data to assure the round compliance to requirements.

1.4.1.6.3. Hazard Assessment Tests.

The Contractor shall fabricate, integrate and support Hazard Assessment Test assets and tests as defined in the government approved Hazard Assessment Test Plan.

1.4.1.6.4. Electromagnetic Environmental Effects (E3) tests.

The Contractor shall complete E3 testing and provide final test reports for: Electrostatic Discharge; Electromagnetic Interference; Direct Current Magnetics.

1.4.1.6.5. Live Battery Test

The Contractor shall complete Live Battery Testing and provide final test reports.

1.4.1.6.6. Hardware/Software margin characterization testing

The Contractor shall complete Hardware/Software margin characterization testing and provide final test reports.

1.4.1.6.7. Performance Verification Reviews

The Contractor shall complete Performance Verification Reviews and provide final reports for all Key Item Development Specifications, Prime Item Development Specifications, Critical Item Development Specifications and Interface Requirement Specifications.

1.4.1.6.8. Build up of Pathfinder GMR

The Contractor shall perform build-up and acceptance testing of the Block IB Pathfinder Round and Block IB Flight Test Spare sections.

1.4.1.7. Permit to Ship

The Contractor shall complete permit to ship requirements for the pathfinder GMR to include a Certificate of Conformance.

1.4.1.8. Certification of shipping containers

The Contractor shall complete Performance Oriented Packaging certification of shipping containers.

1.4.1.9. Manufacturing Readiness

The Contractor shall support SM-3 Aegis BMD Block IB Transition to Production. These Production Transition tasks shall achieve a GMR production rate capability of (b) SM-3 Block IB Guided Missile Rounds per month.

1.4.1.9.1. Engineering and Logistics.

The Contractor shall initiate non-recurring Engineering Support to meet required production rate capability.

1.4.1.9.2. Manufacturing Readiness Reviews.

1.4.1.9.3. The contractor shall ensure that all Manufacturing Readiness Reviews have been successfully completed.

1.4.1.9.4. Supplier Engineering

The Contractor shall define First Article Reviews at appropriate levels of assembly for SM-3 Block IB suppliers.

1.4.1.9.5. Manufacturing and Test Implementation

1.4.1.9.5.1. Production Control and Common Implementation. The Contractor shall plan and implement production lines and processes suitable to produce consistent quality and quantities of SM-3 Missiles. This shall include work towards rate optimization, validated test software, test instructions, test equipment hardware and software configurations, resolving test failures, manpower training, certification, material planning requirements, material control and containers.

1.4.1.9.5.2. Missile Manufacturing. This effort shall include initial technical direction/REA support, manufacturing support, and production test support. The Contractor shall develop planning, training, assembly, test processes, and work instructions. The Contractor shall conduct First Article Review process validation, and Contractor, vendor and supplier qualification requirements.

1.4.1.9.6. Special Test Equipment (STE).

The Contractor shall initiate the planning and implementation of non-recurring effort to develop and proof in STE sufficient to meet the required production rate capability.

1.4.1.9.6.1. STE Development and Maintenance. The Contractor shall maintain and upgrade the design of the KW STE including the KW Guidance Unit Test Set (GUTS) and KW Telemetry (TM) STE. The Contractor shall modify, upgrade, procure, and provide procedure proofing for all Missile STE including the GUTS/KW TM required to verify and accept hardware associated with upgrades in SM-3 Missiles. The Aegis BMD program office shall approve any update to the STE roadmap prior to implementation.

1.4.1.9.6.2. The Contractor shall complete, install, and proof-in Special Test Equipment for production manufacturing to include but not limited to: Guidance Unit Test Set units (b)(4) Guidance Unit Optical Table unit (b) KW Circuit Card Assembly production test adapters, Low Background Scanning Point Source (b) Modular Ordnance Test Set units (b)

(b)(4)

1.4.1.9.6.3. The Contractor shall reconfigure and maintain (b) Block IB Inert Operating Missiles (IOM's) from test configuration to the configuration required to support Block IB manufacturing.

1.4.1.9.7. Facilitization.

The Contractor shall initiate the planning and implementation of the necessary facility accommodations/modifications to meet the required production rate capability.

1.4.1.10. Manufacturing Readiness Levels (MRL)

1.4.1.10.1. Manufacturing Management Planning.

The Contractor shall describe their approach for ensuring that their Manufacturing Plan incorporates the use of mature manufacturing technologies and processes to facilitate a smooth and orderly transition from development to production. The Contractor's approach will utilize the MRL Desk book (DRAFT) and MRL Definitions and Descriptions found on DAU PQM Community of Practice as a guide. The Contractor shall use the MRL assessment criteria as a basis for evaluating manufacturing maturity. The Contractor shall identify their maturity levels and risks for the following manufacturing threads:

- Technology and the Industrial Base;
- Design Maturity;
- Cost and Funding of Manufacturing Initiatives;
- Materials;
- Process Capability and Control;
- Quality Management;
- Manufacturing Personnel; and
- Facilities

1.4.1.10.2. Manufacturing Management Level Assessments.

The Contractor shall describe their process for developing new processes or maturing processes that are not achieving production, quality, reliability, or cost goals. The Contractor shall describe their process for identifying manufacturing risk areas that might require a Manufacturing Readiness Level Assessment for assessing the manufacturing maturity of high or medium risk sub-systems and components. The Contractor shall describe their process for supporting Manufacturing Readiness Level Assessments at designated Contractor/ Subcontractor facility.

1.4.2. CLIN 0003 - In-Service Engineering Support (LOE – CPAF/CPIF)

1.4.2.1. Engineering Support

The Contractor shall support SM-3 Aegis BMD programs by providing maintenance of the design in support of SM-3 Missiles, including prototyping. The Contractor shall maintain and upgrade the SM-3 Missile configurations, processes, and associated test equipment. The Contractor shall document the scope of minimal redesigns,

including parts procurement, and shall provide this information to the Aegis BMD program office for concurrence.

1.4.2.2. Obsolete Materials

The Contractor shall develop, maintain, and execute an obsolescence tracking program for all components of the SM-3 Missile, based on the SM-3 Obsolescence Management Plan. This program shall include design and qualification of components for the purpose of mitigating and replacing obsolete missile subsystems and test equipment. The Contractor shall continue updating the obsolete parts list for all missile configurations in manufacturing and shall provide monthly metrics to the Government that include analysis of parts at risk of becoming obsolete, and proposed mitigation approaches including informal estimates of cost and schedule impacts. The Contractor shall document the scope of minimal redesigns, which could include recommendations for parts procurement required to replace obsolete parts, and shall provide this information to the Aegis BMD program office for concurrence. The contractor shall upgrade and maintain the SM-3 Missile configuration.

1.4.2.3. Government Furnished Property (GFP) Repair

The Contractor shall provide the materials, facility and services necessary to support the repair of GFP for the SM-3 Program to include GMRs, sections, assemblies, sub-assemblies, components and associated Test Equipment as directed by the SM-3 Technical Representative.

1.4.2.4. Flight Test Support

The Contractor shall provide support, to all required pre-flight activities including but not limited to Scenario Certification, pre-Mission Control Panel (MCP), MCP, Mission Readiness Review (MRR), Waterfront Integration Test (WIT) and all post Ready for Issue (RFI) activities associated with a flight through post Flight Mission (FM) data analysis.

1.4.2.5. Third Stage Telemeter

The Contractor shall develop requirements for a telemeter for third stage telemetry. The Contractor shall take COTS/GOTS products into consideration as well as the leveraging of existing Block IB designs. The Contractor shall obtain Government and NSA approval for the proposed design. The Contractor shall integrate, test, and incorporate the design into production.

1.4.2.6. Flight Termination Receiver Test Equipment

The Contractor shall design, develop, and implement the test equipment necessary to perform receiver functional ship-board testing to verify the SM-3 Flight Termination Receivers (FTR) installed in SM-3 Missile flight test rounds while loaded in the Vertical Launch System (VLS). The Contractor shall obtain Aegis BMD program office approval for the design prior to development and implementation.

1.4.2.7. System Test Bed (STB)

The Contractor shall continue to maintain the STB in support of the flight test program.

1.4.2.7.1. The Contractor shall provide high fidelity real time displays for visualization of the flight missions in both the shipboard Combat Information Center (CIC) and the Range Operations Control Center Tracking and Control Room D (ROCC-Delta) at the Pacific Missile Range Facility (PMRF).

1.4.2.7.2. The Contractor shall provide data display capability in Tucson, Arizona, in Crystal City (Arlington, Virginia) for the PEO IWS3 office, at the Aegis BMD program office in Dahlgren, Virginia, at (b)(4) (b)(4) in (b)(4) and other sites as directed by the Aegis BMD program office so that real time flight information can be displayed.

1.4.2.7.3. The Contractor shall provide ongoing real-time Video Teleconference (VTC) capabilities with multiple sites.

1.4.2.7.4. The STB support will use the MDACnet, and/or other government provided networks for connectivity between the test range, the contractor, and display sites.

1.4.2.8. Failure Investigation

The Contractor shall provide Failure Analysis support for Failure Investigation Teams (FIT) and Failure Review Boards (FRB) as directed by the Aegis BMD program office for the STANDARD Missile-3 program.

1.4.2.9. End To End Distributed Development System (ETEDDS)

The Contractor shall maintain and advance the architecture for a link between 6-DOF/CIL/HIL/ETB missile simulations and the Combat Systems Engineering Development Site (CSEDS) and continue development of distributed simulation tool requirements with the system evolution.

1.4.2.9.1. The Contractor shall continue to analyze missions and upgrade ETEDDS simulations, as necessary to support SM-3 Missile missions.

1.4.2.9.2. The Contractor shall use ETEDDS to support live fire testing as mutually agreed to by the Contractor and the Government. This will include test plans, Mission Control Panel (MCP) support, mission support, final test reports and other necessary functions for each flight test.

1.4.2.9.3. The Contractor shall continue the engineering development effort for an ETEDDS test capability for selected tactical scenarios and continued refinement of an Interface Test build.

1.4.2.9.4. The Contractor shall procure interface, communications, computer equipment, and software required for continued development and maintenance of the ETEDDS simulation test position.

1.4.2.10. Systems Engineering and Integration (SE&I) Support

The Contractor shall support PD452 meetings/efforts, assist in program definition, perform SE efforts and support Aegis BMD program flight test efforts to support Aegis BMD Program Systems Engineering and Integration activities approved by the Missile Defense Agency (MDA).

1.4.2.10.1. The Contractor shall support preparations for milestone reviews by developing system architecture approaches. The contractor shall conduct studies, analyses, and cost estimates as directed by the Aegis BMD program office to support the Aegis BMD SE&I effort.

1.4.2.10.2. Systems Engineering (SE)

The Contractor shall perform Systems Engineering efforts as follows:

1.4.2.10.2.1. The Contractor shall participate in SE working groups to further develop processes applicable to the Aegis BMD SE&I effort.

1.4.2.10.2.2. The Contractor shall assist in performing Top Level System Trade Studies continuing the evolution of a joint operational concept for the Aegis BMD.

1.4.2.10.2.3. The Contractor shall characterize System Level Performance Parameters for Aegis BMD assets and potential upgrades. Assist in determining present joint asset system performance capabilities to develop baseline capability. Match these asset performance capabilities with the mission and system requirements to determine system and technology gaps. Provide inputs and support to the Performance Assessment Management Team (PAMT).

1.4.2.10.2.4. The Contractor shall assist in the development of function allocation of the performance capabilities for the Aegis BMD system. Include timelines and functional flows. Conduct simulation studies in support of the parametric evaluation of system options and further develop the system design. Provide inputs and support to system design and coordination working groups.

1.4.2.10.2.5. The contractor shall use operations research and performance simulations to assist in defining and implementing a design process for developing a tool to support joint mission definition, trade studies, requirements determination, and scenario visualization. The Contractor shall use existing tools wherever possible and consolidate as appropriate to optimize SE support.

1.4.2.10.2.6. The Contractor shall support definition of systems and technology options to populate the solution set for the AEGIS BMD system. Establish and apply development and risk metrics to support detailed technical trades to define new or additional national assets required to fill the identified system gaps. Assess each option against a total ownership cost model.

1.4.2.10.2.7. The Contractor shall support concept definition teams for future development. This shall include systems engineering performance and functional trades necessary to develop alternatives for evolving options, plus schedules and cost estimates.

1.4.2.10.3. Program Flight Test Support

1.4.2.10.3.1. The Contractor shall support the program technical staff in the planning and coordination for each flight test along with onsite support at various Government facilities.

1.4.2.10.3.2. The Contractor shall coordinate with MDA, Navy and associate contractors in the preparation and implementation of the photo plan for each flight test.

1.4.2.10.3.3. The Contractor shall develop and prepare program specific public announcement plans and press releases for each flight test. Support in the arranging for proper media coverage and public release of media documentation for each test flight.

Conference Support

1.4.2.10.3.4. The Contractor shall prepare, design, develop and coordinate with the Navy and associate contractors the Aegis BMD presentation to be presented at conferences throughout the year.

1.4.2.11. Weapons Systems Integration

The Contractor shall conduct performance analysis and verification using the End To End Distributed Development System as part of a capability verification tool to support integration testing of changes made to the interface between the SM-3 Missile and Aegis Weapons System.

1.4.2.12 Surveillance and Service Life Evaluation Test Plan (SLEP)

The Contractor shall review, update and submit the revised SLEP plan for approval (Attachment 5). Upon approval of the plan, the contractor shall implement the comprehensive extension plan for the SM-3 GMR. The testing shall include all major subsystems with the intent of evaluating components for a service life extension objective of twelve years with a goal of sixteen years. The testing shall include all required accelerated aging, energetic testing, subsystem testing, analysis, review and documentation to increase the GMR service life. A final test report shall be delivered to the government for final approval. (A016)

1.4.3. CLIN 0006 – Post Development Systems Engineering (LOE – CPAF)

1.4.3.1. Systems Engineering (SE)

1.4.3.1.1. Integrated Product Team (IPT) Lead.

The Contractor shall continue to provide a SE Co-Lead of the SE IPT. This IPT will have a government and contractor Co-Lead. IPT leads shall maintain close technical, cost and schedule communication with their government counterparts. The Contractor shall continue to maintain and update the System Engineering Management Plan (SEMP).

1.4.3.1.2. Systems Design and Requirements

1.4.3.1.2.1. Planning and Requirements Analysis.

The Contractor shall continue to maintain and support development of Aegis BMD requirements in accordance with the Aegis BMD for future SM-3 Missile architectures. The contractor support shall include but is not limited to performance analysis, sensitivity trade studies, flow-down of requirements, and specialty engineering analysis.

1.4.3.1.2.2. Missile Requirements and Design Support.

The Contractor shall continue to perform requirements trade studies and flow-down of TLR. The Contractor shall maintain and update applicable design requirement documents and the Electrical and Mechanical interface control documents for future architectures. The Contractor shall develop and update acceptance requirements. The Contractor shall demonstrate requirements traceability to ensure the system meets requirements. The Contractor shall support the planning of requirements verification and track the comprehensive verification efforts. The Contractor shall continue the cooperative effort with the Combat System Engineering Agent (CSEA) and Navy agencies to address requirements definition and allocation, supporting studies, concept of operation, preliminary design/concepts and interface definition of the SM-3 GMR with the Aegis Weapons System.

1.4.3.1.3. Design Coordination

1.4.3.1.3.1. The Contractor shall continue to maintain and support development of the future GMR ICDs, Value Engineering Change Proposals (VECP) integration, design and construction requirements, supporting engineering analysis, and product specifications.

1.4.3.1.3.2. The Contractor shall continue to support advanced technology insertion into the SM-3 Missile. This includes system engineering support for the integration of VECPs, definition of Special Test Equipment (STE) requirements, and coordination of upgrades across the engineering disciplines.

1.4.3.1.4. Functional Design

1.4.3.1.4.1. The Contractor shall maintain and update various SM-3 simulations and models. These simulations shall be used to support performance analysis, trade studies, requirement change impacts, operational concepts and risk evaluation and mitigation. The Contractor shall support 6-DOF simulation Verification and Validation (V&V). The Contractor shall maintain and update the functional model of the GMR to support the analysis of the Missile Timeline and system/subsystem interface timing. The Contractor shall continue evaluation of and perform required updates to the SM-3 guidance and control algorithm/software development.

1.4.3.1.4.2. The Contractor shall support technology and capability studies associated with future Aegis Block Ix planning.

1.4.3.1.5. Simulation Tools

1.4.3.1.5.1. Computer in the Loop (CIL). The Contractor shall continue development and augmentation of CIL simulations and hardware to host the future Block Ix configurations. The Contractor shall continue upgrades to existing KW CIL hardware platforms and simulations to enable hosting of applicable system configuration hardware and to perform CIL integration. The Contractor shall provide adequate missile and KW CIL capacity to accommodate all required capabilities.

1.4.3.1.5.2. Guidance Section Evaluation Laboratory (GSEL). The Contractor shall continue upgrades to the GSEL to enable hosting future SM-3 hardware Engineering Test Bed (ETB). The Contractor shall complete development of and implement an ETB to enable the hosting of Block IB Missile hardware. The Contractor shall use the ETB to support development integration and test activities.

1.4.3.1.5.3. Air Defense Simulations. The Contractor shall maintain and update an air defense simulation tool to support performance analysis and trade studies, performance impacts of requirement changes, operational concepts, and other tasks.

1.4.3.1.6. Discrimination Algorithm Design

The Contractor shall continue development and evaluation of advanced discrimination techniques for appropriate threat sets. The Contractor shall continue investigation and implementation of additional feature estimation and classification techniques. The Contractor shall lead the effort to investigate feature matching concepts for improved Radio Frequency/Infrared (RF/IR)

sensor data correlation and handover and coordinate with the appropriate Government agencies.

1.4.3.2. Hardware

The Contractor shall be the Responsible Engineering Authority (REA) for all design upgrades through completion of verification, process upgrade proofing, and completion of the established verification process through all design ground tests and release of design documentation. The Contractor design activities shall consider all the elemental requirements contained within both the PIDS and the designated threats from the Design Input Data Package (DIDP) for Aegis BMD.

1.4.3.2.1. IPT Lead. The Contractor shall continue to provide a Hardware Co-Lead for this IPT. This IPT will have government and contractor Co-Leads. IPT leads shall maintain close technical, cost and schedule communication with their government counterparts. The Contractor shall provide planning, coordination and oversight of the hardware activities associated with the development of the SM-3 Missile.

1.4.3.2.2. Warhead. The contractor shall upgrade the design of, procure parts and assemblies for, fabricate, assemble, and test all future configurations of warheads.

1.4.3.2.3. Other Hardware. The Contractor shall continue to maintain and upgrade the design of and procure other components in support of the future design.

1.4.3.3. Propulsion

The Propulsion IPT is responsible for the First Stage Rocket Motor (Booster), Second Stage Rocket Motor, Third Stage Rocket Motor, and Divert & Attitude Control System (DACS).

1.4.3.3.1. Propulsion Team.

The Contractor shall continue to provide a Propulsion Co-Lead for this IPT. This IPT will have government and contractor Co-Leads. IPT leads shall maintain close technical, cost and schedule communication with their government counterparts. The Contractor shall provide technical and subcontract management support.

1.4.3.3.2. DACS.

1.4.3.3.3. The Contractor shall conduct analyses supporting the detailed design efforts including Computational Fluid Dynamics (CFD), thermal, structural, dynamic, mass properties and performance assessments for the DACS design. CIL simulations shall also be required for the controller and software.

1.4.3.3.3.1. The Contractor shall complete DACS design and qualification testing. The Contractor shall perform integration activities for SM-3 Missile software build with the DACS software. The Contractor shall update the 6-DOF model with the DACS model. The Contractor shall develop and update requirements. The Contractor shall complete design activities for upgrade to the warhead CIL with the DACS simulator. The Contractor shall complete SM-3 DVT planning, testing and implementation to support DACS integration.

1.4.3.3.4. SM-3 Third Stage. The Contractor shall continue to maintain and upgrade the design of, procure parts and assemblies for, assemble, and test all future configurations of SM-3 third stage assemblies.

1.4.3.3.5. SM-3 Second Stage. The Contractor shall procure second stage assemblies and services for the development components. The Contractor shall track and manage the inert second stages used for IOMs and provide support to allocation of the Government furnished second stages to meet the requirements of the Technology Development Program.

1.4.3.3.6. SM-3 First Stage (Boosters). The Contractor shall procure first stage assemblies and services for the development components. The Contractor shall monitor and track existing first stage inert assemblies.

1.4.3.4. Hardware Analysis

The Contractor shall perform structural, thermal, electrical and other analyses. The Contractor shall perform integration and test planning of subsystem and system DVT required to ensure compliance with evolving system level requirements. The Contractor shall continue support to Aegis BMD Program planning activities.

1.4.3.4.1. Highly Accelerated Life Test (HALT). The Contractor shall perform HALT and develop a plan to include components and subassemblies on which HALT will be performed, environments used and number of design update cycles performed.

1.4.3.5. Software

The Contractor shall continue evaluation of software upgrades and perform required software changes as well as update the algorithm/software development schedule for Aegis BMD. Software development shall support the threats as described in the TLR document and the designated threats from the DIDP. The Contractor shall ensure that software development and implementation follows an incremental build philosophy. The Contractor shall conduct reviews as appropriate for each build prior to release.

1.4.3.5.1. IPT Lead. The Contractor shall continue to provide planning, coordination and oversight of the software activities associated with the development of SM-3 GMRs. This shall include updating and maintaining the Software Development Plan (SDP), maintenance, and reporting.

1.4.3.5.2. Warhead. The Contractor shall update and maintain the software and documentation for changes in the warhead including the Signal Processor and Guidance Processor to meet round level requirements. The Contractor shall perform testing and/or analyses required to verify performance changes. The Contractor shall supply diagnostic software for advanced signal processor development.

1.4.3.5.3. Stage 2/Stage 3.

The Contractor shall continue to update the software and documentation for any changes in the Stage 2/Stage 3 software to meet round level requirements. The Contractor shall perform analyses and/or testing required to verify performance of any changes.

1.4.3.5.4. Software Integration and Test

1.4.3.5.4.1. The Contractor shall perform continuing CIL software builds. The Contractor shall perform Formal Qualification Test (FQT) and integration

of software builds. The Contractor shall support all V&V activities. The Contractor shall develop test plans, software test descriptions and software test reports for each Computer Software Configuration Item (CSCI). The Contractor shall perform software trouble reporting, track computer software trouble reports for all software anomalies and support section and round integration during ground and flight tests.

1.4.3.6. GMR Integration, Test and Analysis

1.4.3.6.1. IPT Leads. The Contractor shall continue to provide an Integration, Test and Analysis Co-Lead for this IPT. This IPT will have government and contractor Co-Leads. IPT leads shall maintain close technical, cost and schedule communication with their government counterparts.

1.4.3.6.2. Assembly/Test/Analysis.

The Contractor shall assemble sections to the inert round level including the KW. The contractor shall test and analyze resulting data to assure the round compliance to requirements.

1.4.3.6.3. Design Verification Tests (DVT).

1.4.3.6.4. The Contractor shall plan and support the execution of DVTs including the coordination of IOM asset utilization, communication/coordination with supporting Government agency test facilities and all activities associated with the performance of the DVTs. Tests conducted by the Contractor shall include test plans/procedures and test reports. The Contractor shall fabricate, integrate and support Hazard Assessment Test assets and tests as defined in the government approved Hazard Assessment Test Plan.

1.4.3.6.5. The Contractor shall conduct Electromagnetic Environmental Effects (E3) testing and provide final test reports for: Electrostatic Discharge; Electromagnetic Interference; Direct Current Magnetics.

1.4.3.6.6. The Contractor shall conduct Live Battery Testing and provide final test reports.

1.4.3.6.7. The Contractor shall perform Hardware/Software margin characterization testing and provide final test reports.

1.4.3.6.8. The Contractor shall complete Performance Verification Reviews and provide final reports for all Key Item Development Specifications, Prime Item Development Specifications, Critical Item Development Specifications and Interface Requirement Specifications.

1.4.3.7. STE Development and Maintenance.

The Contractor shall maintain and upgrade the design of all required STE. The Contractor shall modify, upgrade, procure, and provide procedure proofing for all STE required to verify and accept hardware and software associated with upgrades in SM-3 Missiles. Any update to the STE roadmap shall have Aegis BMD program office approval prior to implementation.

1.4.4. CLIN 0008 (OPTION) and 0024 - Foreign Military Sales (FMS) Engineering Services (LOE – CPAF)

1.4.4.1. Manufacturing Support.

The Contractor shall provide the necessary missile engineering services to support manufacture of all configurations of FMS GMRs. In accordance with DFAR 252.204-7008, the Contractor is responsible for compliance with all regulations regarding export –controlled items. The Contractor may export technical data defense articles, and provide defense services to the foreign nationals designated herein, pursuant to International Traffic in Arms Regulations (ITAR) exemption 126.6c, Foreign Military Sales Exemption. The transfer of defense articles, technical data or defense services takes place only during the validity period of the Letter of Offer and Acceptance (LOA) and when implementing United States Government FMS contracts and subcontracts are in effect and serve as authorization.

1.4.4.2. Flight Test Support

The Contractor shall provide Engineering Services throughout the build-up of all flight test rounds to support all required pre-flight activities including but not limited to Scenario Certification, pre-MCP, MCP, MRR, WIT and all post RFI activities associated with a flight through flight mission data analysis. The Contractor shall continue to maintain the System Test Bed in support of the flight test program.

1.4.4.2.1. The Contractor shall provide high fidelity real time displays for visualization of the flight missions in both the shipboard Combat Information Center (CIC) and the Range Operations Control Center Tracking and Control Room D (ROCC-Delta) at Pacific Missile Range Facility (PMRF).

1.4.4.2.2. The Contractor shall provide data display capability in Tucson, Arizona, Crystal City, (Arlington, Virginia) for the PEO IWS3 office, at the Aegis BMD program office in Dahlgren, Virginia, at (b)(4) (b)(4) in (b)(4) and other sites as directed by the Aegis BMD program office so that real time flight information can be displayed.

1.4.4.2.3. The Contractor shall provide ongoing real-time Video Teleconference (VTC) capabilities with multiple sites.

1.4.4.2.4. The STB support will use the MDACnet, and/or other government provided networks for connectivity between the test range, the contractor, and display sites.

1.4.4.3. Concept Studies

The Contractor shall provide Engineering Services in support of concept studies on the potential integration and operation of the STANDARD Missile-3(SM-3) System on sea-based platforms in use by an allied country as requested by the U.S. Government.

1.4.4.3.1. Requirements Definition. The Contractor shall support the development and definition of requirements for SM-3 implementation on the requested sea-based platform. These requirements include system architecture, concepts of operations, system effectiveness, communication link configurations, definition of modifications to launch systems and other shipboard interfaces, ship system/missile alignments, missile hardware requirements, software algorithms, and system requirements as they relate to SM-3 Missile operation.

1.4.4.3.2. Capability Analysis. The contractor shall perform simulation and trade studies to define and analyze SM-3 performance, battlespace, handover accuracies, error containment, missile inertial guidance, containment, and

capabilities associated with the subject sea-based platform. These capabilities to be analyzed shall include missile hit probabilities, kill assessment, discrimination studies, engagement scenarios, radar sensitivity, threat analysis and communications latency effects. These tasks also include comparison assessments with independent studies performed by other contractors and/or government centers. The Contractor shall provide a final report of the capability analysis.

1.4.4.3.3. Planning Activity Support. The Contractor shall provide inputs to the planning of program level tasks such as system analyses, ground tests, risk reduction testing, and program planning.

1.4.4.3.4. Management Support. The Contractor shall provide management, technical direction, administration, planning and cost control for the tasks described herein.

1.4.4.3.5. Technical and Program Reviews. The Contractor shall support Technical and Program Reviews. This task shall include support for teleconferences, coordination meetings, technical interchange meetings, and Program Management Reviews, both domestic and international.

1.4.4.3.6. Final Report. The Contractor shall provide a final report of the requested concept study.

1.4.5. CLIN 0010 - STE/Tooling to Support A Rate of (b)(4) Per Month (Completion – CPIF)

The Contractor shall support SM-3 Aegis BMD Block IB manufacturing to achieve a GMR production rate capability of (b)(4) SM-3 Block IB Guided Missile Rounds per month.

1.4.5.1. Engineering and Logistics.

The Contractor shall initiate non-recurring Engineering Support to meet required production rate capability.

1.4.5.2. Manufacturing and Test Implementation

1.4.5.2.1. Production Control and Common Implementation.

The Contractor shall plan and implement production lines and processes suitable to produce consistent quality and quantities of SM-3 Missiles. This shall include work towards rate optimization, validated test software, test instructions, test equipment hardware and software configurations, resolving test failures, manpower training, certification, material planning requirements, material control and containers.

1.4.5.2.2. Missile Manufacturing.

This effort shall include initial technical direction/REA support, manufacturing support, and production test support. The Contractor shall develop planning, training, assembly, and test processes.

1.4.5.3. Special Test Equipment (STE).

The Contractor shall initiate the planning and implementation of non-recurring efforts to develop and proof in STE sufficient to meet the required production rate capability.

1.4.5.4. Facilitization.

The Contractor shall initiate the planning and implementation of the necessary facility accommodations/modifications to meet the required production rate capability.

1.4.6. CLIN 0012 (OPTION) - STE/Tooling to Support A Rate Increase of (b)(4) to (b)(4) Per Month (Completion – CPIF)

The Contractor shall support SM-3 Aegis BMD Block IB manufacturing to achieve an increase in GMR production rate capability from (b)(4) SM-3 Block IB Guided Missile Rounds per month.

1.4.6.1. Engineering and Logistics.

The Contractor shall initiate non-recurring Engineering Support to meet required production rate capability.

1.4.6.2. Manufacturing and Test Implementation

1.4.6.2.1. Production Control and Common Implementation.

The Contractor shall plan and implement production lines and processes suitable to produce consistent quality and quantities of SM-3 Missiles. This shall include work towards rate optimization, validated test software, test instructions, test equipment hardware and software configurations, resolving test failures, manpower training, certification, material planning requirements, material control and containers.

1.4.6.2.2. Missile Manufacturing.

This effort shall include initial technical direction/REA support, manufacturing support, and production test support. The Contractor shall develop planning, training, assembly, and test processes.

1.4.6.3. STE.

The Contractor shall initiate the planning and implementation of non-recurring efforts to develop and proof in STE sufficient to meet the required production rate capability.

1.4.6.4. Facilitization.

The Contractor shall initiate the planning and implementation of the necessary facility accommodations/modifications to meet the required production rate capability.

1.4.7. CLIN 0013 (OPTION) - Program Protection (LOE – CPAF)

The Contractor shall analyze, design, and implement program protection as determined by the program vulnerability assessment. The Contractor shall perform system trade studies in support of program protection.

1.4.8. CLIN 0015 - Block IB Advanced Discrimination Improvements (LOE – CPAF)

The Contractor shall modify the software and firmware design, develop, and support testing of a Block IB GMR with Advanced Discrimination architecture.

1.4.8.1. Systems Engineering (SE)

1.4.8.1.1. Integrated Product Team (IPT) Lead.

The Contractor shall continue to provide a SE Co-Lead of the SE IPT. This IPT will have a government and contractor Co-Lead. IPT leads shall maintain close technical, cost and schedule communication with their government counterparts. The Contractor shall continue to maintain and update the System Engineering Management Plan (SEMP).

1.4.8.1.2. Systems Design and Requirements

1.4.8.1.2.1. Planning and Requirements Analysis.

The Contractor shall continue to maintain and support development of Aegis BMD requirements in accordance with the Aegis BMD Element Capability Specification (ECS) and the Top Level Requirements (TLR). The contractor shall provide a trace of all requirements (PIDS, CIDS, CIPS, KIDS, KIPS, IRS, SRS and other) to the TLR using DOORS. The contractor support shall include but is not limited to performance analysis, sensitivity trade studies, flow-down of requirements, and specialty engineering analysis.

1.4.8.1.2.2. Missile Requirements and Design Support.

The Contractor shall continue to perform requirements trade studies and flow-down of TLR and maintain and update the missile Prime Item Development Specification (PIDS), section level Critical Item Development Specifications (CIDS), Critical Item Product Specifications (CIPS), Key Item Development Specifications (KIDS), Key Item Product Specifications (KIPS), Interface Requirement Specifications (IRS), Software Requirement Specifications (SRS) and other applicable design requirement documents. The contractor shall provide trace of all requirements (PIDS, CIDS, CIPS, KIDS, KIPS, IRS, SRS and other) to the TLR using DOORS. The Contractor shall develop and update acceptance requirements. The Contractor shall demonstrate requirements traceability in preparation for DVT, flight tests, Six Degrees of Freedom (6-DOF) simulations, Computer In-the Loop (CIL)/Hardware-In-Loop (HIL) tests and other tests to ensure the system meets requirements. The Contractor shall support the planning of requirements verification and track the comprehensive verification efforts. The Contractor shall update the Electrical and Mechanical Interface Control Documents (ICDs) to reflect the future configurations. The Contractor shall continue the cooperative effort with (b)(4) and Navy agencies to address requirements definition and allocation, supporting studies, concept of operation, preliminary design/concepts and interface definition of the SM-3 GMR with the Aegis Weapons System.

1.4.8.1.3. Design Coordination

1.4.8.1.3.1. The Contractor shall continue to maintain and support development of the future GMR ICDs, Value Engineering Change Proposals (VECP) integration, design and construction requirements, supporting engineering analysis, and product specifications.

1.4.8.1.3.2. The Contractor shall continue to support advanced technology insertion into the SM-3 Missile. This includes system engineering support for the integration of VECPs, definition of Special Test Equipment (STE) requirements, and coordination of upgrades across the engineering disciplines.

1.4.8.1.4. Functional Design

1.4.8.1.4.1. The Contractor shall maintain and update various SM-3 simulations/models to include: Interactive Theater Air Defense System (ITADS), Trim Aero Five Degrees of Freedom (5-DOF), Kinetic Warhead (KW) 6-DOF, Missile 6-DOF, and other simulations. These simulations shall be used to support: performance analysis, trade studies, requirement change impacts, operational concepts and risk evaluation and mitigation. The Contractor shall support 6-DOF simulation Verification and Validation (V&V). The Contractor shall maintain and update the functional model of the GMR to support the analysis of the Missile Timeline and system/subsystem interface timing. The Contractor shall continue evaluation of and perform required updates to the SM-3 guidance and control algorithm/software development.

1.4.8.1.4.2. The Contractor shall support technology and capability studies associated with future Aegis Block planning.

1.4.8.1.5. Simulation Tools

1.4.8.1.5.1. CIL. The Contractor shall continue development and augmentation of CIL simulations and hardware to host the Future Missile configurations. The Contractor shall continue upgrades to existing KW CIL hardware platforms and simulations to enable hosting of applicable system configuration hardware and to perform CIL integration. The Contractor shall provide adequate Missile and KW CIL capacity to accommodate all program schedule and plans.

1.4.8.1.5.2. Guidance Section Evaluation Laboratory (GSEL). The Contractor shall continue upgrades to the GSEL to enable hosting Future Missile hardware.

1.4.8.1.5.3. Engineering Test Bed (ETB). The Contractor shall complete development of and implement an ETB to enable the hosting of SM-3 Missile hardware. The Contractor shall use the ETB to support development integration and test activities.

1.4.8.1.5.4. ITADS. The Contractor shall continue to update and use ITADS to support performance analysis and trade studies, performance impacts of requirement changes, and operational concepts.

1.4.8.1.6. Discrimination Algorithm Design

The Contractor shall continue development and evaluation of advanced discrimination techniques for appropriate threat sets. The Contractor shall continue investigation and implementation of additional feature estimation and classification techniques. The Contractor shall lead the effort to investigate feature matching concepts for improved Radio Frequency/Infrared (RF/IR) sensor data correlation and handover and coordinate with the appropriate Government agencies.

1.4.8.2. Software

The Contractor shall continue evaluation of software upgrades and perform required software changes as well as update the algorithm/software development schedule for Aegis BMD. Software development shall support the threats as described in the TLR document and the designated threats from the DIDP. The Contractor shall ensure that software development and implementation follows an incremental build philosophy. The Contractor shall conduct reviews as appropriate for each build prior to release.

1.4.8.2.1. IPT Lead. The Contractor shall continue to provide planning, coordination and oversight of the software activities associated with the development of SM-3 GMRs. This shall include updating and maintaining the Software Development Plan (SDP), maintenance, and reporting.

1.4.8.2.2. KW. The Contractor shall update and maintain the software and documentation for changes in the KW including the Signal Processor and Guidance Processor to meet round level requirements. The Contractor shall perform testing and/or analyses required to verify performance changes. The Contractor shall supply diagnostic software for advanced signal processor development.

1.4.8.2.3. Stage 2/Stage 3.

The Contractor shall continue to update the software and documentation for any changes in the Stage 2/Stage 3 software to meet round level requirements. The Contractor shall perform analyses and/or testing required to verify performance of any changes.

1.4.8.2.4. Software Integration and Test

1.4.8.2.4.1. The Contractor shall perform continuing CIL software builds. The Contractor shall perform Formal Qualification Test (FQT) and integration of software builds. The Contractor shall support all V&V activities. The Contractor shall develop test plans, software test descriptions and software test reports for each Computer Software Configuration Item (CSCI). The Contractor shall perform software trouble reporting, track computer software trouble reports for all software anomalies and support section and round integration during ground and flight tests.

1.4.9. CLIN 0017 Travel (Cost Only)

In addition to local travel, the Contractor may be required to travel throughout the Continental United States (CONUS) and to foreign countries to support SM3 Missile Development.

MDA recognizes that development of the SM-3 Missile required of this procurement will require incurrence of travel costs. The program desires to keep these costs to the minimum necessary to accomplish the project requirements. The most significant costs result from travel that is extended or frequently recurring.

In order to minimize travel costs, the Contractor and its subcontractors at all tiers shall comply with DoD Joint Travel Regulations (JTR) in conducting travel of employees. All travel shall be conducted in accordance with the JTR unless the COR approves an exception in writing. The JTR stresses that the duties performed while on temporary duty (TDY) travel must be temporary in nature, and assignments must not be of such

frequency or duration that a place of assignment becomes, in fact, an employee's long-term work location. The JTR specifically requires that recurring travel to one location with full short-term TDY reimbursement must not exceed 180 days in duration (inclusive of breaks such as weekend trips home). Whenever recurring travel to one location is expected to last more than 180 days, consideration of less costly alternatives is required, such as Permanent Change of Station (PCS), Temporary Change of Station (TCS), or long-term TDY at reduced fixed per diem. In any instance in which recurring travel to one location for more than 180 days is planned for personnel at any tier, the Contractor shall obtain prior written approval from the TI Manager and the request for approval shall include a cost comparison addressing PCS, TCS, and long-term TDY. Recurring travel to one location for work can also result in income tax implications for employees. Starting at the point in time when recurrent travel to a single location realistically became expected to last for more than one year, the Internal Revenue Service treats the employment at that location as indefinite and travel reimbursement as taxable income. The Contractor will not be reimbursed for any income tax liability incurred by personnel at any tier.

1.4.10. CLIN 0019 - Service Life Extension Program (Completion - CPIF)

The Contractor shall execute the Service Life Extension Program (SLEP) described in paragraph 1.4.2.12 of this contract and approved by the Aegis BMD program office. This program will address the requirements identified in the approved program plan.

2. APPLICABLE DOCUMENTS

The following documents shall be utilized:

MILITARY STANDARDS/SPECIFICATIONS AND OTHER DOCUMENTATION

Document Number	Document Title	Date (See Note)
MDA Documents		
MDA Directive 3002.03	Ballistic Missile Defense System Test Policy	15 Jan 2009
MDA Directive 3002.03-M	Ballistic Missile Defense System Test Concept of Operations	8 Apr 2009
MDA Directive 4250.02	MDA Directive 4250.02 – MDA Cost Estimates	26 Aug 2006
MDA Directive 5200.01	Security Policy	27 July 2006
MDA Directive 5200.05	Anti-Tamper Policy	18 Jul 2006
MDA Instruction S-5230.28	Low Observable (LO) and Counter Low Observable (CLO) Programs	26 May 2005
MDA-QS-001-MAP	MDA Assurance Provisions Revision A	*Current Version
MDA-QS-003-PMAP	MDA Parts Materials and Processes Mission Assurance Plan	*Current Version
MDA Plan 8500.02-P	MDA Information Assurance Program Plan	3 Oct 2007
2008-2 BMDS	Adversary Data Package for BMDS Integrated Build D	12 Jun 2008
2008-2.1 BMDS	Adversary Data Package for BMDS Integrated	12 Jun 2008

	Build D Addendum 1, European Capability Revision A	
MDA/AB, AB-08-Aegis BMD.CMP.001 Rev B	Configuration Management Plan for The Aegis BMD Program	14 May 2008
SM-3 MAIP AB.06.SM-3.MAIP.REV	Standard Missile-3 (SM-3) Mission Assurance Implementation Plan (MAIP)	*Current Version
	Aegis Ballistic Missile Defense Risk Management Plan Rev 4.0	20 Jun 2008
	Integrated System Safety Management Plan for The Aegis Ballistic Missile Defense Program	Aug 2005
	Ballistic Missile Defense System Integrated Test Plan (IMTP) version 10.02	27 July 2009
MDA PM 33	MDA Modeling & Simulation (M&S) Strategic Plan	21 Feb 2006
MDA PM 50	Purchasing Electronic Parts	29 June 2009

*As document is updated to reflect modifications in requirement, program can adjust accordingly to maintain compliance levels and keep program risks at a minimal.

Document Number	Document Title	Date (See Note)
MIL-STD-129P(3)	Military Marking for Shipment and Storage	29 Oct 2004
MIL-STD-130M	Identification Marking of U. S. Military Property	2 Dec 2005
MIL-HDBK-454B	General Guidelines for Electronic Equipment	15 Apr 2007
MIL-STD-882D	System Safety	10 Feb 2000
MIL-STD-1285D	Marking of Electrical and Electronic Parts	7 Sep 2004
MIL-STD-1686C	Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts, Assemblies and Equipment (Excluding Electrically Initiated Explosive Devices)	25 Oct 1995
MIL-STD-31000	DoD Standard Practice Technical Data Packages	5 Nov 2009

OTHER DOCUMENTATION

Document Number	Document Title	Date (See Note)
ISO Q9001-2000	Quality Systems – Model for Quality Assurance in Design, Development, Production, Installation and Servicing	13 Dec 2000
ANSI/EIA 748	Earned Value Management Systems	
ASTM D 3951-98	Standard Practice for Commercial Packaging	13 Dec 1998
DoD 5000.4-M-1	Cost and Software Data Reporting (CSDR) Manual	
DoDI 5000.2	Operation of the Defense Acquisition System	20 Feb 2004
DoD 5200.1-M	Acquisition Systems Protection Program	8 Dec 2008
DoDI 5200.39	Critical Program Information (CPI) Protection	Mar 1994
DoDD 5220.22-M	National Industrial Security Program Operating Manual dated 28 Feb 2006 and Supplement 1 dated	16 Jul 2008

	29 Dec 1994	
DoDD 8500.01E	Information Assurance (IA)	28 Feb 2006
DoDD 8570.01	IA Training, Certification & Workforce Management	23 Apr 2007
DoDI 8500.02	IA Implementation	23 Apr 2007
DoDI 8580.01	IA in the Defense Acquisition System	6 Feb 2003
7454929 53711-1	SM-3 BLK I/IA AND MK41 VERTICAL LAUNCHING SYSTEM MK 21 MOD 2 CANISTER Mechanical Interface Control Document (MICD)	11 Apr 2005
IEEE/EIA 12207	Information Technology – Software Life Cycle Processes	
MD 56145	Test Equipment Secondary Change Control Board Configuration Management Plan	27 May 1998
MD 56303	Test Requirements Document for Encanistered SM-2 BLOCK IV and VLS Canister MK 21 MOD 0	14 Jul 1995
MD 56658A	Naval Weapons Station and Contractor Support Facility Tracking and Handling Procedures for STANDARD Missile IOMs, ITMs, and Special Project Hardware	18 May 1993
MD 57104A, Change 1	STANDARD Missile Program Quality and Reliability Program Provisions for SM-2	26 Jun 2000
MD 57579	SM-3 AUR Processing Requirements	1 Mar 2007
NAVSEA SO300-BU-GYD-010	Government Industry Data Exchange Program (GIDEP) Requirements Guide	Nov 1994
NAVSEA SW020-AC-SAF-010/020/030	Transportation and Storage Data for Ammunition, Explosives and Related Hazardous Materials	15 Sep 1992
NAVSEAINST 5400.52A	Industrial Engineering for Surface Missile and Propulsion Processing Documentation	16 Sep 1986
NAVSEAINST 8020.8B	Explosives Hazard Classification Procedures	5 Jan 1998
NAVSEAINST 8020.9B	Ammunition and Explosives Personnel Qualification and Certification Program	21 May 2001
Army AR 55-355 Vol 3	Defense Traffic Management Regulation, Transportation Facility Guide, Navy, The Marine Corps, and The Coast Guard	1 Feb 1990
OD 31460, Rev 18	STANDARD Missile Major Parts interchangeability Data dated	28 May 2003
OP-5	Ammunition and Explosive Ashore, Safety Regulations for Handling, Storing, Production, Renovation and Shipping	
OR-68	Ordnance Requirement, Packing STANDARD Missile in Shipping and Storage Container	
OR-99B	Intermediate and Support Maintenance of Weapons Packaging, Handling, Storage and Transportation Equipment	5 Oct 1972
SMPD	Surface Missile Processing Descriptions STANDARD Missile	
ST-890-DI-MMI-010	Intermediate Maintenance Activity System Operation and Maintenance Manual with Illustrated Parts Breakdown for Combined Missile Test Set, MK 680 MOD 1	19 Jul 1995

SW820-AF-CMP-050	Description, Maintenance, and Repair Parts Breakdown Surface Vertical Launch System Support Equipment	
MDA Instruction 3058.01	MDA Instruction - Risk Management	2 April 2009
INST-SM3-008	Raytheon Missile Systems SM-3 Critical Handling Process	4 Apr 2006
WS33744	Aegis BMD S004 SM-3 Top Level Requirements	23 Mar 2005
WS35176	Block IB Top Level Requirements	1 Oct 2008
AS9100 Revision A	Quality Systems-Aerospace-Model for Quality Assurance in Design, Development, Production, Installation, and Servicing	August 2001

3. PROGRAM MANAGEMENT REQUIREMENTS

3.1. General Management.

The Contractor shall provide all personnel, facilities, materials, technology, and services necessary to perform the tasks described in this SOW.

3.1.1. Government Technical Representatives:

The Contractor shall make provisions for a Government Technical Representative(s) to be resident at each Contractor facility where program management functions reside and missile hardware/software is produced. The Contractor shall make available support services and office space for resident Government personnel, to include the following:

- 3.1.1.1. Office space and furnishings to include desks, chairs and file cabinets,
- 3.1.1.2. Facility mail service with a code designated for the Government agent,
- 3.1.1.3. Utilities and separate telephone lines through a facility exchange,
- 3.1.1.4. Transportation of Government personnel in restricted areas,
- 3.1.1.5. Janitorial services,
- 3.1.1.6. Access to all development, test, and integration laboratories.

3.1.2. Government Furnished Property.

(DI-MGMT-80269) The Contractor shall track, manage, and provide an electronic status report, in accordance with the applicable Contract Data Requirements List (CDRL), describing the condition and usage status of GFP received under this contract. In the report, the Contractor shall also document part numbers and National Stock Numbers (NSNs), when available, and justify any requested changes in availability compared to the GFP schedule in the contract. (A009)

The Contractor shall repair and test GFP items to support program test and flight hardware. The Contractor shall modify, fabricate, and check out STE in sufficient quantity to support avionics suite, GS, KW, third stage, round level testing, and field level testing for the STE identified in Attachment 4.

3.2. Program Management

The contractor shall provide management, including technical direction, administration, planning and cost control for the tasks identified in this SOW. The contractor shall assign

overall responsibility to a Program Manager who shall be responsible for the technical, financial, and programmatic performance of the effort performed under this SOW. The contractor shall assign a staff of technical, financial, managerial, planning, assembly, and support personnel appropriate for the successful and efficient execution of the effort identified in this SOW. Contractor Integrated Performance Management.

For Contracts \$50M or greater in accordance with DFARS 252.234-7001 and 252.234-7002, the contractor is required to have a validated Earned Value Management System that has been certified by a cognizant federal agency (CFA) to be in compliance with the Guidelines in ANSI/EIA-748B.

For Contracts less than \$50M in accordance with DFARS 252.234-7001 and 252.234-7002, the contractor is required to have an Earned Value Management System that complies with the Guidelines in ANSI/EIA-748B; however, the Government will not formally validate/accept the contractor's management system (no formal review). While no validation is required, the Government will observe the system's compliance during the course of the contract, through use of the EVMS surveillance process.

Integrated Baseline Review (IBR). The contractor shall engage jointly with the Government's program manager in an annual Government-led Integrated Baseline Review (IBR) process to evaluate the risks inherent in the contract's planned performance measurement baseline. The initial IBR shall occur as soon as feasible but not later than four (4) months after contract award. IBRs should also occur following all major changes to the baseline. Each IBR should verify that the contractor is using a reliable performance measurement baseline, which includes the entire contract scope of work, is consistent with contract schedule requirements, and has adequate resources assigned. Each IBR should also record any indications that effective Earned Value Management (EVM) is not being used. IBRs should also be conducted on subcontracts that meet or exceed the EVM application threshold. The prime contractor shall lead the subcontractor IBRs, with active participation by the Government. (See DFARS 252.234-7002). Risk Management shall be conducted using MDA Instruction 3058.01-INS as guidance.

Subcontract Cost/Schedule Management and Reporting. Subcontracts (excluding those which are FFP, T&M, and LOE) having a dollar value of \$20M or greater shall apply (1) the ANSI/EIA-748B EVMS Guidelines, (2) the requirements of DFARS 252.242 7001, DFARS 252.242 7002, (3) the Cost Performance Report (CPR)(DI MGMT 81466A), and (4) the Integrated Master Schedule (IMS)(DI-MGMT-81650).

For subcontracts less than \$50M, while the EVMS must comply with the ANSI/EIA-748B Guidelines, a validated EVMS is not required. Application of EVM to cost or incentive subcontracts less than \$20M is optional, and is a risk-based decision by the prime contractor.

Application to cost or incentive type subcontracts of less than \$20M shall be preceded by a cost benefit analysis and evaluated carefully to ensure that only the minimum information necessary for effective management controls is required.

The contractor shall provide for subcontractor submittal of EVM data in ANSI EDI format. In addition, subcontractors shall be required to submit current month report data for inclusion in the contractor's CPR.

3.2.1. Reviews

The Contractor shall support the periodic management reviews specified herein. The purpose of these reviews will be for the government to monitor program progress and technical risk. The Contractor's support shall include hosting, conducting, participating in, creating agenda for, preparing minutes for, and responding to action items.

3.2.1.1. In Process Reviews (IPRs)/Program Management Reviews (PMRs): The Contractor shall conduct, at the Contractor's facility, comprehensive Government chaired IPRs/PMRs at approximately three (3) month intervals.

3.2.1.2. Permit-to-Ship (PTS) Reviews, MCP, Range Readiness Reviews, and MRR: The Contractor shall support Government conducted PTS Reviews, MCPs and MRRs, etc. The Contractor shall prepare and present appropriate data, reports, configuration lists, simulation results, hardware status, pedigree status, and other related information with sufficient lead time for review by the Government.

3.2.1.3. Post Flight Test Reviews: The Contractor shall support post flight test reviews conducted as applicable. These reviews will be conducted for the purpose of determining results of the test and the data available for analysis. The Contractor shall be responsible for presenting the flight performance results.

3.2.1.4. IPT and Working Group Meeting: The Contractor shall participate in and support, at various Government/Contractor facilities, IPT and working group meetings.

3.2.2. Quality Assurance

The Contractor shall continue the Quality Assurance Program which applies quality through design, while promoting continuous process improvement. The Contractor shall continue to maintain a historical archive of all configuration and test data, including qualification and acceptance data. (DI-QCIC-81722) The contractor shall maintain quality provisions per an established Quality Program Plan in accordance with the applicable CDRL (A008).

3.2.2.1. The Contractor shall continue to maintain and update a Software Quality Assurance (SQA) Program. The Contractor shall continue configuration management of software components/products. The Contractor shall perform formal configuration management on all software release products including executable software and documentation.

3.2.2.2. The Contractor shall continue to implement and maintain the SM-3 Seeker Molecular Contamination Model.

3.2.2.3. The Contractor shall document and revise the SM-3 Program Contamination Control Plan (CCP) to reflect the most current contamination control requirements, processes and procedures utilized to control particulate and molecular contamination of the SM-3 hardware. Once contamination controls are in place, the Contractor shall perform validation testing to ensure controls implemented are providing the required level of control. The contractor shall support the BMD Test Incident Report (BTIR) process.

3.2.3. Contract Work Breakdown Structure (WBS)

The Contractor shall organize work according to the Contract WBS as shown in Attachment 8. The Contractor shall extend the WBS as appropriate to allow for effective management of

the tasks as defined in this SOW. The Contractor shall provide an electronic report, in accordance with CDRL A003.

3.2.4. Integrated Master Schedule (IMS)

The contractor shall develop and maintain an Integrated Master Schedule (IMS) by logically networking detailed program activities. The schedule shall contain the planned events and milestones, accomplishments, exit criteria, and activities from contract award to the completion of the contract. The contractor shall quantify risk in hours, days, or weeks of delay and provide optimistic, pessimistic, and most likely duration for each IMS activity and event. (DI-MGMT-81650). Changes to the IMS will be coordinated through the appropriate process. A schedule risk assessment (SRA) shall be conducted prior to the initial IBR per the DID and should be written to be conducted and provided to the Government quarterly after that. See Applicable CDRLs A010 and B006.

The contractor should be prepared to actively participate in quarterly SRAs discussions with the Government to identify and quantify milestone/event and task/activity level schedule risk. The contractor shall report optimistic, pessimistic, and most likely remaining durations for each Critical Path and Near Critical Path task/activity. The SRA will be performed on the Program Critical Path and the Critical Path and Near Critical Paths to selected critical milestones. The rationale used to establish the remaining durations should be documented. The Contractor may employ tailored criteria for estimated best and worse durations and shall document these criteria in schedule notes and in the IMS Basis and Assumptions.

The contractor will flow-down the requirements of DI MGMT-81650 to major and critical subcontracts, for which EVMS compliance with the ANSI/EIA-748B Guidelines is required. The contractor shall ensure schedule integration of its schedule with those of its subcontractors, and shall verify and ensure the validity of the subcontractor's schedule data, by including, demonstrating and using effective methods for incorporating schedule data from subcontractors into the contractor's IMS.

3.2.5. Risk Management

The contractor shall use a risk management process to rank and facilitate management of program risks. Said risks shall be ranked according to a numerical rating scheme that uses the product of two or more equally weighted rating criteria [Probability of Occurrence and Seriousness of Consequence, as a minimum]. Risks shall be classified as Low, Moderate, or High. Risks identified as Moderate or High shall have mitigation plans that provide step-by-step actions that support the reduction and/or mitigation of the risk. A monthly report of the program's risk status shall be provided to the AB Missile Systems Division.

3.2.6. Metrics

The contractor shall identify, record, and report metrics which enable effective identification and management of trends (favorable and unfavorable) for key technical parameters and critical performance characteristics, in management and component capabilities. Metrics shall be provided in the contractor format.

3.2.7. Cost and Schedule Performance Monitoring and Reporting

3.2.7.1. Contract Performance Report (CPR) (DI-MGMT-81466A)

The Contractor shall establish, maintain, and use in the performance of this contract, an integrated performance management system. Central to this integrated system shall be a validated Earned Value Management System (EVMS) in accordance with

DFARS 252.242-7001, DFARS 252.242-7002 and the Guidelines for an EVMS contained in ANSI/EIA-748B. To establish the integrated performance management system, the EVMS shall be linked to and supported by the contractor's management processes and systems to include the integrated master schedule, contract work breakdown structure, change management, material management, procurement, cost estimating, and accounting. The correlation and integration of these systems and processes shall provide for early indication of cost and schedule problems, and their relation to technical achievement. (DI-MGMT-81466A/DI-FNCL-80912) The contractor shall provide an electronic CPR and a Performance and Cost Report in accordance with the applicable CDRLs. (A011, A012, B007, B008)

3.2.7.2. Contractor Cost Data Reporting (CCDR) (DI-FNCL-81565B, DI-FNCL-81566B, DI-FNCL-81567B).

3.2.7.2.1. The Contractor shall establish, maintain and use in the performance of this contract a CCDR System in accordance with DoD 5000.04-M-1 and the applicable CDRL. Prior to acceptance by the Contracting Officer and within ninety (90) calendar days after contract award, the Contractor shall be prepared to demonstrate the operation of its system to the Government. The Contractor agrees to provide access to all pertinent records, data and plans as requested by representatives of the Government for the conduct of the review. Contractor Cost Data Reports (CCDR) shall conform to the WBS specified in accordance with Attachments 8 and 10 to the contract. The contractor shall provide an electronic CCDR in accordance with the applicable CDRLs. (A003, A004, A005, B001, B002, B003)

3.2.7.2.2. The Contractor shall participate as a member of the Common Cost Model (CCM) Cost Working Group (CWG) and support the CCM development for this contract as described in MDA Directive 4250.02, BMDS Cost Estimates (guidance only). The Contractor shall ensure appropriate subcontractor participation in the CCM CWG."

3.2.7.2.3. The description of the management systems accepted by the Contracting Officer, identified by the title and date, shall be referenced in the contract. Such systems shall be maintained and used by the Contractor in the performance of this contract.

3.2.7.2.4. The contractor changes to the accepted systems shall be submitted to the Contracting Officer for review and approval. The Contracting Officer shall advise the Contractor of the acceptability of such changes within sixty (60) days after receipt from the Contractor. When systems existing at the time of contract award do not comply with the criteria, adjustments necessary to assure compliance shall be effected at no change in contract price or fee.

3.2.7.2.5. The Contractor shall require that each selected Subcontractor, as mutually agreed to between the Government and the Contractor and as set forth in the schedule of this contract, shall meet the CCDR Systems criteria as set forth in the guide and shall incorporate in all such subcontracts adequate provisions for demonstration, review, acceptance and surveillance of Subcontractors' systems, to be carried out by the Government.

3.2.7.2.6. If the Contractor or Subcontractor is utilizing CCDR Systems that have been previously accepted, or is operating such systems under a current

Memorandum of Understanding, the Contracting Officer may waive all or part of the provisions hereof concerning demonstration and review.

3.2.7.3. Contract Funds Status Report (CFSR) (DI-MGMT-81468)

The contractor shall provide a Contract Funds Status Report (CFSR) that supplies funding data for: updating and forecasting funds requirements; planning and decision making on funding changes; developing funds requirements and budget estimates; determining funds in excess of contract needs and available for deobligation; and obtaining rough estimates of termination costs in accordance with the applicable CDRL. (A006, B004)

3.2.8 Reports and Other Deliverables

Technical reports delivered by the Contractor in performance of this contract shall be considered Technical Data, as defined in DFARS 252.227-7013, "Rights in Technical Data – Noncommercial Items"

For reports that are unable to be submitted electronically, reports shall be mailed by other than first class mail unless the urgency of submission requires use of first class mail. The following information shall be provided with all reports. However, if the report incorporates a MDA logo or letterhead, this information will be provided on a severable cover sheet and not on the same sheet of paper as the MDA logo or letterhead.

- Contract Number
- Program Description (including 2-Ltr Code)/Program Manager
- Contractor's Point of Contact Name and Phone Number

All reports generated under this contract shall contain the following disclaimer statement on the cover page:

"The views, opinions, and findings contained in this report are those of the author(s) and should not be construed as an official Department of Defense position, policy or decision."

3.3. Software Resources Management

Software Resources Data Reporting (SRDR) is needed to supply the Government with basic information about the size, effort, schedule, and quality of a developed software product. (DI-MGMT-81739) The SRDR Initial Developer's Report, and (DI-MGMT-81740) SRDR Final Developer's Report, are authorized by the associated CDRLs. To minimize the cost and maximize the meaningfulness of the data reported, the SRDR Formats shall be customized so as to conform as closely as possible to measures customarily used by the software development organization while still satisfying the basic Government requirements. These data elements represent the data the Government desires. However, the Government is aware that not all entities manage their software efforts using the same metrics.

The Government has pre-determined – based on a targeted work breakdown structure – those elements within the WBS on which it desires a SRDR. The customized SRDR shall be submitted per the schedule outlined in the CSDR Plan and the associated CDRLs. The developer shall submit a SRDR Data Dictionary with specific data item definitions for the proposed SRDR format as part of the software development proposal. A SRDR shall be submitted in accordance with the CDRLs and shall contain estimates at complete for measures of size, effort, and schedule. A Final SRDR is required at contract completion that covers the entire software product. (A014, A015)

3.4. Inspection and Acceptance

For CLIN 0001, Inspection and Acceptance shall be in accordance with FAR 46.401 (b) and 46.503. Place of acceptance and government quality assurance inspection will be at source location of final assembly. Inspection and acceptance shall be in accordance with Attachment 12 (updated number as appropriate), MD 57579, SM-3 All-Up-Round (AUR) Processing and Recertification Requirements

Final inspection and acceptance of the work called for herein shall be by the designated Contracting Officer's Representative (COR), Contracting Officer's Technical Representative (COTR) or by the cognizant contract administration office representative at:

Office of the Secretary of Defense
Missile Defense Agency, MDA/AB
17211 Avenue D, Suite 160
Dahlgren, VA 22448

Final inspection and acceptance of all data items shall be as specified on the attached Contract Data Requirements List(s), DD Form 1423-1, Exhibit A.

3.5. Supply Chain Lean Enterprise

The Contractor shall develop and implement a program to assist all enterprises within the SM-3 Block IB supply chain in development and implementation of lean enterprise practices. Lean enterprise practices shall include addressing the overall end-to-end supply chain processes beginning from receipt of order from the Government to the delivery of the ordered item. The end-to-end processes shall include both immediate and sub-tier suppliers as necessary to address subsystems and their components that are critical because of long procurement lead times, high cost, quality problems or limited source(s) of supply.

3.6. Intelligent, Integrated Model Based Design for Manufacturing and Assembly

The Contractor shall utilize a design process that is AS9100 and AS9102 compliant and follows MIL-STD-31000 in developing a technical data package (TDP) that supports acquisition and life cycle support strategies for the missile. The Contractor shall utilize the above standards to assure the proper application of product characteristics and manufacturing processes to engineering documents. The Contractor shall also utilize CAD-independent concurrent engineering design practices that enable the product development team(s) to quickly create a producible detailed design and share that digital design in a standard format that is usable by downstream functions. This concurrent engineering approach shall be fully integrated with simulation and shop floors tools and make them accessible to the "extended enterprise."

3.7. Subcontractor and Supply Chain Management

The Contractor shall institute and use a disciplined approach to subcontractor and supply chain management. The Contractor shall implement a subcontract and supply chain management plan that evaluates, mitigates and monitors risk in the supply chain. The approach shall evaluate each supplier for its ability to support requirements and the potential risk to impact delivery of items to the Government. For high risk suppliers, the Contractor shall create and implement mitigation plans to reduce the risk.

3.8. Make-Buy Plan

The Contractor shall develop a make-buy plan that clearly delineates those major and/or critical items to be produced or work force efforts to be performed by the Contractor or its affiliates, subsidiaries, or divisions and those items to be produced or work force efforts to be performed by subcontractors. The Contractor shall have a make-buy plan which provides corporate make-buy policy guidance and the procedures for its implementation. The Government will review compliance with these policies and their adequacy.

The Contractor's make-buy plan shall address the following:

- a. Justification for the performance of work by the Contractor, including the Contractor's relevant experience in accomplishing the work in-house, the use of in-house technology and the compatibility with other in-house operations;
- b. The Contractor's consideration of other firms to include small or minority businesses;
- c. Trade studies for accomplishing the work in-house versus subcontracting that address impacts on mission assurance, cost, schedule and performance;
- d. The Contractor's make-buy history;
- e. The impact/availability of capacity and personnel;
- f. A "make item review" if the item(s) are regularly manufactured by the Contractor but are available from other suppliers at a lower cost and/or improved performance;
- g. A "make item review" if the item(s) are not regularly manufactured by the Contractor and are available from other suppliers at prices no higher than if the Contractor should make or provide the item(s).

(b)(5)



3.10. Updating Specifications and Standards

If, during the performance of this or any other contract, the Contractor believes that any contract contains outdated or different versions of any specifications or standards, the Contractor may request that all of its contracts be updated to include the current version of the applicable specification or standard. Updating shall not affect the form, fit, or function of any deliverable item or increase the cost/price of the item to the Government. The

Contractor should submit update requests to the Contracting Officer with copies to the Administrative Contracting Officer and the Contracting Officer's Technical Representative for approval. The Contractor shall perform to contract in accordance with existing specifications and standards until notified of approval/ disapproval by the Contracting Officer. Any approved alternate specifications or standards will be incorporated into the contract.

4. TECHNICAL REQUIREMENTS

All activities from this SOW shall result in preparedness for production. All technical data packages shall be in accordance with applicable production standards.

Engineering Units will be assembled, tested and delivered to engineering standards with applicable deviations from production Technical Data Package (TDP).

4.1. Configuration Management (CM) and Data Management (DM)

The Contractor shall continue configuration control in accordance with the SM-3 Configuration Management Operating Plan (CMOP) of the functional and allocated baseline for the SM-3 Missile. The Contractor shall maintain the program TDP, monitor the disposition of engineering changes and non-conformances, and support reviews associated with all components. The Contractor shall participate in the DM function and maintain a single, centralized system to manage data required under this contract. To support transfer of classified data, the Contractor shall continue to operate and maintain a Secret Internet Protocol Router Network (SIPRNet) at the Raytheon, Tucson facility. The Contractor's CM process shall comply, as applicable, to the Aegis BMD CM Plan. The contractor shall provide an electronic ECP in accordance with the applicable CDRL. (A001). The contractor shall submit a Request for Deviation (RFD) describing any proposed departure from (a nonconformance with) the contractually-specified configuration documentation for a specific number of units or for a specified period of time in accordance with the applicable CDRL. (A002)

4.2. Reliability

The Contractor shall continue to implement the Reliability Program according to the Reliability Program Plan for the respective designs. The Reliability task includes, but is not limited to the update of the Failure Modes Effects and Criticality Analysis (FMECA), Reliability Prediction, BIT Effectiveness Analysis, Sneak Circuit Analyses, and the Electrical Parts / Circuit Tolerance Analysis (EP/CTA) as required, based upon design changes for the Testbed-Flight Test Program. The Contractor shall support a Failure Reporting, Analysis, and Corrective Action System (FRACAS) for the SM-3 Missile. The Contractor shall perform parts derating and stress analysis according to the Reliability Program Plan for the respective designs.

4.3. Technical Reviews & Meetings

The Contractor shall communicate to maintain visibility and mutual concurrence throughout the development. In addition to frequent informal communications, several meetings and formal reviews are required.

The Contractor shall conduct Formal Peer Reviews, including PDR / CDR / Test Readiness Review (TRR), will require approval from a formal panel (with Pass, Conditional Pass, or Fail Grade) which in addition to appropriate review personnel will include a government representative and SM-3 Navy Tech Rep. All action items are captured as part of the review process. However, in the event of a fail grade, formal action items will be captured and approved by the panel, and will be released with the formal review documentation. Action Item closure information/progress shall be documented in the Contractor engineering peer

review tool and made available upon request. Closure of action items will be approved by the originator of the action. Closure of all action items shall be considered entrance criteria for following reviews (i.e. PDR/CDR/TRR).

4.3.1. Preliminary Design Review (PDR)

As part of the design process, the Contractor shall conduct a PDR as mutually agreed, at a facility specified. These reviews are the platform to present the preliminary design, and/or any alternatives thereof, to and how the requirements specified in the CIDS are to be satisfied. The schedule and other program performance-related subjects shall also be discussed. The Contractor shall submit a Design Review Package as applicable. All technical data package items shall be under engineering control prior to PDR. All changes shall be tracked and documented.

4.3.2. Critical Design Review (CDR)

As part of the design process, the Contractor shall conduct a CDR as mutually agreed, at a facility specified. The CDR provides a platform to present with the progress attained to that point in time on the detailed design, and/or any alternatives thereof, in pursuit of satisfying requirements. The schedule and other program performance-related subjects shall also be discussed. The Contractor shall conduct the review using standard processes as a guideline. The Contractor shall submit a Design Review Package as applicable. All TDP items shall be released under Configuration Management prior to CDR.

4.3.3. Test Readiness Review (TRR)

As part of the design process, the Contractor shall conduct a TRR as mutually agreed at a facility specified. This review sets forth a platform to present a review of the test procedures, tests and test results for hardware. The Contractor shall submit a TRR package as applicable.

4.3.4. Test Data Review (TDR)

As part of the design process, the Contractor shall conduct a TDR as mutually agreed at a facility specified. This review sets forth a platform to present a review of the test results for hardware. The Contractor shall submit a TDR package upon completion of the review.

4.4. Combat Systems Engineering Agent (CSEA) Support

The Contractor shall continue to support the Aegis BMD CSEA efforts to ensure adequate allocation of performance requirements and error budgets that meet Aegis BMD requirements flowed down from Element Capability Specifications. The Contractor shall support CSEA integration efforts that include System level tests, ship integration and installation. The Contractor shall also conduct performance analysis in support of CSEA performance verification efforts using the End-To-End Distributed Development System (ETEDDS) as a part of a capability verification tool.

4.5. Integrated Logistics Support (ILS)

(DI-ILSS-80095) The Contractor shall establish, implement, and maintain a logistics program for current missile configurations and shall identify new support resources required prior to deployment in accordance with the applicable CDRL. The Integrated Logistics Support program shall include the development and maintenance of an Integrated Logistics Support Plan, demilitarization (DEMIL) plans, surveillance planning, and other logistics

documentation. The Contractor shall coordinate with the Government to follow up with Mission Designation Series (MDS) for all rounds associated with obtaining appropriate Naval Ammunition Logistic Code (NALC) / NSN designation. The Contractor shall create, release, and maintain NALC / NSN / Notices of Ammunition Reclassification (NAR) for the SM-3 Missile configurations. The Contractor shall design, develop, and coordinate new Ordnance Handling Equipment (OHE) and Packaging, Handling, Storage and Transportation (PHS&T) with the Government. The Contractor shall establish useful life requirements for components to meet service life requirements. The Contractor shall capture and maintain all SM-3 data and information in applicable Configuration As-Built Requirements Lists (CARLs). The Contractor shall provide this data in an agreed-to timeframe to (b)(4) through PDM access. The Contractor shall manage, maintain, and repair the tooling, test, and support equipment required under terms of this contract. (A013)

4.5.1. SM-3 Work Instructions

The Contractor shall create, release and manage the Work Instructions and any Special Handling instructions for the assembly /disassembly, certification and recertification of all SM-3 missiles.

4.5.2. Packaging, Handling, Storage & Transportation (PHS&T)

4.5.2.1. Containers

The Contractor shall procure, certify, coordinate, maintain, and manage the containers required to support activities at the (b)(4) in support of the SM-3 Missile section transport.

4.5.2.2. Handling Equipment

The Contractor shall procure, certify, coordinate, maintain, and manage and/or use GFP-provided handling equipment to support activities at the (b)(4) in support of the SM-3 Missile handling.

4.5.2.3. Storage

The Contractor shall provide, coordinate, maintain, and manage the storage required to support the SM-3 Missile.

4.5.2.4. Transportation

The Contractor shall provide, coordinate and manage the trucking transportation required by the (b)(4) in support of the SM-3 Missile. The Government shall provide all other transport required to get the SM-3 to and from the fleet.

4.5.3. Training

The Contractor shall create, release, and manage the training of personnel required to produce, repair, recertify, and deliver the SM-3 GMRs.

4.5.4. Fly Away Team

The Contractor shall support the government's Fly Away Team for on-loading, off-loading GMRs and other special activities that are directed by the Aegis BMD program office.

4.6. Electromagnetic Interference / Electromagnetic Compatibility (EMI/EMC)

The Contractor shall conform to the EMC/EMI requirements of MIL-STD-464 except paragraphs 5.4 Lightning, 5.5 Electromagnetic Pulse (EMP), and 5.13 Emission Control (EMCON). MIL-STD- 464 references to MIL-STD-461 shall apply to MIL-STD-461 Revision C.

4.7. Safety

The Contractor shall continue to implement the Safety Program in accordance with the SM-3 System Safety Program Plan and the MDA/AB Integrated System Safety Management Plan. The Contractor shall continue to support range safety coordination with the Pacific Missile Test Center and Pacific Missile Range Facility and support range safety analysis. The Contractor shall support the SM-3 Weapon System Explosives Safety Review Boards (WSESRB). (DI-MGMT-81580) The contractor shall provide updates to the Explosive Handling Certification Training Procedures. CDRL (A007, B005)

4.8. MDA Assurance Provisions (MAP)/SM-3 Mission Assurance Implementation Plan (MAIP)

The Contractor shall establish and maintain accountability for fulfilling the Safety, Quality and Mission Assurance requirements defined in the MDA Assurance Provisions MDA QS-001 MAP Rev A and Change 1, as tailored and specified in the MAIP, REV A, dated 14 January 2010. Accountability shall be documented through the assignment of specific roles, responsibilities and authorities.

4.8.1. Block IA MAIP

For Block IA, the contractor shall continue to maintain accountability for fulfilling the requirements defined in the SM-3 MAIP and change 1 of the MAP Rev. A.

4.8.2. Block IB MAIP

For Block IB, the Mission Assurance Performance Element measures the contractor's timely and effective performance of Quality, Safety and Mission Assurance events critical to successful BMDS performance. The contractor shall perform first time quality and mission assurance that precludes anomalies affecting either test or fielded assets; uncover/correct existing supply chain quality issues within heritage assets, prevent quality issues from entering the supply stream on new and modified design assets, implement the SM3 MAIP and Parts, Materials and Processes Management Plan (PMPMP) and the appropriate flow-down of applicable MAP and PMAP provisions to critical sub-tier suppliers. MAP and PMAP implementation shall be in accordance with the Government approved MAIP, Change 1 of MAP Rev A, and the most current version of the PMPMP.

4.8.3. Block IB MAIP Quality Program

(DI-QCIC-81722) For Block IB, the Contractor shall develop, implement and maintain a quality program plan (QPP) that complies with the requirements of the MAP Rev A change 1 as tailored and specified in the MAIP; and all design standards, clauses, and provisions identified in this contract. It is a contractual requirement that the Contractor follow their company's required Command Media, i.e., the most recent version of quality documents, design standards, procedures, processes, build paper, test documentation, and specifications which form a part of the QSMA Program. (A008). When a conflict arises between the Contractor's command media and the MAIP, the MAIP takes precedence.

The Contractor shall flowdown applicable MAP and their command media requirements to applicable lower-tier suppliers based on complexity and/or criticality and risk. Flowdown to lower-tier suppliers should follow the same process as the flowdown for any standard.

4.8.4. Block IB Parts, Materials, and Processes

For Block IB, the Contractor shall implement and maintain a Parts, Materials, and Processes program in compliance with Missile Defense Agency Parts, Materials, and Processes Mission Assurance Plan (PMAP), MDA-QS-003-PMAP, Rev A as tailored by the SM3Block IB PMPMP. The Contractor shall flowdown applicable PMAP provisions to applicable lower-tier suppliers based on the product/process complexity and criticality. Flowdown to lower-tier suppliers should follow the same pattern as the flowdown for any standard.

4.8.5. Block IB Audit Program

For Block IB, the Contractor shall develop, implement and maintain a sub-tier audit program. This requirement shall be flowed-down to any sub-tier Contractor that has flowed-down a requirement whose basis is one of complexity and/or criticality. The sub-tier audit program will be executed on a bi-annual basis and shall have as one of its central components the required participation of the Responsible Engineer(s) (RE) and other technical Subject Matter Experts (SME) along with quality personnel to ensure that the product qualification baseline does not deviate during production. REs and SMEs are required to periodically inspect and witness pre-assembled components to verify manufacturing consistency. Audit results shall be provided to the Aegis BMD program office and MDA/QS no later than 30 calendar days after completion of the audit.

4.8.6. Block IB Software IV&V and EVM

For Block IB, for all mission critical software, the Contractor shall prepare software specification documents under configuration management that define the architecture, variable control, variable range, modularity, parameter ranges, parameter designations, flow charts and full code. Complex software flow charts which shall be made available for Government review upon request, and shall include all decision paths, decision logic, complex algorithms by mathematical formula, parameter designations, parameter look-up tables, and explanations of unique code associated with input / output and how data schemas are generated. Software technical documentation shall also identify those algorithms directly affecting system performance and shall provide a verification matrix designating the status on whether algorithms have been qualified and verified by system tests. Verification matrices are considered a part of the Performance Verification Reports specified in paragraph 1.4.1.6.7. Furthermore, the Contractor shall:

- Establish and maintain criteria against which the design can be evaluated;
- Identify, develop, or acquire design methods appropriate for the software product;
- Ensure that the design adheres to applicable design standards and criteria;
- Ensure that the design adheres to allocated requirements; and
- Provide sufficient detail to ensure that IV&V can be achieved. Provide validated and concisely explained Earned Value Management information, including the Cost Performance Index (CPI) and Schedule Performance Index (SPI) metrics, so it can be utilized in terms of meeting the software development schedule.

4.8.7. Block IB Test-As-You-Fly

For Block IB, the Contractor shall institute a test-as-you-fly-program that is in compliance with the MDA MAP (Section 3.7).

4.8.8. Block IB Supplier Management Requirements

For Block IB, the Contractor shall establish and maintain a Supplier Management program that is compliant with the MDA MAP (Section 3.13), ensures the selection of capable suppliers during all phases of development and production and monitors the supply chain through key metrics. Additionally, the program shall develop a Supplier Management Plan which provides processes for key supply chain activities, to include but not limited to: supplier selection, supplier evaluation/audits, supplier rating system, receiving test and inspection, conditional source approval, source inspections, procurement and metrics. The Contractor's supplier management program shall ensure that all technical, test, quality, safety and mission assurance requirements are flowed down to the appropriate supplier including the most recent version of the Contractor's command media design margins, methods and practices.

Contractors utilizing a Dock-to-stock program shall maintain Certificates of Compliance for all suppliers in this program, and develop a jointly reviewed (Contractor and Government Quality Representative) process for periodically reviewing and inspecting the supplier's ability to remain compliant.

The Contractor shall establish and maintain a system for the collection and monthly reporting of all non-conformances occurring throughout the supply chain. This requirement shall be flowed down to all lower-tier suppliers based on complexity and/or criticality of their product. Metrics to be collected, analyzed and reported at a minimum include: non-conformance issue, number of occurrences, where nonconforming items and materials were found, disposition of nonconforming items, designation of disposition such as Use-As-Is, Repair, or Rework.

4.8.9. Block IB Maintenance/Availability of Quality Records

For Block IB, the Contractor shall maintain quality records, documents, processes and procedures in accordance with the applicable quality system called out in this contract. The Contractor's command media, i.e., documents, engineering drawings, design standards, procedures, processes, build paper, specifications etc., form a part of the QSMA Program and are considered contractual obligations. Records shall be made available to the customer when requested. Records shall include, but not be limited to:

- The Contractor's and sub-tier supplier command media;
- Evidence of inspection to assure adherence to applicable drawings or specifications and revisions;
- First Article Inspection/Test Reports;
- Periodic inspection and control of inspection media;
- Records to indicate control of Special Tooling and Special Test Equipment;
- Test data records of all qualification and acceptance test performed;
- Certification of personnel as required by specification and/or contract;
- Raw Material and Process certifications; and
- Material Review Report

4.8.10. All-Up-Round Certification

The contractor shall establish and maintain a process that will furnish to the Government a Certification signed by a Responsible Raytheon Agent to be provided to the Government along with the DD250 paperwork prior to Government signature. This certification will indicate that the final assembly has been thoroughly reviewed for conformance to requirements. This certification shall include a review of all signatures from each Responsible Engineer for their respective mission critical assemblies, thus ensuring that lower level hardware/software acceptance reviews were completed. As an example, the following type of information is to be assessed:

- 1) All requirements have been verified;
- 2) Out of family performance evaluated;
- 3) As-designed versus as-built Configuration changes reconciled and qualification baseline validated;
- 4) All non-conformances dispositioned and root cause instituted;
- 5) Limited life including fatigue from environmental exposure recorded and tracked;
- 6) Sibling non-conformances assessed for applicability;
- 7) Part, material and process issues resolved; and
- 8) Unverified failures assessed and a justification for use written.

This certification shall contain the signature of a designated Responsible Raytheon Agent specifically certifying that the final assembly and all critical subassemblies have been thoroughly reviewed for conformance. A signature page along with the statement of certification may be attached if sufficient space does not exist on the form used.

4.8.11. Safety

The Contractor shall have effective policies and procedures in place to protect the life and well being of Contractor and Agency employees, the public, and MDA property and equipment. The Contractor shall adhere to all applicable local, state, and federal safety laws/regulations as well as the safety requirement of the MAIP (Section 4.8). The Contractor shall establish and maintain a safety program and shall ensure that safety protection considerations are integral parts of the systems engineering efforts. The safety program shall address personnel and equipment concerns relative to the design, development, testing, use, maintenance, life cycle support and disposal of the system.

4.9. Engineering and Manufacturing Readiness Levels (EMRLs) – Measuring Program/Product Maturity

The Contractor shall use disciplined system engineering design practices during the design and development of the SM-3 Block IB Element and components. The Contractor shall use EMRL criteria and metrics as the standard maturity measurement of product hardware and software.

The Contractor shall use EMRL's for assessments of technology maturity, design maturity, manufacturing readiness, and product maturity throughout the SM-3 Block IB Element acquisition cycle. Completed EMRL assessments shall be subject to approval by the Government and will serve as exit criteria for design reviews and production readiness reviews.

The Contractor shall continuously assess progress against EMRL metrics to measure the progress of the SM-3 Block IB Element design and development. The Government and Contractor will agree upon a Contract Work Breakdown Structure (WBS) and format for the Contractor to report EMRL updates to the Government.

4.10. Manufacturing Readiness Levels (MRL)

4.10.1. Manufacturing Management Planning:

The Contractor shall describe their approach for ensuring that their Manufacturing Plan incorporates the use of mature manufacturing technologies and processes to facilitate a smooth and orderly transition from development to production. The Contractor's approach will utilize the MRL Desk book (DRAFT) and MRL Definitions and Descriptions found on DAU PQM Community of Practice as a guide. The Contractor shall use the MRL assessment criteria as a basis for evaluating manufacturing maturity. The Contractor shall identify their maturity levels and risks for the following manufacturing threads:

- Technology and the Industrial Base;
- Design Maturity;
- Cost and Funding of Manufacturing Initiatives;
- Materials;
- Process Capability and Control;
- Quality Management;
- Manufacturing Personnel; and
- Facilities

4.10.2. Manufacturing Management Level Assessments

The Contractor shall describe their process for developing new processes or maturing processes that are not achieving production, quality, reliability, or cost goals. The Contractor shall describe their process for identifying manufacturing risk areas that might require a Manufacturing Readiness Level Assessment for assessing the manufacturing maturity of high or medium risk sub-systems and components. The Contractor shall describe their process for supporting Manufacturing Readiness Level Assessments at designated Contractor/ Subcontractor facility.

4.11. Hazardous Material Control and Management

The production, testing, operation, and maintenance of STANDARD Missile-3 will include the use of hazardous materials at Contractor facilities resulting in the potential for environmental pollution including air, waste water, and solid wastes. The Contractor shall minimize the use of hazardous material in the SM-3 Program. Whenever hazardous materials are necessary, the Contractor shall be responsible for the implementation of a formal Hazardous Material Control and Management Program to ensure control of the environmental effects of the production, testing, operational and maintenance processes. In addition, the Contractor shall be responsible for the identification, justification, and documentation of all hazardous materials used. The Contractor shall identify the potential health hazards of the hazardous materials selected for STANDARD Missile application, and shall provide appropriate hazard mitigation measures to minimize personnel and environmental damage and exposure. The Contractor shall also identify all pollutants generated by each process (production, test, and operations) and appropriate disposal methods. (A007)

The Contractor shall establish hazard classifications for STANDARD Missile and shall follow the explosive hazard classification procedures in accordance with NAVSEAINST 8020.8B.

4.12. Critical Hardware Handling

All Hardware with the potential to result in a major schedule impact if damaged, special high dollar items as determined by the program (such as one-of-a-kind articles),-or hardware whose handling poses a risk beyond routine handling operation personnel or equipment, shall be considered Critical Hardware. All higher lever assemblies with Critical Hardware incorporated into it shall be considered Critical Hardware. Program and production management shall jointly identify critical hardware. The Critical Handling process for the SM-3 Program is detailed in RMS Document Number INST-SM3-008.

Removing a piece of Critical Hardware from a workbench, vehicle, or fixture and lifting or moving it to another workbench, vehicle, or fixture constitutes a Critical Lift. Critical Lifts require a team of Authorized Lifters as detailed by Work Instructions. Critical Lifts may not be performed without direction from Work Instructions. If Critical Lift direction has not been incorporated into Work Instructions, the lift may proceed by using Critical Lift/Move Check Sheet for Lifts/Moves with Pending Work Instruction.

4.13. Exclusion of Mercury

Mercury or mercury containing compounds shall not be intentionally added or come in direct contact with hardware or supplies furnished under this contract.

4.14. Lead-Free Control Plan

The Contractor shall develop a Lead-Free Control Plan(LFCP). This plan shall be employed to assure that Aerospace and High Performance Electronic Systems Containing Lead-free Solder, piece parts, and boards will satisfy the applicable requirements (Performance Standard for Aerospace and High Performance Electronic Systems Containing Lead-Free Solder, GEIA-STD-0005-1) for performance, reliability, airworthiness, safety, and certifiability throughout the specified life of performance.

4.15. Assignment and Use of National Stock Numbers

To the extent that National Stock Numbers (NSNs) or preliminary NSNs are assigned by the Government for the identification of parts, pieces, items, subassemblies or assemblies to be furnished under this contract, the contractor shall use such NSNs or preliminary NSNs in the preparation of provisioning lists, package labels, packing lists, shipping containers and shipping documents as required by applicable specifications, standards or Data Item Descriptions of the contract or as required by orders for spare and repair parts. The cognizant Government Contract Administration Office shall be responsible for providing the contractor such NSNs or preliminary NSNs which will be assigned and which are not already in possession of the contractor.

4.16. Assignment of Serial Numbers

The contractor shall request serial number assignment, in writing, from the cognizant technical program office, with a copy to the cognizant DCMA office. The request for serial assignment shall contain the following information, at the minimum:

- (a) contract number

- (b) assigned line item number and description
- (c) assigned type designation
- (d) assigned model number
- (e) top drawing number and ID (List of Drawings) number
- (f) exact quantity for which serial numbers are being requested, including preproduction samples required by the contract, and
- (g) national stock number.

4.17. Government-Industry Data Exchange Program

The Contractor shall participate in the appropriate interchange of the Government-Industry Data Exchange Program (GIDEP) in accordance with NAVSEA S0300-BU-GYD-010 dated November 1994. Data entered is retained by the program and provided to qualified participants. Compliance with this requirement shall not relieve the Contractor from complying with any other requirements of the contract.

The Contractor agrees to insert paragraph (a) of this requirement in any subcontract hereunder exceeding \$500,000. When so inserted, the word "Contractor" shall be changed to "Subcontractor".

GIDEP materials, software and information are available without charge from:

GIDEP
P.O. Box 8000
Corona, CA 92878-8000
Phone: (951) 898-3207
FAX: (951) 898-3250
Internet: <http://www.gidep.org>

4.18. Open Systems Architecture

The Contractor shall implement an open systems architecture based on specifications and standards for hardware and software interfaces, services and supporting formats. The Contractor shall implement open system architectures that are sufficient to design and produce components (e.g., modules, circuit board assemblies, subsystems) that are usable across a wide range of systems with minimal or no changes. The Contractor shall:

- a. Use disciplined system engineering design practices using Open Systems Architecture that emphasize modular design of hardware and software based on well defined interfaces;
- b. Use disciplined system engineering design practices to define system interfaces that are sufficient to facilitate insertion of new or additional systems capabilities for a wide range of applications;
- c. Use modular design techniques for components identified as being high cost and/or high risk based on quickly evolving technology or based on growing, evolutionary or time-phased requirements;
- d. Design modular systems elements (e.g., subsystems, components) interfaces that minimize design-specific dependencies between components so as to minimize future integration and testing costs for upgraded elements;
- e. Implement designs that use structured decomposition and object oriented software and designs that are based on software re-use to the maximum extent practical;
- f. Select designs that maximize the possibility of secondary or multiple sources of supply;

- g. Design in COTS components when possible or appropriate;
- h. Use to the maximum extent possible buy versus make plan strategies and buy plan strategies that foster supplier competition;
- i. Implement standards and specifications that are developed / adopted by industry recognized standards and specifications bodies.

5. MARKING AND PACKAGING REQUIREMENTS

5.1. Hazardous Materials

Any hazardous materials to be furnished hereunder shall be prepared for transportation in accordance with the Performance Oriented Packaging Standards, as prescribed by the Department of Transportation's Title 49 CFR, Parts 107-178. The Contractor's signed certification that the packaging and markings conform to the requirements shall be incorporated on DD Form 250, "Material Inspection and Receiving Report," or other related acceptance document if DD Form 250 is not used.

5.2. Marking and Packing

The Contractor shall mark all shipments under this contract using the guidance of MIL-STD-129P(4), as modified by the Special Shipping, Marking and Packing Instructions, Title 49 CFR and all applicable Work Instructions. The Contractor shall deliver items, except for GMRs, packed and marked in accordance with ASTM D 3951 98. The Contractor shall package each GMR in accordance with MD 57579.

The Contractor shall ship Guidance, Control and Airframe (G,C&A) Sections/components from the factory to the AUR facility, and return, using applicable G,C&A shipping containers or in accordance with ASTM D 3951-98. The Contractor shall obtain a Certificate of Equivalence (COE) for all shipping in accordance with ASTM D 3951-98.

These markings are provided in NAVSEA SW020-AC-SAF-010/020/030. Any Competent Authority Approvals (CAAs) or Performance Oriented Packaging (POP) test markings that are not present in NAVSEA SW020-AC-SAF-010/020/030 shall be obtained from the COMMANDING OFFICER, ATTN CODE 712, NAVAL PHST CENTER, NSWC IHD DETACHMENT EARLE, COLTS NECK NJ 07722-5023.

1. Periodic Retesting of Hazardous Material Packages - Title 49 CFR 178.601(e) requires periodic retesting of all packages used for hazardous materials. All explosive material packages of less than 400 kilograms (882 pounds) net mass (item weight) require design testing and/or periodic retesting. The Contractor shall pass design qualification testing at the start of any new or different packaging. The COMMANDING OFFICER, , ATTN CODE 712, NAVAL PHST CENTER, NSWC IHD DETACHMENT EARLE, COLTS NECK, NJ 07722-5023 shall perform the Title 49 CFR required testing after First Article testing is complete. If the First Article testing is waived, then design testing and/or periodic retesting must be separately performed. If the production of hazardous material packaging extends more than twelve (12) months, then periodic retesting shall be performed at least once every twelve (12) months for combination packs. Metal drums require six (6) containers for POP testing. The testing facility shall keep all records of testing data for a minimum of two (2) years after test completion.

DEPARTMENT OF TRANSPORTATION (DOT) certification of the Testing facility is not required, however, the COMMANDING OFFICER, ATTN ,CODE 712, NAVAL PHST CENTER, NSWC IHD DETACHMENT EARLE, COLTS NECK, NJ 07722-5023 shall review all noncertified tests to assure conformance with Title 49 CFR. The COMMANDING OFFICER, ATTN CODE 712, NAVAL PHST CENTER, NSWC IHD DETACHMENT EARLE, COLTS NECK NJ 07722-5023 is the Navy's explosive packaging test facility. Exemptions from periodic retesting may be available. Submit requests for exemption to the COMMANDING OFFICER, ATTN CODE 712, NAVAL PHST CENTER, NSWC IHD DETACHMENT EARLE, COLTS NECK, NJ 07722-5023.

2. Missiles - Missiles shall be prepared for shipment or storage in accordance with the applicable STANDARD Missile packing document using the applicable OR-68 as guidance and the applicable Raytheon Work Instructions as listed in Work Instructions for STANDARD Missile Rev. D, dated 01 August 1995. The following documentation, comprising the Missile log, shall be provided with each Missile scheduled for shipment:

- a. Configuration Data Lists (Missile Sections and telemetry units);
- b. G/M Propulsion Unit Data Sheet;
- c. G/M Propulsion Unit History Sheet;
- d. Test Traveler Cards; and
- e. Shore Activity Maintenance Data System (SAMDS) NAVSEA Form 4790/5(2B1) Missile Configuration Summary.

3. Missiles and Components - Missiles and components shall not be stored, issued, or shipped in unserviceable containers. Containers with minor damage may, however, be used for transporting or short-term storage within the assembly building, provided damage does not interfere with normal storage or with the securing of the item in the container. Damaged Missile Round containers may be repaired in accordance with the applicable OR-99B procedures. Damaged Missile Round containers and canisters shall be reported to the NAVAL SURFACE WARFARE CENTER (NSWC)/PORT HUENEME DIVISION (PHD), CODE A66 and PD452 for disposition instructions.

5.3. Marking of Inert Operating Missiles

The Contractor shall identify Inert Operating Missiles (IOM) and other non-flight Engineering hardware, sections, subassemblies, etc. which are compliant to the Technical Data Package (TDP) with the additional minimum identification of "Not for Production Use" in accordance with OD-OPS-016.

5.4. Identification Marking of Parts

Identification marking of individual parts within the systems, equipment, assemblies, subassemblies, components, groups, sets or kits, and of spare and repair parts shall be done in accordance with applicable specifications and drawings. To the extent identification marking of such parts is not specified in applicable specifications or drawings, such marking shall be accomplished in accordance with the following:

- (1) Parts shall be marked in accordance with generally accepted commercial practice.
- (2) In cases where parts are so small as not to permit identification marking as provided above, such parts shall be appropriately coded so as to permit ready identification.

5.4.1. Marking.

Shipments, shipping containers and palletized unit loads shall be marked in accordance with best commercial practice.

5.4.2. Packing List(s).

A packing list (DD Form 250 Material Inspection and Receiving Report may be used) identifying the contents of each shipment, shipping container or palletized unit load shall be provided by the Contractor with each shipment. When a contract line item identified under a single stock number includes an assortment of related items such as kit or set components, detached parts or accessories, installation hardware or material, the packing list(s) shall identify the assorted items. Where assortment of related items is included in the shipping container, a packing list identifying the contents shall be furnished.

5.4.3. Master Packing List.

In addition to the requirements in paragraph (b) above, a master packing list shall be prepared where more than one shipment, shipping container or palletized unit load comprise the contract line item being shipped. The master packing list shall be attached to the number one container and so identified.

5.4.4. Part Identification.

All items within the kit set, installation hardware or material shall be suitably segregated and identified within the unit pack(s) or shipping container by part number and/or national stock number.

APPENDIX A List of Acronyms

5-DOF	Five Degree of Freedom
6-DOF	Six Degree of Freedom
AA	Avionics Assembly
ADSG	Advanced Digital Scene Generator
ASG	Advanced Scene Generator
ATK	Alliant Techsystems Inc.
AUR	All Up Round
BAE	British Aerospace Engineering
BMD	Ballistic Missile Defense
CARL	Configuration As-Built Requirements List
CCDR	Contractor Cost Data Reporting
CCP	Contamination Control Plan
CDR	Critical Design Review
CDRL	Contract Data Requirements List
CFD	Computational Fluid Dynamics
CIC	Combat Information Center
CIDS	Critical Item Development Specification
CIL	Computer-In-the-Loop
CIPS	Critical Item Product Specification
CLIN	Contract Line Item Number
CM	Configuration Management
CPR	Contract Performance Report
CSCI	Computer Software Configuration Item
CSEA	Combat Systems Engineering Agent
CSEDS	Combat Systems Engineering Development Site
DEMIL	Demilitarization
DMCA	Defense Contract Management Agency
DIDP	Design Input Data Package
DM	Data Management

DoD	Department of Defense
DREN	Defense Research and Engineering Network
DTRM	Dual Thrust Rocket Motor
DVT	Design Verification Test
ECS	Element Capability Specification
EMC	Electromagnetic Compatibility
EMCON	Emission Control
EMI	Electromagnetic Interference
EMP	Electromagnetic Pulse
EP/CTA	Electrical Parts / Circuit Tolerance Analysis
ETB	Engineering Test Bed
ETEDDS	End-To-End Distributed Development System
EVMS	Earned Value Management System
FAR	First Article Review
FM	Flight Mission
FMECA	Failure Mode, Effects, and Criticality Analysis
FMS	Foreign Military Sales
FPA	Focal Plane Array
FQT	Formal Qualification Test
FRACAS	Failure Reporting and Corrective Action System
FY	Fiscal Year
GAINS	GPS Aided Inertial Navigation System
GFP	Government Furnished Property
GMR	Guided Missile Round
GS	Guidance Section
GSEL	Guidance Section Evaluation Laboratory
GUTS	Guidance Unit Test Set
HALT	Highly Accelerated Life Test
HAT	Hazard Assessment Test
HIL	Hardware-In-Loop
HUM	Hardware Utilization Matrix
IBR	Integrated Baseline Review
ICD	Interface Control Documents
IDA	Integrated Dewar Assembly
ILS	Integrated Logistics Support
IMS	Integrated Master Schedule
IOM	Inert Operational Missile
IPR	In-Process Review
IPT	Integrated Product Team
IRS	Interface Requirement Specification
ITADS	Interactive Theater Air Defense System
ITAR	International Traffic In Arms Regulations
JCR	Joint Cooperative Research
JHU/APL	John Hopkins University / Applied Physics Lab
KIDS	Key Item Development Specification
KIPS	Key Item Product Specification
KW	Kinetic Warhead
LM	Lockheed Martin
LOA	Letter of Offer and Acceptance
MAIP	Mission Assurance Implementation Plan
MAP	MDA Assurance Provision
MCP	Mission Control Panel
MDA	Missile Defense Agency
MDS	Mission Designation Series
MHI	Mitsubishi Heavy Industries
MRR	Mission Readiness Review
MSRD	Missile System Requirements Document
NALC	Naval Ammunition Logistic Code
NAR	Notices of Ammunition Reclassification

NSN	National Stock Number
NSWC	Naval Surface Warfare Center
OHE	Ordnance Handling Equipment
PAMT	Performance Assessment Management Team
PDR	Preliminary Design Review
PHS&T	Packaging, Handling, Storage and Transportation
PIDS	Prime Item Development Specification
PMAP	Process Mission Assurance Plan
PMR	Program Management Review
PMRF	Pacific Missile Range Facility
PTS	Permit to Ship
REA	Responsible Engineering Authority
RF/IR	Radio Frequency / Infra-Red
RFI	Ready for Issue
ROCC-Delta	Range Operations Control Center Tracking and Control Room D
SA	Staging Assembly
SAASM	Selective Availability Anti-Spoofing Module
SCD	SM-3 Cooperative Development
SCS	Steering Control Section
SDP	Software Development Plan
SDR	System Design Review
SE	Systems Engineering
SE&I	Systems Engineering and Integration Support
SEMP	Systems Engineering Management Plan
SIPRNet	Secret Internet Protocol Router Network
SLEP	Service Life Extension Program
SM-3	STANDARD Missile - 3
SOW	Statement of Work
SQA	Software Quality Assurance
SRDR	Software Resources Data Report
SRR	System Requirements Review
SRS	Software Requirement Specification
SSRM	Second Stage Rocket Motor
STB	Special Test Bed
STE	Special Test Equipment
TBI	Thru Bulkhead Initiator
TDACS	Throttleable Divert Attitude Control Systems
TDP	Technical Data Package
TDR	Test Data Review
TLR	Top Level Requirements
TM	Telemetry
TRR	Test Readiness Review
TSRM	Third Stage Rocket Motor
TVA	Thrust Vector Assembly
V&V	Verification & Validation
VECP	Value Engineering Change Proposal
VTC	Video Teleconference
WBS	Work Breakdown Structure
WIT	Waterfront Integration Test
WSESRB	Weapon System Explosives Safety Review Boards

APPENDIX B Contractor Format Documentation

DESCRIPTION	SOW SECTION	FREQUENCY
System Engineering Management Plan (SEMP).	1.4.1.1.1, 1.4.3.1.1, 1.4.8.1.1	As Required
Block 1B Pathfinder GMR ICD's	1.4.1.1.4.1	After Flight Test Completion
Simulation Validation	1.4.1.1.5.1, 1.4.3.1.4.1, 1.4.8.1.4.1	As Required
Update Simulation Tools	1.4.1.1.6.1, 1.4.3.1.5.1, 1.4.8.1.5.1	As Required
Analysis of Minimal Redesigns to Replace Obsolete Parts	1.4.2.2	As Required, for concurrence
Obsolete Parts List	1.4.2.2	As Required
Prime Item Development Specification	1.4.1.1.2.2, 1.4.3.1.2.2, 1.4.8.1.2.2	As Required
Critical Item Development Specifications	1.4.1.1.2.2, 1.4.3.1.2.2, 1.4.8.1.2.2	As Required
Critical Item Product Specifications	1.4.1.1.2.2, 1.4.3.1.2.2, 1.4.8.1.2.2	As Required
Key Item Development Specifications	1.4.1.1.2.2, 1.4.3.1.2.2, 1.4.8.1.2.2	As Required
Key Item Product Specifications	1.4.1.1.2.2, 1.4.3.1.2.2, 1.4.8.1.2.2	As Required
Interface Requirement Specifications	1.4.1.1.2.2, 1.4.3.1.2.2, 1.4.8.1.2.2	As Required
Software Requirement Specifications	1.4.1.1.2.2, 1.4.3.1.2.2, 1.4.8.1.2.2	As Required
Verification Requirements in PIDS/CIDS/KIDS	1.4.1.1.2.2, 1.4.3.1.2.2, 1.4.8.1.2.2	As Required
Performance Verification Reviews Final Reports	1.4.1.6.7, 1.4.3.6.8, 4.8.6	Upon Completion
Hardware/Software margin characterization testing Final Report	1.4.1.6.6, 1.4.3.6.7	Upon Completion
Quick Look Report	1.4.2.4	24 hours after flight test completion
Mission Data Review Package	1.4.2.4	90 days after flight test completion
Permit to Ship Review data	1.4.2.4	Upon Request
Mission Control Panel Data	1.4.2.4	Upon Request
Mission Readiness Review Data	1.4.2.4	Upon Request

Telemeter Specification	1.4.2.5	As Required
Failure Analysis Report	1.4.2.8, 1.4.4.2	As Required
Public announcement plans and Press Releases for each Flight Test	1.4.2.10.3.3	As Required
Electrostatic Discharge Test Final Report	1.4.1.6.4, 1.4.3.6.5	Upon Completion
Electromagnetic Interference (EMI) Test Final Report	1.4.1.6.4,1.4.3.6.5	Upon Completion
Direct Current Magnetics Test Final Report	1.4.1.6.4,1.4.3.6.5	Upon Completion
Live Battery Testing Final Report	1.4.1.6.5, 1.4.3.6.6	Upon Completion
Electrical Interface Control Documents	1.4.1.1.2.2, 1.4.3.1.2.2, 1.4.8.1.2.2	As Required
Mechanical Interface Control Documents	1.4.1.1.2.2, 1.4.3.1.2.2, 1.4.8.1.2.2	As Required
Contamination Control Plan	3.2.2.3	As Required
HALT Plan	1.4.1.4.1, 1.4.3.4.1	As Required
Software Development Schedule	1.1.4.5,1.4.3.5, 1.4.8.2	As Required
Software Development Plan	1.4.1.5.1, 1.4.3.5.1,1.4.8.2.1	As Required
Top Level Requirements	1.4.1.1.2.1,1.4.3.1.2.1, 1.4.8.1.2.1	As Required
Software Test Plans	1.4.1.5.4, 1.4.3.5.4.1, 1.4.8.2.4.1	As Required
Software Test Descriptions	1.4.1.5.4, 1.4.3.5.4.1, 1.4.8.2.4.1	As Required
Software Test Reports	1.4.1.5.4, 1.4.3.5.4.1, 1.4.8.2.4.1	As Required
Software Trouble Reports	1.4.1.5.4, 1.4.3.5.4.1, 1.4.8.2.4.1	As Required
FQT & Integration of Software Integration for Block IB	1.4.1.5.4, 1.4.3.5.4.1, 1.4.8.2.4.1	As Required
TDACS Design Verification Tests	1.4.1.3.2.1.1	As Required
Surveillance and Service Life Evaluation Test Plan	1.4.2.12	Upon Completion
DACS Design Verification Tests	1.4.3.3.3.1	As Required
Round Level Design Verification Tests	1.4.3.6.4	As Required
Procedures Proofing for All Missile STE	1.4.1.9.6, 1.4.3.7	As Required
STE Roadmap	1.4.1.9.6.1, 1.4.3.7	As Required, for approval
Capability Analysis Final Report	1.4.4.3.2	Upon Completion
Concept Study Final Report	1.4.4.3.6	Upon Completion
Manufacturing Plan	1.4.1.10,4.10.1	As Required
Manufacturing Readiness Level Assessment	1.4.1.10.2,4.10.2	As Required

Quality Assurance Historical Archive	3.2.2	As Required
Monthly Metrics	1.4.2.2, 3.2.6, 4.8.8	Monthly
Functional / Allocated Baseline	4.1	As Required
Technical Data Package	1.4.3, 4, 4.1, 4.3.1, 4.3.2	As Required
Contamination Control Plan	3.2.2.3	As Required
Failure Reporting, Analysis, and Corrective Action System (FRACAS)	4.2	As Required
FMECA Updates	4.2	As Required
Sneak Circuit Analyses	4.2	As Required
Electrical Parts / Circuit Tolerance Analysis	4.2	As Required
Missile Level Design Review Packages	4.3.1, 4.3.2, 4.3.3, 4.3.4	As Required
First Article Inspection Test Report	1.4.1.9.4, 1.4.1.9.5.2, 4.8.9	As Required
Quality Records	4.8.9	As Required
Demilitarization Plans	4.5	As Required
Configuration As-Built Requirements Lists	4.5	As Required
Risk Status Report	3.2.5	Monthly
Configuration Management Operating Plan (CMOP)	4.1	Updated Plan to be submitted 60 DAC
Reliability Prediction	4.2	As Required
BIT Effectiveness Analysis	4.2	As Required
Quality Program Plan (QPP)	4.8.3	As Required
Supplier Management Plan	4.8.8	60 DAC
Supplier Audit Reports	4.8.5	NLT 30 days after audit.
EMRL Update	4.9	As Required
Lead Free Control Plan	4.14	As Required
Studies, Analyses and Cost Estimates	1.4.2.10.1, 1.4.7	As Required
Flight Test Analysis Report	1.4.2.4	As Required
Flight Test Plans	1.4.2.9.2	As Required
Final Test Reports	1.4.2.9.2	As Required
Public announcement plans and press releases for each flight test	1.4.2.10.3.3	As Required
Service Life Extension Program Final Test Report	1.4.2.12	As Required
Contamination Validation Test Results	3.2.2.3	As Required
Changes to Contractor Cost Reporting Data System	3.2.7.2.4	As Required
Make-Buy Plan	3.8	As Required
Anti-Tamper Plan	3.9	As Required
Supplier Roadmap	3.9	Quarterly
FRACAS	4.2	As Required

Parts Derating and Stress Analysis	4.2	As Required
Test-as-you-fly test document	4.8.7	As Required
Dock-to-stock program certificates of compliance	4.8.8	As required
Non-conformances Reporting	4.8.8	Monthly
AUR Certification	4.8.10	Completion of Ship Readiness Review / Hardware Acceptance Review
EMRL Updates	4.9	As Required
Lead-Free Control Plan	4.14	As Required
Retesting Exemption	5.2	
Damaged Missile Round containers and canisters report	5.2(7)	

MISSILE DEFENSE AGENCY

SM-3 Systems Engineering HQ0276-11-C-0002

CDRL Electronic Distribution Requirements Matrix

ATTACHMENT 1

6/2/2011

HQ0276-11-C-0002
ELECTRONIC DISTRIBUTION REQUIREMENTS
APPENDIX A, B, and C

CDRL	SHORT TITLE	STATUS	*MDA AB	BU APL	NAWC CI	NSWC CORONA	NSWC DD	NSWC EARLE	NSWC HHD	PHD NSWC	TECHREP CN	TECHREP TC
A001	ICP TOP LEVEL		X	X			X	X	X	X	X	X
A002	RFD TOP LEVEL		X	X				X	X	X	X	X
A003	COST DATA SUMMARY		X									
A004	FUNCTIONAL COST HOUR		X									
A005	PROGRESS CURVE REPORT		X									
A006	CONTRACT FUNDS STATUS		X									
A007	CONT SOP EXPLOSIVE HAND		X					X	X			
A008	QUALITY PROGRAM PLAN		X									
A009	STATISTICS RPT		X									X
A010	INTEGRATED MASTER SCH		X	X	X	X	X	X	X	X	X	X
A011	CONTRACT PERFORMANCE RPT		X									
A012	PERFORMANCE & COST RPT		X	X			X		X	X	X	X
A013	ILSP		X									
A014	SWR RES RPT INIT DEV RPT		X	X								X
A015	SWR RES RPT FIN DEV RPT		X	X								X
A016	SERVICE LIFE EXT PROGRAM		X									
B001	COST DATA SUMMARY REPORT		X									
B002	FUNCTIONAL COST HOUR		X									
B003	PROGRESS CURVE REPORT		X									
B004	CONTRACT FUNDS STATUS		X									
B005	CONT SOP EXPLOSIVE HAND		X					X	X			
B006	INTEGRATED MASTER SCH		X	X	X	X	X	X	X	X	X	X
B007	CONTRACT PERFORMANCE RPT		X									
B008	PERFORMANCE & COST RPT		X									

HQ0276-11-C-0002
 PD452 & MDA/KV DISTRIBUTION REQUIREMENTS
 APPENDIX A, B, and C

	SHORT TITLE	STATUS	MDA/AB		DTIC
			ACO	PCO	
A001	ECP TOP LEVEL		D		
A002	RED TOP LEVEL		D		
A003	COST DATA SUMMARY		D	D	
A004	FUNCTIONAL COST HOUR		D	D	
A005	PROGRESS CURVE REPORT		D	D	
A006	CONTRACT FUNDS STATUS		D	D	
A007	CONT SOP EXPLOSIVE HAND		D		
A008	QUALITY PROGRAM PLAN		D		
A009	STATUS GFP RPT	N		D	
A010	INTEGRATED MASTER SCH		D	D	
A011	CONTRACT PERFORMANCE RPT		D	D	
A012	PERFORMANCE & COST RPT		D		D
A013	II SP		D	D	
A014	SI FWR RES RPT INIT DEV RPT		D		
A015	SI FWR RES RPT FIN DEV RPT		D	D	
A016	SERVICE LIFE EXT PROGRAM		D		
B001	COST DATA SUMMARY REPORT		D	D	
B002	FUNCTIONAL COST HOUR		D	D	
B003	PROGRESS CURVE REPORT		D	D	
B004	CONTRACT FUNDS STATUS		D	D	
B005	CONT SOP EXPLOSIVE HAND		D		
B006	INTEGRATED MASTER SCH		D	D	
B007	CONTRACT PERFORMANCE RPT		D	D	
B008	PERFORMANCE & COST RPT		D		

HQ0276-11-C-0002
LEGEND FOR DISTRIBUTION REQUIREMENTS
APPENDIX A, B, and C

ENTRY	DESCRIPTION
* (ASTERISK)	ADDITIONAL DISTRIBUTION MAY BE REQUIRED BY THE FACILITY DATA MANAGER AS LISTED IN APPENDIX A.
N	ELECTRONIC NOTIFICATION DISTRIBUTION VIA CDMS (WITH HARD COPY DISTRIBUTION ONLY AS NECESSARY)
D	ELECTRONIC NOTIFICATION DISTRIBUTION VIA FACILITY DATA MANAGER (WITH HARD COPY DISTRIBUTION ONLY AS NECESSARY)
N	DISTRIBUTION MADE TO ANOTHER DATABASE

DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION				1. CLEARANCE AND SAFEGUARDING	
<i>(The requirements of the DoD Industrial Security Manual apply to all aspects of this effort)</i>				a FACILITY CLEARANCE REQUIRED TOP SECRET	
				b LEVEL OF SAFEGUARDING REQUIRED TOP SECRET	
2. THIS SPECIFICATION IS FOR: (X and complete as applicable)			3. THIS SPECIFICATION IS: (X and complete as applicable)		
<input checked="" type="checkbox"/>	a PRIME CONTRACT NUMBER HQ0276-11-C-0002	<input type="checkbox"/>	a ORIGINAL (Complete date in all cases)	Date (YYYYMMDD) 2011/01/21	
<input type="checkbox"/>	b SUBCONTRACT NUMBER	<input checked="" type="checkbox"/>	b REVISED (Supersedes all previous specs)	Revision No 2	Date (YYYYMMDD) 2015/05/13
<input type="checkbox"/>	c SOLICITATION OR OTHER NUMBER HQ0276-11-R-0002		Due Date (YYYYMMDD)	<input type="checkbox"/>	c FINAL (Complete Item 5 in all cases) Date (YYYYMMDD)
4. IS THIS A FOLLOW-ON CONTRACT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO. If Yes complete the following					
Classified material received or generated under 11Q0276-08-C-0001 (Preceding Contract Number) is transferred to this follow-on contract					
5. IS THIS A FINAL DD FORM 254? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes complete the following					
In response to the Contractor's request dated _____, retention of the identified classified material is authorized for the period of _____.					
6. CONTRACTOR (Include Commercial and Government Entity (CAGE) Code)					
a. NAME, ADDRESS, AND ZIP CODE Raytheon Company 1151 East Hermans Road Tucson, AZ 85756		b. CAGE CODE 15090	c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code) Defense Security Service (IOFWX) 10851 N. Black Canyon Hwy, Suite 860 Phoenix, AZ 85029-4755		
7. SUBCONTRACTOR					
a. NAME, ADDRESS, AND ZIP CODE		b. CAGE CODE	c. COGNIZANT SECURITY OFFICES (Name, Address, and Zip Code)		
8. ACTUAL PERFORMANCE					
a. LOCATION See Block 13, Reference Item 8.a		b. CAGE CODE	c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code)		
9. GENERAL IDENTIFICATION OF THIS PROCUREMENT					
Engineering and Technical Support for Standard Missile-3 and Block IA sustainment efforts and Block IB.					
10. THIS CONTRACT WILL REQUIRE ACCESS TO:		YES	NO	11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:	
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION		<input checked="" type="checkbox"/>	<input type="checkbox"/>	a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY	
b. RESTRICTED DATA		<input checked="" type="checkbox"/>	<input type="checkbox"/>	b. RECEIVE CLASSIFIED DOCUMENTS ONLY	
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION		<input checked="" type="checkbox"/>	<input type="checkbox"/>	c. RECEIVE AND GENERATE CLASSIFIED MATERIAL	
d. FORMERLY RESTRICTED DATA		<input checked="" type="checkbox"/>	<input type="checkbox"/>	d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE	
e. INTELLIGENCE INFORMATION		<input checked="" type="checkbox"/>	<input type="checkbox"/>	e. PERFORM SERVICES ONLY	
(1) Sensitive Compartmented Information (SCI)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES	
(2) Non-SCI		<input checked="" type="checkbox"/>	<input type="checkbox"/>	g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER	
f. SPECIAL ACCESS INFORMATION		<input checked="" type="checkbox"/>	<input type="checkbox"/>	h. REQUIRE A COMSEC ACCOUNT	
g. NATO INFORMATION		<input checked="" type="checkbox"/>	<input type="checkbox"/>	i. HAVE A TEMPEST REQUIREMENT	
h. FOREIGN GOVERNMENT INFORMATION		<input checked="" type="checkbox"/>	<input type="checkbox"/>	j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS	
i. LIMITED DISSEMINATION INFORMATION		<input type="checkbox"/>	<input checked="" type="checkbox"/>	k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE	
j. FOR OFFICIAL USE ONLY INFORMATION		<input checked="" type="checkbox"/>	<input type="checkbox"/>	l. OTHER (Specify)	
k. OTHER (Specify)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	- Restrict Access to Contractor's Unclassified Automated Information System (AIS). - Require CNet/SIPR/JWICS	

12. PUBLIC RELEASE Any information (classified or unclassified) pertaining to this contract shall not be released for public dissemination except as provided by the Industrial Security Manual or unless it has been approved for public release by appropriate U.S. Government authority. Proposed public release shall be submitted for approval prior to release.

Direct

Through (Specify)

Missile Defense Agency/AB

17211 Avenue D, Ste. 160

Dahlgren, VA 22448

to the Directorate for Freedom of Information and Security Review, Office of the Assistant Secretary of Defense (Public Affairs)* for review
*In the case of non-DoD User Agencies, requests for disclosure shall be submitted to that agency.

13. SECURITY GUIDANCE. The security classification guidance needed for this effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in this guidance, the Contractor is authorized and encouraged to provide recommended changes, to challenge the guidance or classification assigned to any information or material furnished or generated under this contract, and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the information involved shall be handled and protected at the highest level of classification assigned or recommended. (Fill in as appropriate for the classified effort. Attach, or forward under separate correspondence, any document/guides/extracts referenced herein. Add additional pages as needed to provide complete guidance.)

Per the DD Form 441, Department of Defense Security Agreement, Section VI, signed by the United States Government through the Defense Security Service and the Contractor, the government is not obligated to provide funds and shall not be liable for any security costs or claims of the Contractor arising out of the DD Form 441 Agreement, its instructions, or the requirements identified in the DoD 5220.22-M, National Industrial Security Program Operating Manual (NISPOM), and its changes/revisions.

The Contractor is required to flow-down all applicable requirements of the DD Form 254 to its Subcontractor(s).

Direct all questions pertaining to the DD Form 254 to the MDA Industrial Security office by phone at 256-313-9429, by email at MDAIndustrialSecurity@mda.mil, or by mail to MDA, ATTN: Industrial Security Office (EIR), Building 5222 Martin Road, Redstone Arsenal, AL 35898.

Contracting Officer's Representative (COR) DD Form 254 Concurrence:

(b)(6)

See Continuation Pages

14. ADDITIONAL SECURITY REQUIREMENTS. Requirements, in addition to ISM requirements, are established for this contract. (If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide a copy of the requirements to the cognizant security office. Use Item 13 if additional space is needed.)

Yes

No

See Reference Items 10.e.(1), 10.f, 10.j, 11.j, and 14.

15. INSPECTIONS. Elements of this contract are outside the inspection responsibility of the cognizant security office. (If Yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use Item 13 if additional space is needed.)

Yes

No

MDA/DIA is responsible for inspection of SAP and SCI under this contract.

16. CERTIFICATION AND SIGNATURE. Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL

(b)(6)

b. TITLE

Assistant Director, BMDS Acquisition
Security (EIR)

c. TELEPHONE (Include Area Code)

(b)(6)

d. ADDRESS (Include ZIP Code)

Missile Defense Agency
5222 Martin Road
Redstone Arsenal, AL 35898

e. SIGNATURE

(b)(6)

17. REQUIRED DISTRIBUTION

CONTRACTOR

SUBCONTRACTOR

COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR

U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION

ADMINISTRATIVE CONTRACTING OFFICER

OTHERS AS NECESSARY MDA Industrial Security

SECURITY GUIDANCE (BLOCK 13) CONTINUATION PAGES:

Special Instructions:

Reporting Requirements:

The Contractor shall provide the following to the MDA Industrial Security Office (contact information listed in block 13 of page two of the DD Form 254):

- Courtesy copy the MDA Industrial Security Office on any security incident report (initial and final) involving the loss, compromise, or suspected compromise of classified information sent to the Defense Security Service. The Contractor shall provide a copy to the MDA within the same reporting timeframe as is required by the Defense Security Service
- Courtesy copy the MDA Industrial Security Office on any report involving a cyber-intrusion of MDA program information sent to the Federal Bureau of Investigation and the Defense Security Service per NISPOM Chapter 1, Section 301 and Industrial Security Letter 2013-05.
- Provide a copy of any Defense Security Service letter that indicates a less than satisfactory security rating and/or that negatively impacts the Facility Clearance Level (FCL) of the company within 48-hours of receipt.
- Provide electronic copies of Subcontractor DD Form 254s issued by the Prime and the Subcontractor. The Prime Contractor shall act as the focal point for collecting their Subcontractor's DD Form 254s and the Prime is responsible for forwarding these DD Form 254s to the MDA Industrial Security Office.

Subcontractor Classified Access Approvals:

The Prime Contractor and Subcontractor are authorized to flow access to and/or dissemination of classified information to the TOP SECRET level to their Subcontractor. Dissemination is only authorized and applicable for information safeguarded at the Contractor's facility. This authorization includes access to Non-Sensitive Compartmented Information (SCI) (NISPOM Chapter 9, Section 304), Communications Security (COMSEC) (NISPOM Chapter 9, Section 407), Critical Nuclear Weapon Design Information (CNWDI) (NISPOM Chapter 9, Section 204), and North Atlantic Treaty Organization (NATO) (NISPOM Chapter 10, Section 708) information. The Contractor shall provide the appropriate accesses to its Subcontractors as required per NISPOM 5-502. The Prime Contractor and Subcontractor must verify Facility Clearance, Safeguarding Capability and Access Authorizations prior to the dissemination of classified information. The following require specific authority: SCI - not authorized to flow without prior approval from MDA/Special Security and Special Access Program (SAP) - not authorized to flow without prior approval from MDA/Special Programs.

Reference Item 8.a. (continued) Government Locations:

Classified performance will occur at various MDA and/or government locations as directed by the contract via the Performance Work Statement, Statement of Work, or Statement of Objectives or other agreement. The Contractor shall abide by the host government security requirements per NISPOM Chapter 1, Section 200 and Chapter 6, Section 105c. The cognizant security office at the performance location is MDA or the host installation.

Reference Item 8.a. (continued) Performance Locations include the following Contractor Facilities:

a. LOCATION	b. CAGE CODE	c. COGNIZANT SECURITY OFFICE
Raytheon Company 1151 East Hermans Road Tucson, AZ 85756	15090	Phoenix Field Office (IOFWX) 10851 N. Black Canyon Hwy, Suite 860 Phoenix, AZ 85029-4755

Per NISPOM Chapter 5 Section 504, the Contractor can disclose classified information between cleared facilities within the Multiple Facility Organization (MFO). MDA does not limit which cleared locations are considered performance locations within the MFO. It is the Contractor's responsibility to comply with Defense Security Service policy and procedures for establishing a classified performance location within the MFO structure. This guidance does not apply to government locations or other Contractor company locations at which the prime Contractor will be conducting classified performance.

Reference Item 10.a and 11.h: The Contractor shall comply with the requirements of NISPOM Chapter 9, Section 4 and National Security Agency/Central Security Service Policy Manual Number 3-16, Control of Communications Security (COMSEC) Material, for access to and safeguarding of COMSEC information.

Reference Item 10.b & d: Contractors shall adhere to the requirements of DoDI 5210.02, "Access to and Dissemination of Restricted Data (RD) and Formerly Restricted Data (FRD)," 3 June 2011, for access and training requirements. **Flow this requirement to subcontractors when applicable.**

1. Contractors shall possess a valid DoD security clearance at a level commensurate with the information concerned and shall have a need-to-know for access. DoD contractors require a final Secret security clearance for access to Secret RD information. Contractors shall have a final Top Secret security clearance for access to Top Secret RD information. NISPOM section 2-211a. applies.

2. The Prime contractor and its subcontractors shall be required to complete training for access to RD/FRD material and for derivative classification of RD/FRD information. This training is provided by the Department of Energy (DOE) and can be accessed at the DOE website (<http://energy.gov/hss/services/classification/classification-training-institute/training-other-agency-personnel>).

a. For individuals with access to RD/FRD information, personnel shall complete the "Classification of Nuclear Weapons-Related Information (Restricted Data and Formerly Restricted Data)" course. The contractor company shall maintain a record of the training for each individual with access to RD/FRD. These records shall be made readily available during security inspections or for other government purposes. Records shall be maintained for two years after an individual no longer requires access to RD/FRD information.

b. For individuals who will conduct derivative classification, personnel shall complete the "Restricted Data Classifiers Course." Upon completion of the course, the contractor company shall request a written exam from MDA. MDA will grade the written exam and will provide a certificate of completion. The contractor shall at a minimum obtain an 80% to successfully pass the exam. The contractor company shall maintain a record of the training for each individual designated as a RD Classifier. These records shall be made readily available during security inspections or for other government purposes. Records shall be maintained for two years after an individual is no longer designated as a RD Classifier.

3. Contractors should contact the MDA Industrial Security office listed in block 13 of the DD 254 for information and materials concerning the RD Classifier exam.

Reference Item 10.c: NISPOM Chapter 9, Section 2 requirements apply. Access to Critical Nuclear Weapons Design Information requires a final clearance.

Reference Item 10.e.(1): This contract requires access to Sensitive Compartmented Information (SCI) material. The Contractor is not required to have an accredited SCI Facility but requires access to SCI at other locations. Additionally, the Facility Security Officer will ensure that when a Contractor with access to SCI is due for a Periodic Reinvestigation, the Periodic Reinvestigation request is conducted to meet SCI standards. Written U.S. Government approval by MDA/Special Security is required prior to giving SCI access to a Subcontractor. Additional requirements are included in the attached SCI Supplement.

Reference Item 10.e.(2): NISPOM Chapter 9, Section 3 requirements apply.

Reference Item 10.f: Requirements are included in the attached SAP Supplement.

Reference Item 10.g: NISPOM Chapter 10, Section 7 requirements apply.

Reference Item 10.h: NISPOM Chapter 10, Section 3 requirements apply.

Reference Item 10.j: See For Official Use Only/Controlled Unclassified Information (FOUO/CUI) Supplement below. **The Contractor is required to provide the supplement to all uncleared Subcontractors requiring access to FOUO/CUI information.**

Reference Item 11.c: The Contractor has a responsibility to understand and use all applicable Security Classification Guidance (SCG) provided by the government (reference NISPOM 4-102). The MDA has provided a list below of necessary SCGs required to conduct derivative classification. The Contractor shall request the required SCGs from the Contracting Officer's Representative (COR). The MDA has the obligation to review existing guidance periodically during the performance stages of the contract and to issue a revised DD Form 254 when a change to the SCGs occurs or when additional SCGs are needed (reference NISPOM Chapter 4, Section 103b.). The Contractor shall flow-down required SCGs on its Subcontractor DD Form 254s and shall provide copies of the SCGs to its Subcontractor. The following security classification guidance applies:

1. Ballistic Missile Defense System (BMDS) Security Classification Guide (SCG), dated 19 October 2010 to include Admin Changes dated 11 July 2011.
2. Aegis Ballistic Missile Defense (ABMD) Security Classification Guide (SCG), dated 22 May 2009, to include Admin Changes dated 11 July 2011.
3. OPNAVINST 5513.3C Standard Missile - 2/3/4/6 Security Classification Guide (SCG), I.D. #03-63.8, dated 01 October 2012.
4. USSTRATCOM Integrated Missile Defense (IMD) Security Classification Guide (SCG), dated 01 January 2015.
5. OPNAVINST 5513.3C, SCG ID# 03-11.3, Aegis MK7 Security Classification Guide (SCG), dated 04 May 2011.
6. OPNAVINST 5513.3, SCG ID# 03-37.2, MK 41 Vertical Launching System (VLS) Security Classification Guide (SCG), dated 05 May 2011.
7. USAF Anti-Tamper (AT) Security Classification Guide (SCG), 17 March 2010, to include Change I Letter, dated 18 April 2011.
8. USNORTHCOM Ballistic Missile Defense (BMD) Operations Security Classification Guide (SCG), dated 11 March 2011.
9. DoDI-S-5230.28, Low Observable (LO) and Counter-Low Observable (CLO), dated 26 May 2005
10. Low/Counter Low Observable Programs Security Classification Guide (SCG), dated 01 October 2002
11. Other Security Classification Guides will be provided as required. Please see contract statement of work for additional guidance pertaining to possible alternative information security management controls on this contract.

Reference Item 11.d: The Contractor is required to provide adequate storage and transportation for classified hardware to the level of TOP SECRET. If the classified hardware is of such a size or quantity that it cannot be safeguarded in a regular-sized GSA-approved storage container, a Closed Area, Vault, or additional security containers may be required. Per the NISPOM, the Defense Security Service has responsibility for the authorization and approval of all Closed Areas and/or Vaults within the Contractor's facility.

Reference Item 11.f:

1. The Contractor shall require access to classified information overseas at areas designated in the Statement of Work, Performance Work Statement, or Statement of Objectives.
2. All Contractor personnel working at the designated location(s) and accessing classified information shall obtain an Area of Responsibility-specific travel briefing and Antiterrorism Level I Awareness training prior to departing on travel. Required training shall be received within 90 days prior to travel.
3. The Contractor shall submit foreign visit requests as dictated by the NISPOM, Chapter 10, Section 5. A Contractor shall submit the visit request through the Defense Security Service-designated security official.
4. The Contractor is not authorized per the NISPOM to establish a contractor facility outside of the U.S., its possessions, or its territories. Storage, custody, and control of classified information required by a U.S. Contractor employee abroad is the responsibility of the U.S. Government. Storage of classified information shall be at a U.S. military facility, a U.S. Embassy or Consulate, or another location occupied by a U.S. Government organization.

Reference Item 11.g: The Contractor is authorized to use the services of the Defense Technical Information Center (DTIC) or other secondary distribution center. As required, the Contractor will prepare and submit the DD Form 1540, "Registration for Scientific and Technical Information Services" and DD Form 2345, "Militarily Critical Technical Data Agreement" to the contracting office for approval. Subcontractors are required to submit requests through the Prime Contractor.

Reference Item 11.j: The Contractor is required to apply Operations Security (OPSEC) to enhance protection of classified and unclassified critical information pursuant to DoD Directive 5205.02, "DoD OPSEC Program; DoD 5205.02-M, "OPSEC Program Manual;" National Security Decision Directive Number 298, "National Operations Security Program;" MDA Instruction 5205.02, "OPSEC Program;" and supplementary instructions. Service OPSEC guidance may also apply if the contracted activity is performed in a Service-level operational environment. If a conflict is identified between Service and higher-level guidance, contact the MDA OPSEC Staff for clarification.

Reference Item 11.i:

Contractor's Unclassified Automated Information System (AIS):

1. The Contractor shall safeguard and protect CUI provided by or generated for the Government (other than public information) that transits or resides on any non-Government information technology system IAW the procedures in DoDI 8582.01, "Security of Unclassified DoD Information on Non-DoD Information Systems," June 6, 2012, Enclosure 3. Information shall be protected from unauthorized access, disclosure, incident or compromise by extending the safeguarding requirements and procedures in DFARS clause 252.204-7012, Safeguarding of Unclassified Controlled Technical Information. The NIST 800-53 security controls specified in

252.204-7012 shall be extended to include Controlled Unclassified Information (CUI) information which resides on, or transits through the contractor's (prime and all sub-contractors) unclassified information technology systems.

2. The contractor shall ensure that all persons accessing CUI, which includes FOUO, meet the qualifications for an Automated Data Processing/Information Technology (ADP/IT)-III Position requirement).

3. The "For Official Use Only/Controlled Unclassified Information Supplement" provides additional guidance for the handling, marking, transmission, reproduction, safeguarding, and disposition of FOUO/CUI.

4. MDA-reserves the right to conduct compliance inspections of Contractor unclassified information systems and other repositories for the protection of FOUO/CUI.

Reference Item 12: The Prime Contractor shall forward all requests for public release authorization through the Contracting Officer's Representative to the listed MDA program office. Per NISPOM section 5-511, the Contractor shall include all necessary information to assist with the decision of the MDA program office. Per NISPOM Chapter 7, Section 102c., the Prime Contractor shall act as the focal point for all Subcontractor requests for public release. A lack of response from the MDA program office does not constitute as public release authorization. The Prime Contractor shall not release information to the public prior to receiving written authorization from the MDA program office (this requirement includes any information system that provides public access).

Reference Item 14: Program Protection is required for this contract. The interdisciplinary requirements associated with Program Protection are further addressed in Sections C & J of this contract and detailed in the Government issued Program Protection Plan (PPP). The contractor shall implement applicable security countermeasures to protect classified and/or unclassified Critical Program Information and Critical Components as outlined in the Statement of Work/Performance Work Statement/Statement of Objectives and refined in the PPP.

**FOR OFFICIAL USE ONLY/CONTROLLED UNCLASSIFIED
INFORMATION SUPPLEMENT**

I. Definitions.

a. Controlled Unclassified Information (CUI). Unclassified information which requires access and distribution limitations prior to appropriate coordination and an official determination by cognizant authority approving clearance of the information for release to one or more foreign governments or international organizations, or for official public release. Per DoD Manual 5200.01, Volume 4 it includes the following types of information: "For Official Use Only" (FOUO); "Sensitive But Unclassified" (State Department information); "DEA Sensitive Information" (Drug Enforcement Agency information); "DoD Unclassified Controlled Nuclear Information"; "Sensitive Information" as defined in the Computer Security Act of 1987; and information contained in technical documents (i.e., Technical Data) as discussed in DoD 5230.24, 5230.25, International Traffic in Arms Regulation (ITAR), and the Export Administration Regulations (EAR).

b. Dual Citizenship. A dual citizen is a citizen of two nations. For the purposes of this document, an individual must have taken an action to obtain or retain dual citizenship. Citizenship gained as a result of birth to non-U.S. parents or by birth in a foreign country to U.S. parents thus entitling the individual to become a citizen of another nation does not meet the criteria of this document unless the individual has taken action to claim and to retain such citizenship.

c. For Official Use Only (FOUO). FOUO is a dissemination control applied by the DoD to unclassified information that may be withheld from public disclosure under one or more of the nine exemptions of the Freedom of Information Act (FOIA) (See DOD 5400.7-R). FOUO is not a form of classification to protect U.S. national security interests.

d. National of the United States. Title 8, U.S.C. Section 1101(a)(22), defines a National of the U.S. as:

- (1) A citizen of the United States, or,
- (2) A person who, but not a citizen of the U.S., owes permanent allegiance to the U.S.

NOTE: 8 U.S.C. Section 1401, paragraphs (a) through (g), lists categories of persons born in and outside the U.S. or its possessions that may qualify as Nationals and Citizens of the U.S. This subsection should be consulted when doubt exists as to whether or not a person can qualify as a National of the U.S.

e. U.S. Person. Any form of business enterprise or entity organized, chartered, or incorporated under the laws of the United States or its possessions and trust territories and any person who is a citizen or national (see National of the United States) of the United States, or permanent resident of the United States under the Immigration and Nationality Act.

2. Access.

a. Access to FOUO/CUI must be limited to U.S. Persons that have a current U.S. security clearance (minimum interim SECRET clearance); or have been the subject of a favorably completed National Agency Check with Inquiries (NACI) or a more stringent personnel security investigation. Access approval by MDA/Special Security is pending completion of a favorable NACI or Contractor equivalent.

(1) Contractor Equivalent: Contractor equivalent includes various background checks such as those performed by employers during hiring process. Minimum checks shall include Citizenship, Personal Identification (Social Security Number), Criminal, and Credit. Contractors shall submit a request for approval on company letter head to MDA/Special Security.

(2) Contractor personnel with dual citizenship that have an active U.S. security clearance (interim Secret or higher) can have access to FOUO/CUI material.

(3) Contractor personnel with dual citizenship that do not have an active U.S. security clearance (interim Secret or higher), the following actions will be completed prior to authorizing access to FOUO/CUI material:

(a) The dual citizen shall surrender the foreign passport to the security office

(b) The Contractor Company shall provide a signed letter to the dual citizen informing them that if they request their passport be returned to them, or they obtain a new foreign passport, they will be immediately removed from the MDA program. The dual citizen shall acknowledge by signing and dating the letter.

(c) The MDA Program Manager and MDA/Special Security shall be notified and will provide written approval.

b. Non-Sensitive Positions (ADP/IT-III positions). Non-sensitive positions associated with FOUO/CUI are found at Contractor facilities processing such information on their (Contractor's) unclassified computer systems. Personnel nominated to occupy ADP/IT-III designated positions (applies to any individual that may have access to FOUO/CUI on the Contractor's computer system) must have at least a National Agency Check with Inquiries (NACI) or Contractor equivalent (company hiring practices reviewed and approved by MDA/Special Security). When "Contractor equivalent" option is NOT authorized and there is no record of a valid investigation, the Contractor shall contact MDA/Special Security at mdasso@mda.mil, and provide the requested information. MDA/Special Security will assist the Contractor complete the SF85, Position of Trust Questionnaire, and fingerprints.

3. Identification Markings. FOUO/CUI shall be marked in accordance with DoDM 5200.01, Volume 4, Enclosure 3, Section 2.c.

4. Handling. Storage of FOUO/CUI outside of Contractor facilities (i.e. residence, telework facility, hotel, etc.) shall be in a locked room, drawer, filing cabinet, briefcase, or other storage device, so that access to the material by unauthorized individuals. Continuous storage of FOUO/CUI outside of a Contractor facility shall not exceed 30 days unless government approval is granted.

5. Transmission/Dissemination/Reproduction.

a. Subject to compliance with official distribution statements, FOUO markings (e.g., Export Control, Proprietary Data) and/or Non-Disclosure Agreements which may apply to individual items in question; authorized Contractors, consultants and grantees may transmit/disseminate FOUO/CUI information to each other, other DoD Contractors and DoD officials who have a legitimate need to know in connection with any DoD authorized contract, solicitation, program or activity. The government Procuring Contracting Officer (PCO) will confirm with the Contracting Officer's Representative or Task Order Monitor "legitimate need to know" when required. The MDA/Chief Information Officer has determined that encryption of external data transmissions of FOUO/CUI are now practical. The MDA/Chief Information Officer has stated that Public Key Infrastructure (PKI) and Public Key (PK) enabling technologies are available and cost effective. The following general guidelines apply:

(1) In accordance with DoD Manual 5200.01, Volume 4, "Controlled Unclassified Information (CUI)," Enclosure 3, external electronic data transmissions of CUI/FOUO shall be only over secure communications means approved for transmission of such information. Encryption of e-mail to satisfy this requirement shall be in accordance with MDA Directive 8190.01, Electronic Collaboration with Commercial, Educational, and Industrial Partners, May 12, 2009, being accomplished by use of DoD approved Public Key Infrastructure Certification or by the company's participation in the "Federal Bridge."

(2) The MDA/Chief Information Officer (CIO), PKI Common Access Card (CAC) point of Contact is, Ms. Ingrid Weecks (719-721-7040).

b. Failure of the Contractor to encrypt FOUO/CUI introduces significant risks to the BMDS mission. It is essential for the Contractor to understand that mitigation options that are available. The Contractor must understand that failure to encrypt FOUO/CUI carries with it certain risks to the mission. These risks can be mitigated with the thoughtful application of processes, procedures, and technology. Some of the available mitigation tools include:

- (1) Approved DoD PKI/CAC hardware token certificates or DoD trusted software certificates for encrypting data in transport.
- (2) Industry best practice of Virtual Private Network (VPN) Internet Protocol Security (IPSEC) for intra-organization transport.
- (3) Industry best practice of Secure Sockets Layer Portal Web Services for document sharing and storage
- (4) Approved DoD standard solutions for encrypting data at rest.
- (5) Approved DoD E-Collaboration services via MDA Portal or Defense Information Systems Agency (DISA) Network Centric Enterprise Services (NCES).

- (6) Any FIPS 140-2 validated encryption [e.g., IPSEC, Secure Socket Layer/Transport Layer Security (SSL/TLS), Secure/Multipurpose Internet Mail Extension (S/MIME).
- (7) Procure and employ Secure Telephone Equipment (STE).
- (8) Procure and employ secure facsimile (FAX) capability.
- (9) Utilize secure VTC capabilities.
- (10) Hand-carry FOUO/CUI.
- (11) Utilize mailing through U.S. Postal Service.
- (12) Utilize overnight express mail services.

c. FOUO/CUI shall be processed and stored internally on Automated Information Systems (AIS) or networks 1) when distribution is to an authorized recipient and 2) if the receiving system is protected by either physical isolation or a password protection system. Holders shall not use general, broadcast, or universal e-mail addresses to distribute FOUO/CUI. Discretionary access control measures may be used to preclude access to FOUO/CUI files by users who are authorized system users, but who are not authorized access to FOUO/CUI. External transmission of FOUO/CUI shall be secured using NIST-validated encryption. FOUO/CUI cannot be placed on any publically-accessible medium.

d. Reproduction of FOUO/CUI may be accomplished on unclassified copiers within designated government or Contractor reproduction areas.

6. Storage. During working hours, reasonable steps shall be taken to minimize the risk of access by unauthorized personnel (e.g., not reading, discussing, or leaving FOUO/CUI information unattended where unauthorized personnel are present). After working hours, FOUO/CUI information may be stored in unlocked containers, desks, or cabinets if contract building security is provided. If such building security is not provided or is deemed inadequate, the information shall be stored in locked desks, file cabinets, bookcases, locked rooms, etc.

7. Disposition.

a. When no longer required, FOUO/CUI shall be returned to the MDA office that provided the information or destroyed by any of the means approved for the destruction of classified information or by any other means that would make it difficult to recognize or reconstruct the information.

b. Removal of the FOUO/CUI status can only be accomplished by the government originator. The MDA COR shall review and/or coordinate with proper authority the removal of FOUO/CUI status for information in support of contract activity.

Special Access Program (SAP) Supplement

Contract No: HQ0276-11-C-0002
March 21, 2014 Version—all other versions obsolete

1. Item 10f:

a. This contract involves DoD SAPs. Strict requirements for need-to-know, special handling, physical security measures, and administrative controls beyond the requirements of the National Industrial Security Program (NISP) are required. SAP participants must comply with the enhanced security procedures outlined in this document.

b. Access to MDA SAP information or material is authorized only at facilities and locations specifically approved by MDA Special Programs. Access to SAP information requires a final U.S. Government SECRET clearance with a favorable NACLC, PRS, SSBI, PPR, or periodic reinvestigation, as appropriate, completed within the last five (5) years, an approved SAP nomination, and a signed special access non-disclosure agreement prior to access. The government program security officer (PSO) will contact the contractor facility security officer (FSO) to obtain security information on facilities and personnel required to perform on this contract.

c. All SAP work, regardless if in a prime or subcontractor's location, will be performed in an MDA-approved SAP facility (SAPF). If there is a requirement to discuss, store, or process SAP information in an existing sensitive compartmented information facility (SCIF), SAPF, or closed area, a memorandum of understanding (MOU) for co-utilization must be executed between the MDA-cognizant SAP security representative and the other government or contractor customer cognizant security representative. A co-utilization agreement (CUA) is required between MDA Special Programs and the SCI-cognizant security authority (CSA) prior to introduction of MDA-sponsored SAP data into a SCIF. A standard operating procedure (SOP) will be written for each SAPF and coordinated with MDA Special Programs.

2. Item 11h: Consult with MDA Special Programs prior to ordering encryption devices or COMSEC keying material (other than STEs) to support SAP transmissions.

3. Item 11i: TEMPEST requirements may be necessary in the performance of this contract in accordance with program requirements, JAFAN 6/3, and where appropriate, JAFAN 6/0.

4. Item 11j: OPSEC measures are necessary in the performance of this contract. Specific guidance will be provided by MDA Special Programs.

5. Item 12:

a. Public release of SAP information is prohibited. Do not release documents or other materials pertaining to this effort to the Defense Technical Information Center (DTIC) or any other such information service under any circumstance. A pre-publication and/or presentation(s) review is required prior to the use of any classified or unclassified information which is either tangentially or directly related to any SAP. In each case, approval must be obtained from the MDA SAP Central Office (SAPCO). The request must be submitted by the person who desires

to make the publication or presentation, via the contractor program security officer (CPSO) to the MDA government program security officer.

b. The contractor shall not use references to SAP accesses (nicknames, code words, et. al) or information, even by unclassified acronyms, in advertising, promotional efforts, or employee recruitment.

6. Item 13: The Government PSO will provide additional security classification guides (SCG) specific to the SAPs under this contract. Contractors will classify SAP material in accordance with the provided SCGs and applicable publications listed in Item 14.

a. Prior to processing, storing, transmitting, transferring, or communicating MDA SAP information on any IS or network, the contractor shall comply with certification and accreditation controlling laws, regulations, DoD and MDA SAPCO policy as referenced in Item 14 and be required to obtain the requisite accreditation to test or operate from the MDA SAPCO Designated Accrediting Authority (DAA).

b. The Contractor shall employ physical security safeguards for IS(s) and/or networks involved in processing or storage of Government information/data to prevent unauthorized access, disclosure, modification, destruction, use, and to otherwise protect the confidentiality and ensure use conforms with DoD regulations.

7. Item 14: Contractors performing under this contract will use the below listed security publications unless exempted by MDA Special Programs. MDA Special Programs will provide the contractor the below listed publications if the contractor does not have prior access to them.

- a. JAFAN 6/0, Revision 1, "Special Access Program Security Manual."
- b. DoD Joint Special Access Program (SAP) Implementation Guide (JSIG), October 9, 2013
- c. DoD Memo, "Transition to the Risk Management Framework," December 18, 2013
- d. The MDA Special Programs "SAP Nomination Process (SAPNP)."
- e. JAFAN 6/9, "Physical Security Standards for SAP Facilities."
- f. DoD 5220.22M Sup 1, "National Industrial Security Program Operating Manual Supplement; DoD Overprint to the NISPOMSUP."
- g. Applicable PSO-approved facility-specific SOPs, treaty plans, and OPSEC guides.
- h. DoD Directive 5205.07, "Special Access Program (SAP) Policy."
- i. DoD Instruction 5205.11, "Management, Administration, and Oversight of DoD Special Access Programs (SAPs)."
- j. MDA SAPCO Policy, "Certification and Accreditation Program."
- k. National Security Agency/Central Security Service (NSA/CSS) Policy Manual 9-12.
- l. MDA Special Programs, "Top Secret Control Officer's (TSCO's) Guide."
- m. DoD Manual 5205.07, Volume 4, "Special Access Program (SAP) Security Manual: Marking."
- n. DoD "Security Marking Implementation Guide for Special Access Programs."
- o. JAFAN 6/3, Protecting Special Access Program Information Within Information Systems, and JAFAN 6/3 Implementation Guide.

8. Item 15: MDA Special Programs will conduct program/security reviews of all SAPFs, material, and operations related to this contract. DSS oversight over SAP portions of this contract is carved-out.

9. Contract Number. The contractor may be required to establish non-attributable, internal procedures and charge numbers that will be documented in their business financial management procedures as necessary for cost accumulation by uncleared personnel.

10. Subcontracting. Subcontracting must have prior approval from MDA Special Programs. Any classified program activity requiring the use of a subcontractor facility must meet JAFAN 6/9 criteria and be approved by MDA Special Programs.

11. Communications and Transmissions.

a. All material relating to this contract and its administration shall be classified in accordance with MDA and SAP-specific SCGs and this DD Form 254, or as directed by MDA Special Programs.

b. Program-related communications will be conducted on secure communication devices.

12. Vouchers. All invoices submitted under this contract shall be unclassified and shall remain devoid of any information requiring them to be classified or cause an OPSEC concern. The invoice/voucher may not reveal the contractor's name, customer's name, and any funding figures.

13. Legal Counsel. Notify the PCO and MDA Special Programs, in writing, should the contractor require private counsel to represent corporate interests in matters related to or associated with SAP-sponsored activities. The private counsel shall be treated as a subcontractor. In those incidents where the issues are not program-specific, it is the responsibility of appropriately-indoctrinated contractor personnel to prevent inadvertent disclosure of SAP-related information, operational procedures, and/or administrative details.

14. Retention of Program Related Documentation, Software, and Hardware. Upon completion of this contract and acceptance by the government of final deliverables, the contractor shall:

a. Conduct an inventory/audit of all SAP material received and/or generated under this contract and forward it to MDA Special Programs.

b. In accordance with MDA Special Programs direction, the contractor shall destroy administrative security records and related documents using an approved destruction procedure/method and maintain certificates of destruction for final close-out review. Retention of SAP information at the contractor facility is not generally authorized beyond contract close-out unless a follow-on contract or task is anticipated. A written request for authorization for document retention must be forwarded to the PCO and MDA PSO for approval.

15. Issues/Conflict Reporting.

a. Any questions regarding classification, access, or any other security-related issue in regard to the SAP portion of this contract must be referred to MDA Special Programs.

b. Any conflict between instructions contained in Item 14 and this DD Form 254 must be reported to MDA Special Programs by the most expedient and secure means available.



MDA SCI Supplement (Item 10.e (1)) for DD Form 254

This supplement applies to Prime Contract Number: HQ276-11-C-0002 Rev-2

Delivery/Task Order Number: _____. Expiration date: 31 December 2015

A. The following controls will apply to SCI provided under this contract:

1. DoD 5105.21, "Sensitive Compartmented Information Administrative Manual;" ICD 503, "Intelligence Community Information Technology Systems Security Risk Management, Certification and Accreditation;" ICD 704, ICPG 704-1 – 704-5, "Personnel Security Standards and Procedures Governing Eligibility for access to SCI;" ICD 705, ICS 705-1 – 705-2, "Technical Specifications for Construction and Management of Sensitive Compartmented Information Facilities;" DoDM 5200.01, "DoD Information Security Program;" and MDA SCI Manual provide the necessary guidance for physical, personnel, and information security measures, to include proper marking requirements, and is part of the SCI security specifications for the contract. NOTE: CSO or FSO are required to process all SCI administration requirements for all MDA SCI contract efforts per the MDA SCI Manual. The Manual can be obtained by contacting MDA Special Security.

2. Inquiries pertaining to classification guidance will be directed to the responsible MDA Contracting Officer's Representative (COR). The name/phone number for the MDA COR is:

(b)(6)

(Additionally, identify the Company Security POC (FSO/CSO) & phone number and email address at the contractor's/subcontractor's location)

(b)(6)

3. All SCI furnished to the contractor in support of this contract/delivery/task order remains the property of the Department of Defense, or the agency or command that releases it. Upon completion of the contract, SCI furnished to the prime contractor will be returned to MDA or destroyed as directed by the MDA COR. NOTE: Prime contractor and subcontractor company security officers who destroy derivative or MDA generated SCI material will be required to provide a copy of the destruction certificate to the MDA COR.

4. It is the Prime Contractor's responsibility to ensure that all Sub-contractors requesting access to SCI have been properly cleared in accordance with the National Industrial Security Program. The Prime Contractor will provide this SCI Supplement to their Sub-contractors as necessary according to the Sub-contractor's clearance requirements. The Prime Contractor is further advised that SCI Billets used by the Sub-contractor will be subtracted from the total authorized billets allocated for this contract in paragraph 5 below. The COR, the Prime Contractor FSO, and the Sub-contractor FSO will sign SCI nomination requests. A continuing access memo for all current support to the contract must be completed annually and submitted to the MDA SSCO.

5. The contract/delivery/task order requires the following SCI access(es): (COR is required to mark with an "X" the SCI accesses needed to effectively fulfill the SCI contractual obligation) SI X, TK X, G X, HCS X. Access will be granted by the government agency. Upon completion or cancellation of the contract the MDA COR will provide a by name list of all contractors required to be debriefed from SCI to the MDA SSCO before contract close-out. All debriefed contractors will be removed from MDA SCI billets immediately by the SSCO. Based on mission requirements, this contract may authorize up to 07 SCI billets.

6. Contractor personnel requiring access to SCI and justification for MDA SCI billets will be initiated by the company's security officer with validation by the COR per the guidelines in the MDA SCI Manual. The CSO/FSO should only submit contractors employees who have a completed in scope (within the last 5 years) Single Scope Background Investigation (SSBI) for SCI access. Company Security Officers should submit a SCI Nomination Package (Nom Memo, updated SF86 questionnaire and copy of DD Form 254 (Prime & Sub, as required) to the MDA Special Security Contact Office for processing. Submit only personnel that have a real day-to-day need-to-know requirement. NOTE: The MDA SSCO will not accept SF86 questionnaires dated prior to the 2010 version.

7. The CSO/FSO shall advise the MDA SSCO, through the contracting officer's representative, upon reassignment of personnel to other duties not associated with this contract. NOTE: Individual contractors who no longer support a MDA SCI contract will be debriefed from SCI access immediately. Company security officers are required to coordinate with the MDA SSCO to get their individual contractors debriefed.

8. The CSO must coordinate with the MDA COR prior to subcontracting any portion of the SCI efforts involved in their MDA SCI prime contract. A separate DD Form 254, utilizing this SCI Supplement, for the subcontractor will be processed and a copy provided to MDA SSCO. NOTE: The SSCO will not provide any SCI administration support to prime contractors or subcontractors who do not have a signed active DD 254 for an MDA SCI contract.

9. The contractor shall not use references to SCI accesses, even by unclassified acronyms, in advertising, promotional efforts, or recruitment of employees.

10. All SCI work will be performed in a DIA accredited MDA SCIF unless otherwise authorized. Is there a SCIF required at the Contractor's Facility? X Yes or _____ No (COR required to mark and "X" in the appropriate space).

11. AIS SCI Processing. Electronic processing of SCI requires accreditation of the equipment in accordance with ICD 503 and DIAM 50-4.

12. Visit Cert. The contractor FSO/CSO will submit the request for SCI visit certifications per guidelines of the MDA SCI Manual through the COR for approval of the visit. The certification request must arrive at MDA Special Security at least five (5) working days prior to the visit.

13. The contractor will not reproduce any SCI related material without prior written permission of the COR.

14. MDA has exclusive security oversight for all SCI released to the contractor or developed under this contract. Defense Intelligence Agency (DIA) is the cognizant security authority for inspections of MDA-sponsored contractor SCIFs to ensure compliance of SCI Directives and Regulations. MDA Special Security will conduct self-inspections of MDA-sponsored SCIFs.

B. The Missile Defense Agency is designated as the User Agency for SCI requirements.

MDA SSCO: (b)(6)	<u>Special and Personnel Security</u>
MDA SSCO Signature:	(b)(6)
Phone: (b)(6)	

COR/TM/COTR/Directorate designation: (b)(6)	<u>MDA/AB</u>
COR/TM/COTR Signature:	(b)(6)
Phone: (b)(6)	

Directorate Technical Oversight Representative: (b)(6)	(b)(6)
DTOR Signature:	(b)(6)
Phone: (b)(6)	

GOVERNMENT-FURNISHED PROPERTY (PERFORMANCE)

The Government shall provide only that property set forth below, notwithstanding any term or condition of this contract to the contrary. Upon contractor's written request to the cognizant Technical Program Manager, via the cognizant Defense Contract Administration Office, the Government will furnish the following for use in the performance under Attachment 9 of the contract

GOVERNMENT-FURNISHED PROPERTY (INCORPORATION)

The Government will provide only that property set forth below, notwithstanding any term or condition of this contract to the contrary. Upon Contractor's written request to the cognizant Technical Program Manager, via the cognizant Defense Contract Administration Office, the Government will furnish the following for incorporation in the equipment to be delivered under Attachment 9 of this contract.

CLAIMS FOR DEFICIENT GOVERNMENT FURNISHED PROPERTY

Notwithstanding the terms of any other clause of this contract relating to Government Furnished Property, materials, components, subassemblies, units, subsystems, or systems manufactured, assembled, and delivered by the Contractor, its subsidiaries or subcontractors to the Government under prior or concurrent Government contracts, shall be the sole responsibility of the Contractor and shall not be the subject of claims or other equitable adjustments for deficient Government Furnished Property, whether provided for incorporation or facilities use. Property delivered from Government-controlled inventory shall be inspected by the Contractor to verify condition and suitability for use, and any deficiencies reported to the Contracting Officer will not be the responsibility of the Contractor. Further, the Contractor agrees that late delivery of Government Furnished Property for incorporation and facilities use under this contract shall not be the subject of claims or other requests for equitable adjustment, if the late delivery is due to late delivery from the Contractor, its subsidiaries or subcontractors. The Contractor expressly agrees that it is responsible for the adequacy, suitability, performance, and timely delivery of those items noted above provided by the Government under this contract.

RENT-FREE USE OF GOVERNMENT PROPOERTY

The Contractor may use on a rent-free, non-interference basis, as necessary for the performance of this contract, the Government property accountable under Contract(s). The Contractor is responsible for scheduling the use of al property covered by the above referenced contract(s) and the Government shall not be responsible for conflicts, delays, or disruptions to any work performed by the Contractor due to use of any or all of such property under this contract or any other contracts under which use of such property is authorized.

N00024-96-C-5301
N00024-96-C-5337
N00024-96-C-5353
N00024-98-C-5364
N00024-99-C-5373
N00024-99-C-5375
N00024-00-C-5390
N00024-00-C-5399
N00024-02-C-5312
N00024-02-C-5319
N00024-03-C-5330
N00024-03-C-6111
N00024-04-C-5342
N00024-04-C-5344
N00024-04-C-5350
N00024-04-C-5361
F33657-93-C-2257
HQ0276-08-C-0001
N00024-07-C-5361
HQ0276-08-C-0001
HQ0276-10-C-0005
N00024-07-C-6119

RENT-FREE USE OF GOVERNMENT PRODUCTION AND RESEARCH PROPERTY (AS IS)

The Contractor may use on a rent free basis, as necessary for the performance of this contract, Government production and research property (as defined in FAR 45.301) accountable under Contract(s). The said property shall be governed by the terms and conditions of the contract(s) under which it is accountable. No representation or warranty is made by the Government as to the fitness or suitability of said property for its intended use under this contract; it being understood and agreed that the said property is being made available for use under this contract on an "as is" basis in accordance with the clause entitled "GOVERNMENT PROPERTY FURNISHED 'AS IS'" (FAR 52.245-1(d)(2)(iii)).

N00024-96-C-5301
N00024-96-C-5337
N00024-96-C-5353
N00024-98-C-5364
N00024-99-C-5373
N00024-99-C-5375
N00024-00-C-5390
N00024-00-C-5399
N00024-02-C-5312
N00024-02-C-5319
N00024-03-C-5330
N00024-03-C-6111
N00024-04-C-5342
N00024-04-C-5344
N00024-04-C-5350
N00024-04-C-5361
F33657-93-C-2257
HQ0276-08-C-0001
N00024-07-C-5361
HQ0276-08-C-0001
HQ0276-10-C-0005
N00024-07-C-6119

**HQ0276-11-C-0002
GFP TABLE**

In Accordance with FAR 52.245-1(d)(2)(iii)

1. Missile Components (US)							
EQUIPMENT	MK-MOD/P/N	New	NEED DATE	LOCATION	CLIN	Comments	
(b)(3):10 USC § 130					3	FTR	

2. COMSEC							
EQUIPMENT	MK-MOD/P/N	New	NEED DATE	LOCATION	CLIN	Comments	
(b)(3):10 USC § 130						TBD	
						TBD	
		0	n/a				
		0	n/a				

3. COMSEC (ATE needs)							
EQUIPMENT	MK-MOD/P/N	New	NEED DATE	LOCATION	CLIN	Comments	
(b)(3):10 USC § 130						TBD	
						TBD	
		0	n/a		3		

4. SPECIAL TEST EQUIPMENT							
EQUIPMENT	MK-MOD/P/N	New	NEED DATE	LOCATION	CLIN	Comments	
(b)(3):10 USC § 130		x	on hand	(b)(3):10 USC § 130,(b)(4)	3	RFU	
		x	on hand		3	RFU	
		x	on hand		3	RFU	

5. Ordnance Handling Equipment							
EQUIPMENT	MK-MOD/P/N	New	NEED DATE	LOCATION	CLIN	Comments	
(b)(3):10 USC § 130	multi	x	on hand	(b)(3):10 USC § 130,(b)(4)	3	RFU	
	multi	x	on hand		3	RFU	
	multi	x	on hand		3	RFU	

MISSILE DEFENSE AGENCY

Attachment 5 Service Life Extension Plan (SLEP)

HQ0276-11-C-0002

03/27/2012

Pages 187 – 253

Withheld in Full

Under Exemption (b)(4)

MISSILE DEFENSE AGENCY

SM-3 Development Schedule

HQ0276-11-C-0002

Attachment 6

Pages 255

Withheld in Full

Under Exemption (b)(4)

ATTACHMENT 7

AWARD FEE PLAN

FOR

AEGIS BMD

STANDARD MISSILE -3 PROGRAM

MAY 30 2014

DATE OF APPROVAL

RAYTHEON MISSILE SYSTEMS

APPROVED:

(b)(6)

Fcc Determining Official

(b)(6)

Program Executive, Aegis BMD

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5.0	AWARD FEE PLAN CHANGE PROCEDURE	7
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1.0 INTRODUCTION

The purpose of this Award Fee Plan is to identify the government's priorities in the performance of this contract and its intent to reward quality and mission success in missile development efforts and the delivery of high quality SM-3 missiles. This award fee plan is intended as a proactive management tool to incentivize the contractor and reward the contractor based on performance as specified in the plan. Responsibilities, policies, and methodology by which the government will evaluate the contractor performance and make award fee determinations are defined. This award fee plan implements positive fee scale, whereby the award-fee for a specified period must be earned for performance and results during that period rather than decremented for non-performance.

The contractor's technical, cost and schedule performance will be evaluated in accordance with this award fee plan, including all of the annexes, to determine the appropriate award fee earned under the contract. For each evaluation period, special emphasis shall be placed on the criteria set forth in the Fee Determining Official's (FDO) expectations letter that is issued prior to the start of the period being evaluated. In the instance of any conflicts between the FDO expectations letter and the award fee plan, the award fee plan would govern.

Any changes to the Award Fee Plan can be made unilaterally by MDA prior to the start of an Award-Fee period. After the start of a period, such changes must be bi-lateral.

2.0 ORGANIZATION

The award fee organization consists of the Fee Determining Official (FDO); an Award Fee Advisory Council (AFAC); an Award Fee Review Board (AFRB) that includes a chairperson, the contracting officer, a recorder, other functional participants; Performance Monitors; and the Award Fee Secretariat (AFS). The FDO, AFAC, AFRB members and the performance monitors are listed in annex 1.

3.0 RESPONSIBILITIES

a. Fee Determining Official (FDO). Program Director, Aegis Ballistic Missile Defense (MDA/AB) is the FDO for this contract. The FDO will: (a) approve the award fee plan and any significant changes; (b) issue appointment letters for AFRB members; (c) issue award fee expectations letters; (d) ensure the award fee decision process is thorough and fair; (e) determine the amount of fee earned; (f) provide the contractor a written award fee decision that discusses contractor performance, specifies the amount of fee earned, and reiterates the areas of emphasis included in the expectations letter; (g) direct the contracting officer to make changes to the award fee plan, as necessary;

b. Award Fee Advisory Council (AFAC). The AFAC will (a) review and coordinate award fee packages within three business days of receipt. No response will constitute concurrence (b) consult with FDO on matters pertaining to the consistent application of award fees across the BMDS; (c) review award fee plan revisions and modifications; (e) review award

fee statistics annually to determine if MDA's use of award fee contracts has motivated contractors toward excellent performance.

c. Award Fee Review Board (AFRB). AFRB members review performance monitors' evaluation of the contractor's performance, consider all information from pertinent sources, prepare interim performance reports, and arrive at an earned award fee recommendation to be presented to the AFAC and FDO. The AFRB will: (a) Evaluate contractor performance; (b) recommend a mid-term/interim award-fee assessment to the AFRB Chair; (c) Convene no later than 14 days after the close of the award fee period; (d) Recommend an award fee amount to the AFRB Chair; (e) Compare CPARS assessment for the evaluation period with the award fee recommendation and present the assessment at the FDO briefing; (f) Recommend the criteria, percentages, and emphasis areas for the next award fee period.

d. Program Director/Manager. The Program Director/Manager responsible for requirements execution will: (a) chair the AFRB, unless delegated FDO responsibilities; (b) present fee recommendations to the FDO; (c) Brief final expectations letters and updates to award-fee plans to the FDO and MDA/DA at least 30 business days before the start of the upcoming award-fee period; (d) Approve and issue a mid-term/interim award-fee assessment letter and/or briefing to the contractor and provide a copy to the FDO and AFS. Specifically, notify the FDO on interim award-fee assessments of 75% or below; (e) Ensure the CPARS assessment and award-fee evaluation are in alignment and that a draft CPARS assessment is made available for the AFRB and FDO briefings within two weeks after the end of the award-fee evaluation period; (f) Appoint performance monitors; (g) Recommend AFRB members (h) Support the AFS in arranging briefings for expectations letters, AFRBs, and fee determination presentations (i) Provide the AFS a complete staff summary package in support of award-fee briefings (expectations letter, AFRB briefing, and FDO determination); (j) Attend expectations letter briefing, AFRB, and FDO briefing; (k) Provide expectations letters and updates to award-fee plans to MDA/DA at least 65 days before the start of the upcoming award-fee period; (l) Ensure this Directive is implemented into existing award-fee contracts

e. Contracting Officer (CO). The CO is responsible for all contractual actions required by this plan. This includes: (a) implementing all changes to the award fee plan; (b) issuing contract modifications obligating any award fee authorized by the FDO; and (c) maintaining award fee documentation as part of the official contract file. The CO is the liaison between contractor and government personnel.

f. Legal Counsel. MDA/GC legal counsel will (a) Advise the AFRB on legal issues relating to AFRB recommendations; (b) Advise the FDO on the legal sufficiency of award-fee determinations; (c) Review award-fee contract clauses for legal sufficiency and advise MDA/DAC accordingly; (d) Participate in the AFAC

g. Performance Monitors. Performance monitors will: (a) conduct all assessments according to contract requirements and the award fee plan so that evaluations are fair and accurate; (b) maintain written records of the contractor's performance in their assigned evaluation areas; (c) prepare interim and end-of-period evaluations addressing the contractor's strengths and weaknesses; (d) brief the AFRB on their specific evaluation area(s); (e)

recommend changes to the award fee plan, as needed; (f) understand and measure the contractor's performance in accordance with the contractor's corporate best practices; and (g) take refresher training annually.

h. Defense Contract Management Agency (DCMA). DCMA will (a) Conduct an independent assessment of the contractor performance in accordance with the award-fee plan criteria and expectations letter, and provide results to the AFRB; (b) Participate as a voting member of AFRBs for those programs covered by the BMDS overarching MOA between MDA and DCMA.

i. Award Fee Secretariat (AFS). The AFS will: (a) facilitate timely award fee determinations by scheduling all award fee activities to include expectations letter briefings, AFRBs, and FDO briefings The briefing schedule will be maintained on the MDA Portal; (b) Act as the focal point for coordination of all award-fee determination and findings, expectations letters, award-fee plan updates, and AFRB recommendations to the FDO for approval (c) Attend expectations letter and FDO briefings; and participate on the AFRBs, ensuring continuity and compliance with award-fee policy (e) Review draft award-fee plans prior to Request for Proposal release; (f) Establish centralized management of the award-fee process to include the following:

- (i) Maintain the Agency's award-fees policies, practices, and procedures.
- (ii) Collect and maintain pertinent award-fee metrics and trend data.
- (iii) Retain all award-fee activity documentation.

Prepare a semi-annual report on award and incentive fee performance to the DUSD (AT&I); and provide award-fee training when requested.

4.0 AWARD FEE PROCESS

a. Available Award Fee Amount. The award fee earned will be based on the contractor's performance during each evaluation period.

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, the same criteria listed for the preceding period will be used in the subsequent award fee evaluation period. Any changes to evaluation criteria will be made by amending the expectations letter and notifying the contractor.

c. Mid-Term/Interim Evaluation Process. The AFRB recorder notifies each AFRB member and performance monitor **30** days before the approximate midpoint of the evaluation period. Performance monitors submit their evaluation reports to the AFRB recorder **15** days after this notification. The AFRB determines the midterm/interim evaluation results and provides them to the contractor, in writing, citing major strengths and weaknesses that could affect the rating. For each weakness cited, the contractor shall have the opportunity to respond in a timely manner, setting forth plans for increasing effectiveness in the areas of weakness or

explain why it was not feasible to do so. This midterm/interim evaluation will not result in a determination of award fee but will be an input into final determination for the evaluation period. The AFRB may also issue letters at any other time when it is deemed necessary to highlight areas of government concern. The government expects to conduct mid-term/interim evaluations during all performance periods.

d. Expectations Letter. The FDO will determine the areas of emphasis for each award fee period. The CO will issue to the contractor an expectations letter based on the FDO determination to identify the areas of emphasis to be evaluated for each award fee period, their relative importance, and examples of the measures of quality that will be considered, and identify any specific key event performance milestones to be evaluated during the period. The letter is to be staffed sixty (60) days prior to the start of the fee period. Key event performance milestones will be grouped and weighted according to which portion of the program they apply (e.g., Block IA, Block IB, etc.). The letter will identify any contingent fees (Contingent Fees meaning the government will identify any criteria that will be contingent on future efforts/actions. These criteria will be assessed during that particular period. But if there is a follow-on test that this builds upon and that test isn't successful, those fees may be rescinded).. The FDO retains the right prior to the start of each award fee period to change the percentages of fee tied to each event and element as the program evolves and achieves progress or priorities change. An approximate award fee amount and the evaluation elements will be clearly defined and set forth in the letter. However, evaluation elements may be revised, rescheduled, or omitted to reflect programmatic changes and will be reflected in an amended expectations letter. The signed expectations letter shall be incorporated by reference to the award fee plan once provided to the contractor.

The contractor may participate in the development of these letters by recommending the performance areas, evaluation criteria and metrics for each award fee area or key event performance. However, in the event that the parties are unable to agree on criteria or events, it shall be the unilateral right of the government to establish the criteria for each evaluation period.

e. End-of-Period Evaluations. The AFRB recorder notifies each AFRB member and performance monitor 30 days before the end of the evaluation period. Performance monitors submit their evaluation report to the AFRB recorder five (5) days after the end of the evaluation period. The AFRB prepares its evaluations report and recommendation of earned award fee. The AFRB briefs the evaluation report and recommendation to the FDO. At this time, the AFRB may also recommend any significant changes to the award fee plan for FDO approval. The FDO determines the overall grade and earned award fee amount for the evaluation period within 30 days after each evaluation period. The FDO letter informs the contractor of the earned award fee amount. The CO issues a contract modification within three (3) days after the FDO's decision is made authorizing payment of the earned-award fee amount.

5.0 AWARD FEE PLAN CHANGE PROCEDURE

All significant changes are approved by the FDO and the AFRB Chairperson approves other changes. Examples of significant changes include changing evaluation criteria, adjusting weights to redirect contractor's emphasis to areas needing improvement, and revising distribution of award fee dollars. The contractor may recommend changes to the CO no later than 30 days prior to the beginning of the new evaluation period. After approval, the CO shall notify the contractor in writing of any change(s). Unilateral changes may be made to the award fee plan if the contractor is provided written notification by the CO before the start of the upcoming evaluation period. Changes effecting the current evaluation period must be mutually agreed to by both parties.

6.0 CONTRACT TERMINATION

In the event the contract is terminated in whole, or in part, for convenience of the government, the contractor will be entitled to retain all award fee previously determined to be earned by the FDO prior to the effective date of such termination. Invoices in process for award fee earned, but not paid as of the effective date of termination, will be paid by the government as if the termination for convenience had not occurred. If the government elects to terminate for convenience after the start of an award fee period, the award fee deemed earned and to be paid for this period will be determined by the FDO. The remaining award fee dollars for all periods subsequent to this termination, including key event performance and/or mission success payments, shall not be considered available or earned, and therefore, shall not be paid.

6 Annexes

1. Award Fee Organization
2. Contract Performance Element
3. Key Performance Event/Mission Success Element
4. RESERVED FOR FUTURE USE

5. Grade Definitions
6. RESERVED FOR FUTURE USE
7. Raytheon Command Media Best Practices

ANNEX 1 - AWARD FEE ORGANIZATION**Members:**

Fee Determining Official: Program Executive, Aegis BMD	MDA/ AB
Award Fee Review Board Chairperson: Aegis Guided Missile Program Manager	MDA/AG

AFAC Members:

Deputy Director	MDA/DD
Executive Director	MDA/DX
Director for Acquisition	MDA/DA
Director for Engineering	MDA/DE
Director for Agency Operations	MDA/DO
Director for Test	MDA/DT
General Counsel	MDA/GC

AFRB Members:

Aegis BMD Technical Director	MDA/AB
Aegis BMD Director for Acquisition & Contracts	MDA/AB/DA
Aegis BMD Deputy Director for Contracting	MDA/AB/DAC
Aegis BMD SM-3 Block IB Project Officer	MDA/AB/AGP
Aegis BMD Director for Program Operations	MDA/AB/DO
Aegis BMD Test and Evaluation Director	MDA/AB
Aegis BMD Weapon System Program Manager	MDA/AB/AW
Aegis BMD Aegis Ashore Program Manager	MDA/AB/AA
Aegis BMD SM-3 Block IIA Project Officer	MDA/AB/AGD
Aegis BMD International Manager (As Required)	MDA/AB/DI
Contracting Officer	MDA/AB/DAC
Quality, Safety & Mission Assurance Representative	MDA/QS
Aegis BMD Senior Cost Estimator	MDA/DOC
General Counsel Associate (Advisory) (Non-Voting)	MDA/GC
Contracting Officer's Representative (Recorder) (Non-Voting)	MDA/AB/DAC
Contracting Officer Technical Representative (Non-Voting)	MDA/AB/AG
Award-Fee Secretariat (Non-Voting)	MDA/DA
PEO IWS (Standard Missile Representative)(As Required)	
Commanding Officer, SM-3 TECHREP	
Commander, DCMA Tucson (or Designated Representative)	
Raytheon Standard Missile-3, Vice President, Naval Weapons Systems (Non-Voting Members)	
Raytheon Standard Missile-3 Program Director (Non-Voting Members)	

**Performance Monitors:
Area of Evaluation**

**Performance
Monitor(s)**

Program Management
Subcontract Management
Cost and Schedule Management
Quality Management
Key Performance Management
Mission Success Management

MDA/AB
MDA/AB
MDA/AB
MDA/QS
MDA/AB
MDA/AB

ANNEX 2 – CONTRACT PERFORMANCE ELEMENT

Evaluation of the contractor’s performance under the Contract Performance Element shall be determined in accordance with the following:

ELEMENT	WEIGHTING
Contract Performance	(b)(4)
Area A: Program and Subcontract Management	
Area B: Cost Management	
Area C: Schedule	
Area D: Communication of Cost and Schedule Impacts	
Area E: Small Business Utilization	

Contract Performance.

Area A: Program and Subcontract Management. The contractor’s performance will be evaluated in terms of its effectiveness in performing program management. This area evaluates program management effectiveness in administering the contract requirements, coordinating and managing the efforts performed by all of the subcontractors, and applying day to day management attention in working program management issues and action items. The contractor’s performance will also be evaluated in terms of its compliance with Command Media

(b)(4)
 (b)(4) Aspects of program and subcontract management performance that may be considered are:

- Implementing program plans that effectively demonstrate a thorough system engineering methodology.
- Establishing clear and effective team responsibilities and interrelations.
- Maintaining the appropriate labor mix and available spares.
- Establishing methodologies for identifying cost, schedule, performance and risk management issues and tradeoffs.
- Establishment and proper maintenance of viable contract performance measurement baseline as demonstrated through Integrated Baseline Reviews (IBRs) and baseline maintenance reviews.
- Execute integrated program plans, schedule, and activities with effective flow-down throughout the organization including suppliers.
- Earned value management is effectively integrated into the program management process.
- Major subcontractors are effectively integrated into the prime contractor management system.

- Earned value data is accurate, timely, and consistent. Subcontractor management controls are documented and in place.
- EVMS is consistently compliant with ANSI/EIA-748 Guidelines.
- Variance analysis is responsive, accurate, and complete per contract requirements.
- Effective baseline creation and change discipline are exercised.
- Surveillance confirms Contractor's use of EVM processes and validates data being reported to MDA.

Area B: Cost Management. The contractor's performance will be evaluated in terms of its timely and accurate cost data reporting; traceability of the data within and between reports, comprehensive basis of estimates for work breakdown structure elements; proactive notification to the program office of projected cost overruns and underruns with documented rationale, and cost performance as measured against cost values found in Section B. The contractor will be evaluated on containing cumulative cost growth while maintaining or improving the program cumulative Cost Variance (CV) without impacting program execution. The contractor should consistently anticipate possible sources of cost growth and implement solutions to maintain cost at current or below program baseline. The contractor shall address in written narratives the current and anticipated future impacts of cost performance. Additionally, the contractor will establish and maintain Earned Value Management System (EVMS) that produces auditable, accurate, and timely data reflecting planned, actual, and earned values, and estimates at completion. For Technical Instructions (TIs) issued, the contractor must report (for all TIs) a description of the work and a representative percentage of total work effort completed during the evaluation period (compared to what was planned for the period), a summary comparing the actual incurred costs to the Total Cost Level (TCL) (including a composite hourly rate at the TCL) to the corresponding total cost and composite hourly rate utilized in the TI estimate provided by the contractor. The contractor's performance will also be evaluated in terms of its compliance with Command Media Best Practices (b)(4) and

- Cost estimates and proposals are complete and adequate.
- Cost reduction and avoidance are effectively demonstrated.
- Cost issues are communicated to the Government in a timely manner with clear descriptions and mitigations.
- Funding, cost and schedule forecasts are accurate and current.

Area C: Schedule. Schedule will be used to evaluate the contractor's performance. For TIs issued, schedule objectives shall be identified and specified in each TI prior to its issuance and/or modification. The contractor shall propose schedule objectives to be achieved during the TI's period of performance. The government will provide concurrence to the contractor, or provide alternative objectives, no later than 10 days before the start of the period. Unless otherwise specified in the TI, these objectives shall apply for the duration of TI performance, which may span more than one evaluation period. The government will review each of the TI's schedule objectives and evaluate the contractor's performance in timely completion of specified objectives. The contractor's performance will also be evaluated in terms of its compliance with applicable corporate best practices listed in Annex 7 and Schedule information is timely and accurate; Schedule Risk Analysis information is used to improve the IMS.

Area D. This area assesses the contractor performance in effective communication of cost and schedule impacts related to cost management identified in Area B to the Government.

Area E. Small Business Utilization. Measures the contractor's success in increasing small business participation in contract performance through targeted outreach and specific initiatives. Such initiatives may include transitioning appropriate technologies from MDA Small Business Innovation Research/Small Business Technology Transfer programs, establishing mentor protégé agreements, facilitating small business certifications and achievements (e.g., International Organization for Standardization and Capability Maturity Model Integration), and other efforts designed to improve and grow the small business industrial base supporting MDA and the BMDS. Benefits may include increased competition, improved performance and quality, and reduced costs under the contract or in future acquisitions. Any initiatives that improve BMDS capabilities through the utilization of small businesses should be considered. The contractor's input shall provide the Government sufficient details of its small business utilization strategy and results during the rating period for the Government to assess actual performance against planned performance, considering the specific metrics established in the contract.

ANNEX 3 – KEY EVENT PERFORMANCE (KPE) ELEMENTS/MISSION SUCCESS ELEMENTS

Evaluation of the contractor's performance under the Key Event Performance and Mission Success element (KPE/MSE) shall be determined in accordance with the following:

ELEMENT	WEIGHTING
Key Event Performance/Mission Success	(b)(4)

The contractor will be evaluated on timely and effective completion of key event performance milestones scheduled during the specified award fee period of performance. The key event performance milestones will be identified in the technical instruction and in the expectations letter. Key Event Performance milestones may include areas of overall technical performance or specific Fee Bearing Events (FBEs) necessary to assess the contractor's performance toward the ultimate goals of the contract.

Fee Bearing Events will focus on the key events necessary to demonstrate that the contractor's performance is leading to delivery of the required capability. Examples of FBE's include, but are not limited to flight mission related objectives, critical tests and other events or milestones as may be determined by Director, Aegis BMD.

The contractor will be evaluated on timely and effective performance of events critical to successful BMDS performance. Overall program execution and the successful delivery of BMDS capabilities are the focus of these events. Mission success elements will include on time delivery of engineering products to support design review milestones and ground tests, on time delivery of flight test rounds, flight mission success (intercept) and a performance assessment of missile related flight mission objectives. These events may impact multiple BMDS elements with criteria oriented towards the successful integration of the Elements into the BMDS. Therefore, collaboration with other elements is critical to success and, if necessary, can be evaluated.

ANNEX 4 – RESERVED FOR FUTURE USE

ANNEX 5 – GRADE DEFINITIONS

Evaluation of the contractor's performance shall be determined using the following criteria:

Rating	Award Fee Earned	Definition
Unsatisfactory	0%	Contractor has failed to meet overall cost, schedule and technical performance requirements of the contract as defined and measured against the criteria in the award-fee-plan and the expectations letter for the award fee evaluation period.
Satisfactory	Up to 50%	Contractor has met overall cost, schedule and technical performance requirements of the contract as defined and measured against the criteria in the award-fee-plan and the expectations letter for the award fee evaluation period.
Good	51% - 75%	Contractor has exceeded some of the significant award-fee criteria and has met overall cost, schedule and technical performance requirements of the contract as defined and measured against the criteria in the award-fee-plan and the expectations letter for the award fee evaluation period.
Very Good	76% - 90%	Contractor has exceeded many of the significant award-fee criteria and has met overall cost, schedule and technical performance requirements of the contract as defined and measured against the criteria in the award-fee-plan and the expectations letter for the award fee evaluation period. There are no process escapes from appropriate corporate best practices.
Excellent	91% - 100%	Contractor has exceeded all award-fee criteria and has met cost, schedule and technical performance requirements of the contract as defined and measured against the criteria in the award-fee-plan and the expectations letter for the award fee evaluation period. There are no process escapes from appropriate corporate best practices. Contractor effectively anticipates and resolves program execution issues.

ANNEX 6 – RESERVED FOR FUTURE USE

ANNEX 7 – COMMAND MEDIA BEST PRACTICES

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ENVIRONMENTAL HEALTH & SAFETY

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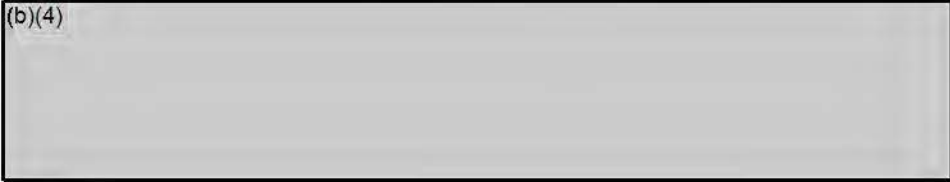
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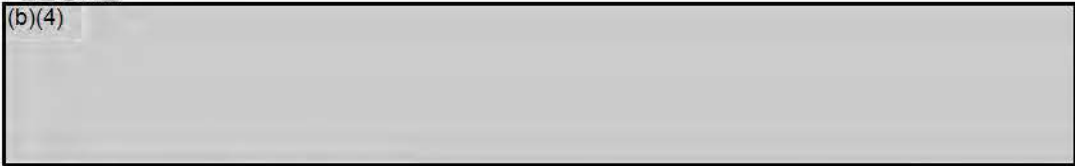
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SAFETY & SECURITY

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MISSILE DEFENSE AGENCY

SM-3 Common Work Breakdown Structure

HQ0276-11-C-0002

Attachment 8

SM 3WSH Development Structure

		WBS Dictionary
1	SM-3 Missile	RCU110P LHM - This WBS element represents the total effort for the Standard Missile 3 (SM-3) Missiles. It includes design, development, manufacturing, deployment and operations and test of the BUA, BUA/B, and BUA/B missile systems.
1.1	Block 3WSH Guided Missile	RCU110P LHM - This WBS element represents the total effort for the Standard Missile 3 (SM-3) Block 3 Missiles. It includes design, development, manufacturing, deployment and operations, a support of the BUA/B system.
1.1.1	Development	RCU110P LHM - This WBS element represents the total development for the Standard Missile 3 (SM-3) Block 3 Missiles. It includes engineering, design, development, test, and modeling a full simulation effort required to deliver a producible, mission capable guided missile.
1.1.1.1	Hardware	RCU110P LHM - This WBS element represents the hardware subsystem development for the Standard Missile 3 (SM-3) Block 3 Missile. It includes engineering, design, development, test, and modeling and simulation effort required to deliver producible, mission capable hardware for the guided missile system.
1.1.1.1.1	First Stage	This WBS element covers the acquisition of the MR-72 Booster with the Thrust Vector Assembly (TVA) and conduct of FCV tests for flight and ground test missiles. It also includes engineers' analysis to characterize the MR-72 contribution to system performance and integrate the MR-72 with the missile system.
1.1.1.1.2	Second Stage	RCU110P LHM - This is a summary WBS element that covers the procurement of Steering Control Section (SCS), Dual Thrust Rocket Motor (DTRM) and Staging Assembly (SA) to sufficient quantities to support the required BLA (GMRs for flight and ground test). It also includes engineering and analysis to characterize the 2nd Stage contribution to system performance and integrate the 2nd stage with the missile system.
1.1.1.1.2.1	Steering Control Section (SCS)	This WBS element covers the procurement of sufficient Steering Control Sections to deliver the required quantity of Guided Missile Round (GMR) for flight and ground test. It also includes engineering and analysis to characterize the Steering Control Section contribution to system performance and integrate the Steering Control Section with the missile system.
1.1.1.1.2.2	Dual Thrust Rocket Motor (DTRM)	This WBS element covers the procurement or acquisition of sufficient ME104 Dual Thrust Rocket Motor (DTRM) second stages to deliver the required quantity of Guided Missile Round (GMR) for flight and ground test. It also includes engineering and analysis to characterize the DTRM contribution to system performance and integrate the Steering Control Section with the missile system.
1.1.1.1.2.3	Staging Assembly	This WBS element covers the procurement or acquisition of sufficient Staging Assemblies to deliver the required quantity of GMRs for flight and ground test. It also includes engineering and analysis to characterize the Staging Assembly contribution to system performance and integrate the Staging Assembly with the missile system.
1.1.1.1.3	Third Stage	RCU110P LHM - This is a summary WBS element that covers the procurement of Steering Control Section (SCS), Dual Thrust Rocket Motor (DTRM) and Staging Assembly (SA) to sufficient quantities to support the required BLA (GMRs for flight and ground test). It also includes engineering and analysis to characterize the 3rd Stage contribution to system performance and integrate the 3rd stage with the missile system.
1.1.1.1.3.1	Guidance Section	RCU110P LHM - This WBS element covers the development and acquisition of sufficient Guidance Sections to deliver the required quantity of GMRs for flight and ground test. It also includes engineering and analysis to characterize the Guidance Section contribution to system performance and integrate the 2nd stage with the missile system.
1.1.1.1.3.1.1	Plate 3A Communications Transceiver (incl. Laker & Mat)	This WBS element covers the development and acquisition of sufficient Plate 3A Communications Transceivers to deliver the required quantity of GMRs for flight and ground test. It also includes engineering and analysis to characterize the Plate 3A Communications Transceivers contribution to system performance and integrate with the missile system.
1.1.1.1.3.1.2	Guidance Section Design, I&BT	This WBS element covers the development, planning, acquisition of parts and test equipment, development of assembly and test procedures, and documentation of manufacturing process required to deliver the required quantity of GMRs for flight and ground test and to support transition to production.
1.1.1.1.3.1.3	Circuit Card Assemblies (CCAs)	This WBS element covers the design and development of Circuit Card Assemblies. It also includes engineering and analysis to characterize the CCA contribution to system performance and integrate with the missile system.
1.1.1.1.3.1.4	Avionics Suite	RCU110P LHM - This WBS element covers the development and acquisition of sufficient Avionics Suites to deliver the required quantity of GMRs for flight and ground test. It also includes engineering and analysis to characterize the Avionics Suite contribution to system performance and integrate with the missile system.
1.1.1.1.3.1.4.1	Global Positioning System/Inertial Navigation System (GINS/INU) - NOT Only	This WBS element covers the development and acquisition of sufficient GINS/INU Navigation Systems to deliver the required quantity of GMRs for flight and ground test. It also includes engineering and analysis to characterize the Navigation System contribution to system performance and integrate with the missile system.
1.1.1.1.3.1.4.2	Circuit Card Assemblies (CCAs)	This WBS element covers the acquisition of sufficient CCAs to deliver the required quantity of GMRs for flight and ground test.
1.1.1.1.3.1.4.3	IBU	This WBS element covers the development and acquisition of sufficient IBUs to deliver the required quantity of GMRs for flight and ground test. It also includes engineering and analysis to characterize the IBU contribution to system performance and integrate with the missile system.
1.1.1.1.3.1.4.4	Other Avionics HW (Mat/I O&M)	Need definition of what is in here.
1.1.1.1.3.1.4.5	Avionics Suite I&BT	Need definition of what is in here.
1.1.1.1.3.1.5	Harness & Wiring (Mat) Only	This WBS element covers the development and acquisition of sufficient Harness and Wiring Kits to deliver the required quantity of GMRs for flight and ground test.
1.1.1.1.3.1.6	Other Guidance Section Hardware (Material Only)	Need definition of what is in here.
1.1.1.1.3.2	Third Stage Rocket Motor (TSRM)	RCU110P LHM - This WBS element covers the development and acquisition of sufficient TSRMs to deliver the required quantity of GMRs for flight and ground test. It also includes engineering and analysis to characterize the TSRM contribution to system performance and integrate with the missile system.
1.1.1.1.3.2.1	TSRM Attitude Control System (ACS)	This WBS element covers the development and acquisition of sufficient ACSs to deliver the required quantity of GMRs for flight and ground test. It also includes engineering and analysis to characterize the ACS contribution to system performance and integrate with the missile system.
1.1.1.1.3.2.2	Thrust Vector Actuation (TVA) System	This WBS element covers the development and acquisition of sufficient TVAs to deliver the required quantity of GMRs for flight and ground test. It also includes engineering and analysis to characterize the TVA contribution to system performance and integrate with the missile system.
1.1.1.1.3.2.3	TVA Hardware	Need definition of what is in here.
1.1.1.1.3.2.3.1	TVA I&BT	Need definition of what is in here.
1.1.1.1.3.2.4	TSRM O&M (incl. design)	Need definition of what is in here.
1.1.1.1.3.2.4.1	TSRM Integration & Test	This WBS element covers the integration and assembly of the required quantity of GMRs for flight and ground test.
1.1.1.1.3.2.5	TSRM Special Test Equipment (STE)/Tooling	This WBS element covers the acquisition of parts and test equipment required to deliver the required quantity of GMRs for flight and ground test and to support transition to production.
1.1.1.1.3.2.6	TSRM Engineering	This WBS element covers the development, planning, development of assembly and test procedures, and documentation of manufacturing processes required to deliver the required quantity of GMRs for flight and ground test and to support transition to production.
1.1.1.1.3.2.7	TSRM Program Management	This WBS element covers the subcontractor program management and business operations for the design, development and test of the TSRM.

SM-1 Work Breakdown Structure

1.1.1.1.4	Kinetic Warhead (KW)	ROCLIP (RW) This is a summary WBS element that covers the development and acquisition of Kinetic Warhead in sufficient quantity to support the required BLEA GMBs for flight and ground test. It also includes engineering and analysis to characterize the Kinetic Warhead contribution to system performance and integrate with the missile system.
1.1.1.1.4.1	AW-40	ROCLIP (RW) This is a summary WBS element that covers the development and acquisition of Kinetic Warhead in sufficient quantity to support the required BLEA GMBs for flight and ground test. It also includes engineering and analysis to characterize the Kinetic Warhead contribution to system performance and integrate with the missile system. The CW-40 includes a Guidance Unit and Sensor.
1.1.1.1.4.1.1	Guidance Unit (GU)	ROCLIP (RW) This is a summary WBS element that covers the development and acquisition of Guidance Units in sufficient quantity to support the required BLEA GMBs for flight and ground test. It also includes engineering and analysis to characterize the Guidance Unit contribution to system performance and integrate with the missile system. The Guidance Unit includes a Guidance Assembly and Integration and Test.
1.1.1.1.4.1.1.1	Sensor	ROCLIP (RW) This is a summary WBS element that covers the development and acquisition of Sensors in sufficient quantity to support the required BLEA GMBs for flight and ground test. It also includes engineering and analysis to characterize the Sensor contribution to system performance and integrate with the missile system. The Sensor includes a Sensor, Signal Processor and Integration and Test.
1.1.1.1.4.1.1.1.1	Sensor	ROCLIP (RW) This is a summary WBS element that covers the development and acquisition of Sensors in sufficient quantity to support the required BLEA GMBs for flight and ground test. It also includes engineering and analysis to characterize the Sensor contribution to system performance and integrate with the missile system. The Sensor includes a Telescope, Integrated D-Assembly, and Integration and Test.
1.1.1.1.4.1.1.1.2	Telescope	ROCLIP (RW) This is a summary WBS element that covers the development and acquisition of Telescopes in sufficient quantity to support the required BLEA GMBs for flight and ground test. It also includes engineering and analysis to characterize the Telescope contribution to system performance and integrate with the missile system.
1.1.1.1.4.1.1.1.3	ICM RVs	ROCLIP (RW) This is a summary WBS element that covers the development and acquisition of ICM RVs in sufficient quantity to support the required BLEA GMBs for flight and ground test. It also includes engineering and analysis to characterize the ICM RVs contribution to system performance and integrate with the missile system. The ICM RVs includes a focal plane array, one assembly, and integration and test.
1.1.1.1.4.1.1.1.3.1	Focal Plane Array (FPA)	
1.1.1.1.4.1.1.1.3.2	Other ICM Hardware	
1.1.1.1.4.1.1.2	Signal Processor (SP)	This WBS element covers the development and acquisition of sufficient Signal Processors to deliver the required quantity of GMBs for flight and ground test. It also includes engineering and analysis to characterize the Signal Processor contribution to system performance and integrate with the missile system.
1.1.1.1.4.1.1.3	Other Sensor Hardware (Mat'l Only)	This WBS element covers the development, planning, acquisition of parts and test equipment, development of assembly and test procedures, and documentation of manufacturing processes required to deliver the required quantity of GMBs for flight and ground test and to support transition to production.
1.1.1.1.4.1.1.4	Sensor Design, I&T (Labor Only)	ROCLIP (RW) This is a summary WBS element that covers the development and acquisition of Guidance Assemblies in sufficient quantity to support the required BLEA GMBs for flight and ground test. It also includes engineering and analysis to characterize the Guidance Assembly contribution to system performance and integrate with the missile system. The Guidance Assembly includes a Circuit Card Assembly, Guidance Value Driver, Power Converter Unit, Inertial Measurement Unit, other interface hardware, and integration and test.
1.1.1.1.4.1.2	Guidance Assy	This WBS element covers the development and acquisition of sufficient CCA to deliver the required quantity of GMBs for flight and ground test. It also includes engineering and analysis to characterize the CCA contribution to system performance and integrate with the missile system.
1.1.1.1.4.1.2.1	Guidance & Control Processor CCA	This WBS element covers the development and acquisition of sufficient OVIs to deliver the required quantity of GMBs for flight and ground test. It also includes engineering and analysis to characterize the OVI contribution to system performance and integrate with the missile system.
1.1.1.1.4.1.2.2	Guidance Value Driver (GVD) CCA	This WBS element covers the development and acquisition of sufficient PCUs to deliver the required quantity of GMBs for flight and ground test. It also includes engineering and analysis to characterize the PCU contribution to system performance and integrate with the missile system.
1.1.1.1.4.1.2.3	Power Converter Unit (PCU) CCA	This WBS element covers the development, planning, acquisition of test equipment, development of assembly and test procedures, and documentation of manufacturing processes required to deliver the required quantity of GMBs for flight and ground test and to support transition to production.
1.1.1.1.4.1.2.4	IMU (FW)	The WBS covers the acquisition of parts and materials required to assemble and integrate the Guidance Unit.
1.1.1.1.4.1.2.5	Other Guidance Assy Hardware (Mat'l Only)	This WBS element covers the development, planning, acquisition of test equipment, development of assembly and test procedures, and documentation of manufacturing processes required to deliver the required quantity of GMBs for flight and ground test and to support transition to production.
1.1.1.1.4.1.2.6	Guidance Assy Design, I&T (Labor Only)	The WBS covers the acquisition of parts and materials required to assemble and integrate the Guidance Unit.
1.1.1.1.4.1.3	Other GU Hardware (Mat'l Only)	This WBS element covers the development, planning, acquisition of test equipment, development of assembly and test procedures, and documentation of manufacturing processes required to deliver the required quantity of GMBs for flight and ground test and to support transition to production.
1.1.1.1.4.1.3.1	Other GU Hardware (Mat'l Only)	The WBS covers the acquisition of parts and materials required to assemble and integrate the Guidance Unit.
1.1.1.1.4.1.3.2	Guidance Assy Design, I&T (Labor Only)	This WBS element covers the development, planning, acquisition of test equipment, development of assembly and test procedures, and documentation of manufacturing processes required to deliver the required quantity of GMBs for flight and ground test and to support transition to production.
1.1.1.1.4.1.3.3	Other ICM Hardware (Mat'l Only)	The WBS covers the acquisition of parts and materials required to assemble and integrate the ICM RV.
1.1.1.1.4.1.4	KW-40 Design, I&T (Labor Only)	This WBS element covers the development, planning, acquisition of test equipment, development of assembly and test procedures, and documentation of manufacturing processes required to deliver the required quantity of GMBs for flight and ground test and to support transition to production.
1.1.1.1.4.2	Solid Rocket Attitude Control System (SRACS)	ROCLIP (RW) This is a summary WBS element that covers the development and acquisition of SRACS in sufficient quantity to support the required BLEA GMBs for flight and ground test. It also includes engineering and analysis to characterize the SRACS contribution to system performance and integrate with the missile system. The SRACS includes an MTA, ACA, Gas Generation Circuit Card Assembly, Guidance Value Driver, Power Converter Unit, Inertial Measurement Unit, other interface hardware, and integration and test.
1.1.1.1.4.2.1	MTA	ROCLIP (RW) This is a summary WBS element that covers the development and acquisition of MTA in sufficient quantity to support the required BLEA GMBs for flight and ground test. It also includes engineering and analysis to characterize the MTA contribution to system performance and integrate with the missile system. The MTA includes valves, nozzle/propellant parts, and materials, and integration and test.
1.1.1.1.4.2.1.1	Valves	
1.1.1.1.4.2.1.2	Other MTA Hardware (Mat'l Only)	
1.1.1.1.4.2.1.3	MTA Design, I&T (Labor Only)	

SW Work Breakdown Structure

1.1.1.1.2.2	ACA	ROLLUP LINE - This is a summary WBS element that covers the development and acquisition of Attitude Control Assemblies in sufficient quantity to support the required BLEED/OMS for flight and ground test. It also includes engineering and analysis to characterize the ACA contribution to system performance and integrate with the missile system. The ACA includes valves, miscellaneous parts and materials, and integration and test.
1.1.1.1.2.2.1	Types	
1.1.1.1.2.2.1.1	Other ACA Hardware (Mat'l Only)	
1.1.1.1.2.2.1.2	ACA Design, Mfg (Labor Only)	
1.1.1.1.2.2.2	SOACS Other Hardware	ROLLUP LINE - This is a summary WBS element that covers the development and acquisition of SOACS other hardware in sufficient quantity to support the required BLEED/OMS for flight and ground test. It also includes engineering and analysis to characterize the Gas Generator contribution to system performance and integrate with the missile system. The SOACS Other Hardware includes the generator, miscellaneous parts and materials, and integration and test.
1.1.1.1.2.2.2.1	Gas Controller	
1.1.1.1.2.2.2.2	Other Gas Valve (Mat'l Only)	
1.1.1.1.2.2.2.3	SOACS Other Hardware Design, Mfg (Labor Only)	
1.1.1.1.2.2.4	SOACS Integration & Test	This WBS element covers the development, planning, acquisition of parts, development of assembly and test procedures, and documentation of manufacturing processes required to deliver required quantity of OMs for flight and ground test and to support transition to production.
1.1.1.1.2.2.5	SOACS Special Test Equipment (SSE) Testing	This WBS element covers the acquisition of test equipment required to deliver the required quantity of OMs for flight and ground test and to support transition to production.
1.1.1.1.2.2.6	SOACS Engineering Studies	This WBS element includes specialty engineering studies to determine performance characteristics and design configuration options for the SOACS.
1.1.1.1.2.2.7	SOACS Engineering	The WBS element includes SOACS design and systems engineering performed by the SOACS subcontractor.
1.1.1.1.2.2.8	SOACS Program Management	This WBS element includes program management, configuration control, and business operations performed by the SOACS subcontractor.
1.1.1.1.2.3	Other FW Hardware (Mat'l Only)	This WBS covers the acquisition of parts and materials required to assemble and integrate the FW.
1.1.1.1.2.4	FW Design, Mfg (Labor Only)	This WBS element covers the development, planning, acquisition of test equipment, development of assembly and test procedures, and documentation of manufacturing processes required to deliver the required quantity of OMs for flight and ground test and to support transition to production.
1.1.1.1.5	Nonwms	
1.1.1.1.6	Guided Missile Assembly Kit	
1.1.1.1.7	Canister	
1.1.1.1.8	Guided Missile Round Integration	
1.1.1.1.8.1	Round Inert Self-off (Upper Stage)	
1.1.1.1.8.2	Canister Operations	
1.1.1.1.8.3	FAO Operations	
1.1.1.1.9	Hardware Analysis	
1.1.1.1.9.1	FMA System Engineering (SE)	
1.1.1.1.9.2	Special Test Equipment (SSE)	
1.1.1.1.9.2.1	Seeker ASE	
1.1.1.1.9.2.2	Missile ASE	
1.1.1.1.9.3	Design Verification Tests (DVTs)	
1.1.1.1.9.4	Flight Test Round Kits	
1.1.1.1.9.5	Program Technical Team	
1.1.1.1.1	Software	
1.1.1.1.1.1	Guidance, Navigation & Control	
1.1.1.1.1.2	Stage 1 Software	
1.1.1.1.1.3	Stage 2 Software	
1.1.1.1.1.4	Signal Processor Software	
1.1.1.1.1.5	Software System Integration	

SW-1 Work Breakdown Structure

1.1.1.0	Test & Evaluation	
1.1.1.0.1	Test and Evaluation Program Management	
1.1.1.0.2	Test and Evaluation Systems Engineering & Integration	
1.1.1.0.3	Test Infrastructure	
1.1.1.0.3.1	Test Communications	
1.1.1.0.3.1.1	Operations	
1.1.1.0.3.1.2	Upgrade and Replacements	
1.1.1.0.3.2	SW/IS Testing	
1.1.1.0.3.2.1	Lab Operations	
1.1.1.0.3.2.2	Upgrade and Replacements	
1.1.1.0.3.3	Test Range Upgrades	
1.1.1.0.4	Flight Tests	
1.1.1.0.4.1	FTM 15	ROLLUP LINE. This WBS element includes all Raytheon participation for a flight test events where Range is the primary driver.
1.1.1.0.4.1.1	Test Resources	ROLLUP LINE. This WBS element includes all Raytheon participation for a FTM 15.
1.1.1.0.4.1.2	Test Planning	This WBS element includes any Raytheon equipment or resources required to launch a missile.
1.1.1.0.4.1.3	Test Integration	This WBS element includes any test design, coordination, and element level simulation and analysis required from Raytheon prior to a flight test event.
1.1.1.0.4.1.4	Test Execution	Many different test events in Range.
1.1.1.0.4.1.5	Test Analysis	This WBS element includes deployment, execution, data collection, and redeployment of Raytheon personnel and equipment.
1.1.1.0.4.2	FTM 18	This WBS element includes Raytheon's planning, preparation, execution, and analysis of test data.
1.1.1.0.4.2.1	Test Resources	
1.1.1.0.4.2.2	Test Planning	
1.1.1.0.4.2.3	Test Integration	
1.1.1.0.4.2.4	Test Execution	
1.1.1.0.4.2.5	Test Analysis	
1.1.1.0.4.3	EPICs	
1.1.1.0.4.3.1	Test Resources	Resources brought on sensor platform & ship.
1.1.1.0.4.3.2	Test Planning	
1.1.1.0.4.3.3	Test Integration	
1.1.1.0.4.3.4	Test Execution	
1.1.1.0.4.3.5	Test Analysis	
1.1.1.4	System Engineering, Production Engineering and Functional Support	
1.1.1.4.1	System Engineering and Configuration Management & Data Management (CMTDM)	
1.1.1.4.2	System Design and Requirements	
1.1.1.4.3	Design Coordination	
1.1.1.4.4	Specialty Engineering	
1.1.1.4.5	Functional Design	
1.1.1.4.6	Simulation Tools	
1.1.1.4.7	Logistics and Reliability	
1.1.1.4.8	Regulatory Engineering Authority Support	
1.1.1.4.9	Production Control and Operations Support	
1.1.1.4.10	End to End Distributed Development System (E2EDDS)	
1.1.1.4.11	Foreign Military Sales (FMS)	
1.1.1.4.12	Transition to Production	
1.1.1.4.13	Obsolescence	
1.1.1.4.14	Off Report	
1.1.1.4.15	System Architecture & Analysis	
1.1.1.4.16	Other	See for 70.
1.1.1.4.17	Flight Test Engineering Services	
1.1.1.5	Program Management	
1.1.1.5.1	Technical PM	
1.1.1.5.2	Resource Administration	
1.1.1.5.3	Quality Assurance	
1.1.1.5.4	Mission Assurance Implementation Plan (MAIP)	
1.1.1.6	Facilities	
1.1.1.6.1	Rocket Motor Facilities	
1.1.1.6.2	EW Facilities	
1.1.1.6.3	AN MP Round (MR) Facilities	
1.1.1.7	Unique Identification (UID)	

SM 3 Work Breakdown Structure

1.1.2	Production & Deployment	ROLLUP LINE - This WBS element represents the total production and deployment for the Standard Missile 3 (SM 3) B-X Missiles. It includes the engineering, manufacturing, hardware, loading and test equipment, and AUIR integration effort required to procure producible, mission capable guided missiles.
1.1.2.1	Hardware	ROLLUP LINE - This WBS element represents the hardware subsystem production and deployment for the Standard Missile 3 (SM 3) B-X Missiles. It includes the engineering, manufacturing, hardware, special loading and test equipment, and AUIR integration effort required to procure producible, mission capable guided missiles.
1.1.2.1.1	First Stage	This WBS element covers the procurement of sufficient AUIR 12 contract numbers to deliver the required quantity of Guided Missile Rounds (GMRs) for the manufacturing CLRs.
1.1.2.1.2	Second Stage	ROLLUP LINE - This is a summary WBS element that covers the procurement of Steering Control System (SCS), Dual Thrust Rocket Motor (DTRM), and Staging Assembly (SA) in sufficient quantities to support the required Block II GMRs for the manufacturing CLRs.
1.1.2.1.2.1	Steering Control Section (SCS)	This WBS element covers the procurement of sufficient Steering Control Sections to deliver the required quantity of Guided Missile Rounds (GMRs) for the manufacturing CLRs.
1.1.2.1.2.2	Dual Thrust Rocket Motor (DTRM)	This WBS element covers the procurement of sufficient Dual Thrust Rocket Motors to deliver the required quantity of Guided Missile Rounds (GMRs) for the manufacturing CLRs.
1.1.2.1.2.3	Staging Assembly	This WBS element covers the procurement of sufficient Staging Assemblies to deliver the required quantity of Guided Missile Rounds (GMRs) for the manufacturing CLRs.
1.1.2.1.3	Third Stage	ROLLUP LINE - This is a summary WBS element that covers the procurement of the Guidance Section, and Third Stage Rocket Motor (TSRM) in sufficient quantity to support the required Block II GMRs for the manufacturing CLRs.
1.1.2.1.3.1	Guidance Section	ROLLUP LINE - This WBS element covers the production and deployment of sufficient Guidance Sections to deliver the required quantity of GMRs for the manufacturing CLRs.
1.1.2.1.3.1.1	Wyle SA Communications Transceivers (C/T) (Labor & Mat'l)	This WBS element covers the procurement of sufficient Wyle SA Communications Transceivers to deliver the required quantity of Guided Missile Rounds (GMRs) for the manufacturing CLRs.
1.1.2.1.3.1.2	Guidance Section Design, I&E	Delete in Procurement??
1.1.2.1.3.1.3	Avionics Suite	
1.1.2.1.3.1.4	Onion Air Suite (OAS) (Mat'l Only)	
1.1.2.1.3.1.5	Global Positioning System Assisted Inertial Navigation System (GAINS/IMS) - IOT Only	
1.1.2.1.3.1.6	Excit Card Assembly (ECA)	
1.1.2.1.3.1.7	RAMs & Housing (M&H) Chds	
1.1.2.1.3.1.8	Other Guidance Section Hardware (Mat'l only)	
1.1.2.1.3.1.9	SAI (Guidance Section)	
1.1.2.1.3.2	Third Stage Rocket Motor (TSRM)	
1.1.2.1.3.2.1	TDRM Airframe Control System (ACS)	
1.1.2.1.3.2.2	TDRM Other Hardware	
1.1.2.1.3.2.3	Third Stage Actuation (TSA) System	
1.1.2.1.3.2.4	Other IOT	
1.1.2.1.3.2.5	TVA I&E (If Necessary)	
1.1.2.1.3.2.6	TDRM Integration & Test	
1.1.2.1.3.2.7	TDRM Special Test Equipment (SIT) (Testing)	
1.1.2.1.3.2.8	TDRM Engineering	
1.1.2.1.3.2.9	TDRM Program Management	

DM-1 Work Breakdown Structure

1.1.1.1.1	Kinetic Warhead (KW)	
1.1.1.1.1.1	KW Kit	
1.1.1.1.1.1.1	Guidance Unit (GU)	
1.1.1.1.1.1.1.1	Motor	
1.1.1.1.1.1.1.1.1	Motor Case	
1.1.1.1.1.1.1.1.1.1	IMM W/S	
1.1.1.1.1.1.1.1.1.1.1	End of Plane Array (EPA)	
1.1.1.1.1.1.1.1.1.1.1.1	Other GU Hardware	
1.1.1.1.1.1.1.1.1.1.1.1.1	Signal Processor (SP)	
1.1.1.1.1.1.1.1.1.1.1.1.1.1	Other Sensor Hardware (Mat'l Only)	
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	Sensor Design (S/T) (Labor Only)	
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	Guidance Fuse	
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	Guidance & Control Processor (CC)	
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	Off-axis Motor Drive (OMD) CCA	
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	Power Converter Unit (PCU) CCA	
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	IMU (DW)	
1.1	Other Guidance Assy Hardware (Mat'l Only)	
1.1	Guidance Assy Design (S/T) (Labor Only)	
1.1	Other GU Hardware (Mat'l Only)	
1.1	Guidance Unit Design (S/T) (Labor Only)	
1.1	Motor	
1.1	Other KW Kit Hardware (Mat'l Only)	
1.1	KW Kit Design (S/T) (Labor Only)	
1.1	Guidance Attitude Control System (GACS)	
1.1	MFA & ACA Processors	
1.1	MFA	
1.1	Other MFA Hardware (Mat'l Only)	
1.1	MFA Design (S/T) (Labor Only)	
1.1	ACA	
1.1	Other ACA Hardware (Mat'l Only)	
1.1	ACA Design (S/T) (Labor Only)	
1.1	SOACS Other Hardware	
1.1	Can Generator	
1.1	Other Hardware (Mat'l Only)	
1.1	SOACS Other Hardware Design (S/T) (Labor Only)	
1.1	SOACS Integration & Test	
1.1	SOACS Spec of Test Equipment (SIT)/Tooling	
1.1	SOACS Engineering	
1.1	SOACS Program Management	
1.1	Other KW Hardware (Mat'l Only)	
1.1	KW Design (S/T) (Labor Only)	
1.1	Non-core	
1.1	Guided Missile Assembly Kit	
1.1	Canister	
1.1	Guided Missile Round Integration	
1.1	Round Test Set off (Upper Stage)	
1.1	Launch Operations	
1.1	FALD Operations	
1.1	Initial Spares	
1.1	Host Deployment Software Support	
1.1	System Engineering, Production Engineering and Functional Support	
1.1	System Engineering and Configuration Management & Data Management (CM/DM)	
1.1	Simulation Tools	
1.1	Logistical and Reliability	
1.1	Weapons Engineering Authority Support	
1.1	Production Control and Operations Support	
1.1	End to End Distributed Development System (E2EDS)	
1.1	Foreign Military Sales (FMS)	
1.1	Transition to Production	
1.1	Obsolescence	
1.1	GIT Support	
1.1	Other	
1.1	Program Management	
1.1	Technical PM	
1.1	Business Administration	
1.1	Quality Assurance	
1.1	Missile Assurance Implementation Plan (MAAIP)	
1.1	Unique Identification (UDI)	
1.1	Operator & Sustainment	
1.1	Maintenance	
1.1	Unique Maintenance	
1.1	Missile Sustainment	includes replenishment spares
1.1	Re-certification	
1.1	Sustaining Support	
1.1	System Specific Training	
1.1	Support Equipment Replacement	
1.1	Sustaining Engineering & Program Management	

SA Work Breakdown Structure

1.1.1.2.6	Other Sustaining Support	
1.1.1.1	Continuing System Improvements	
1.1.1.1.1	Hardware Modifications or Modernization	
1.1.1.1.2	Software Maintenance & Modifications	
1.1.1	De-Militarization	

SM-130X Breakdown Structure

1.3	Block II Guided Missile	RCM/DP/IME The WBS element represents the total effort for the Standard Missile 1 (SM-1) Block II Guided Missile. It includes design, development, manufacturing, deployment and operations a support of the Block II system.
1.3.1	Development	RCM/DP/IME The WBS element represents the total development for the Standard Missile 1 (SM-1) Block II Guided Missile. It includes engineering design, development, test, and modeling and simulation effort required to deliver a probable, mission capable guided missile.
1.3.1.1	Hardware Engineering	
1.3.1.1.1	First Stage	The WBS element covers the acquisition of the SM-1 Block II with the Target Vector Assembly (TVA) and conduct of P3 tests for flight and ground test missiles. It also includes engineering analysis to characterize the MC-72 contribution to system performance and integrate the MC-72 with the missile system.
1.3.1.1.2	Second Stage	RCM/DP/IME This is a summary WBS element that covers the procurement of Steering Control System (SCS), Dual Thrust Rocket Motor (DTRM) and Slaging Assembly (SA) in sufficient quantities to support the required SM-130X for flight and ground test. It also includes engineering and analysis to characterize the 2nd Stage contribution to system performance and integrate the 2nd stage with the missile system.
1.3.1.1.3	Steering Control Section (SCS)	The WBS element covers the procurement of sufficient Steering Control Section to deliver the required quantity of Guided Missile Rounds (GMRs) for flight and ground test. It also includes engineering and analysis to characterize the Steering Control Section contribution to system performance and integrate the Steering Control Section with the missile system.
1.3.1.1.3.1	Dual Thrust Rocket Motor (DTRM)	The WBS element covers the procurement of sufficient MC-108 Dual Thrust Rocket Motor (DTRM) second stage to deliver the required quantity of Guided Missile Rounds (GMRs) for flight and ground test. It also includes engineering and analysis to characterize the DTRM contribution to system performance and integrate the Steering Control Section with the missile system.
1.3.1.1.3.2	Slaging Assembly	The WBS element covers the procurement of sufficient Slaging Assemblies to deliver the required quantity of GMRs for flight and ground test. It also includes engineering and analysis to characterize the Slaging Control Section contribution to system performance and integrate the Slaging Assemblies with the missile system.
1.3.1.1.3.3	Third Stage	
1.3.1.1.3.4	Guidance Section	
1.3.1.1.3.4.1	Rate SA Communications Transceiver (incl. Label & Mat'l)	The WBS element covers the development and acquisition of sufficient Rate SA Communications Transceivers to deliver the required quantity of GMRs for flight and ground test. It also includes engineering and analysis to characterize the Rate SA Communications Transceiver contribution to system performance and integrate with the missile system.
1.3.1.1.3.4.2	Guidance Section Design (I&E)	
1.3.1.1.3.4.3	CSA Design (I&E) Label	
1.3.1.1.3.4.4	Antenna Suite	RCM/DP/IME The WBS element covers the development and acquisition of sufficient Antenna Suites to deliver the required quantity of GMRs for flight and ground test. It also includes engineering and analysis to characterize the Antenna Suite contribution to system performance and integrate with the missile system.
1.3.1.1.3.4.5	Other Av Suite (I&E) (Mat'l Only)	
1.3.1.1.3.4.6	Global Positioning System-Aided Inertial Navigation System (GINS/INS) - RT Only	The WBS element covers the development and acquisition of sufficient GPS Aided Inertial Navigation Systems to deliver the required quantity of GMRs for flight and ground test. It also includes engineering and analysis to characterize the Navigation System contribution to system performance and integrate with the missile system.
1.3.1.1.3.4.7	Control Card Assemblies (CCA)	The WBS element covers the acquisition of sufficient CCAs to deliver the required quantity of GMRs for flight and ground test.
1.3.1.1.3.4.8	Harness & Housing (Mat'l Only)	The WBS element covers the development and acquisition of sufficient Harness and Housing TAs to deliver the required quantity of GMRs for flight and ground test.
1.3.1.1.3.4.9	Other Guidance Section Hardware (Material Only)	
1.3.1.1.3.4.10	IMU (Guidance Section)	The WBS element covers the development and acquisition of sufficient IMUs to deliver the required quantity of GMRs for flight and ground test. It also includes engineering and analysis to characterize the IMU contribution to system performance and integrate with the missile system.
1.3.1.1.4	Third Stage Rocket Motor (TVM)	RCM/DP/IME The WBS element covers the development and acquisition of sufficient TVMs to deliver the required quantity of GMRs for flight and ground test. It also includes engineering and analysis to characterize the TVM contribution to system performance and integrate with the missile system.
1.3.1.1.4.1	TVM Attitude Control Section (ACS)	The WBS element covers the development and acquisition of sufficient ACSs to deliver the required quantity of GMRs for flight and ground test. It also includes engineering and analysis to characterize the ACS contribution to system performance and integrate with the missile system.
1.3.1.1.4.2	TVM Drive Hardware	
1.3.1.1.4.2.1	Thrust Vector Actuation (TVA) System	The WBS element covers the development and acquisition of sufficient TVAs to deliver the required quantity of GMRs for flight and ground test. It also includes engineering and analysis to characterize the TVA contribution to system performance and integrate with the missile system.
1.3.1.1.4.2.2	Other TVM	
1.3.1.1.4.2.3	TVA I&E (I/Pre-assess)	
1.3.1.1.4.2.4	TVM Integration & Test	The WBS element covers the integration and assembly of the required quantity of GMRs for flight and ground test.
1.3.1.1.4.2.5	TVM Special Test (equipment, SITS) Loading	The WBS element covers the acquisition of parts and test equipment required to deliver the required quantity of GMRs for flight and ground test and to support transition to global test.
1.3.1.1.4.2.6	TVM Engineering	The WBS element covers the development, planning, development of assembly and test procedures, and documentation of manufacturing processes required to deliver the required quantity of GMRs for flight and ground test and to support transition to production.
1.3.1.1.4.2.7	TVM Program Management	The WBS element covers the subcontractor program management and business operation for the design, development, and test of the TVM.
1.3.1.1.5	Fourth Warhead (FW)	RCM/DP/IME This is a summary WBS element that covers the development and acquisition of Fourth Warhead in sufficient quantity to support the required SM-130X GMRs for flight and ground test. It also includes engineering and analysis to characterize the Fourth Warhead contribution to system performance and integrate with the missile system.
1.3.1.1.5.1	Guidance Unit (GU)	RCM/DP/IME This is a summary WBS element that covers the development and acquisition of Guidance Units in sufficient quantity to support the required SM-130X GMRs for flight and ground test. It also includes engineering and analysis to characterize the Guidance Unit contribution to system performance and integrate with the missile system. The Guidance Unit includes a Guidance Assembly and Integration and Test.
1.3.1.1.5.1.1	Sensor	RCM/DP/IME This is a summary WBS element that covers the development and acquisition of Sensors in sufficient quantity to support the required SM-130X GMRs for flight and ground test. It also includes engineering and analysis to characterize the Sensor contribution to system performance and integrate with the missile system. The Sensor includes a Telescope, Integrated SA Assembly, and Integration and Test.
1.3.1.1.5.1.2	Telescope	The WBS element covers the development and acquisition of sufficient Telescopes to deliver the required quantity of GMRs for flight and ground test. It also includes engineering and analysis to characterize the Telescope contribution to system performance and integrate with the missile system.
1.3.1.1.5.1.3	OSA (W)	RCM/DP/IME This is a summary WBS element that covers the development and acquisition of OSA Ws in sufficient quantity to support the required SM-130X GMRs for flight and ground test. It also includes engineering and analysis to characterize the OSA Ws contribution to system performance and integrate with the missile system. The OSA Ws includes a focal plane array, line assembly, and integration and test.
1.3.1.1.5.1.3.1	Focal Plane Array (FPA) FW	
1.3.1.1.5.1.3.2	Other OSA Hardware FW	
1.3.1.1.5.1.4	IMU (FW)	
1.3.1.1.5.1.5	Other Sensor Hardware (Mat'l Only)	
1.3.1.1.5.2	Sensor Design I&E (Label Only)	The WBS element covers the development, planning, acquisition of parts and test equipment, development of assembly and test procedures, and documentation of manufacturing processes required to deliver the required quantity of GMRs for flight and ground test and to support transition to production.
1.3.1.1.5.2.1	Sensor Assembly	
1.3.1.1.5.2.2	Antenna Assembly Bearing	
1.3.1.1.5.2.3	Frangibles CCA	
1.3.1.1.5.3	Advanced Signal Processor (ASP)	
1.3.1.1.5.4	Other GU Hardware (Mat'l Only)	The WBS element covers the acquisition of parts and materials required in assembly and integrate the Guidance Unit.
1.3.1.1.5.5	Guidance Unit Design I&E (Label Only)	
1.3.1.1.5.6	Guidance Unit (GU) Electrical Support	The WBS element covers the development, planning, acquisition of test equipment, development of assembly and test procedures, and documentation of manufacturing processes required to deliver the required quantity of GMRs for flight and ground test and to support transition to production.
1.3.1.1.6	Factor	
1.3.1.1.6.1	Factor Bearing	The WBS covers the installation of systems by bearing an integral guidance unit.
1.3.1.1.6.2	Factor Direct Support	

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1.2.1.1.3	Harnesses / Antenna	
1.2.1.1.4	Antenna	
1.2.1.1.5	Harnesses	
1.2.1.1.5.1	Thrustable (Diver) Attitude Control System (TDACS)	
1.2.1.1.5.1.1	Diver Thrusters	
1.2.1.1.5.1.1.1	Actuation Hardware	
1.2.1.1.5.1.1.2	Thrusters	
1.2.1.1.5.1.1.3	Other Thruster Hardware (Mat'l Only)	
1.2.1.1.5.1.1.4	Thruster Design, I&T (Labor Only)	
1.2.1.1.5.1.2	AES Thrusters	
1.2.1.1.5.1.2.1	Actuation Hardware	
1.2.1.1.5.1.2.2	Thrusters	
1.2.1.1.5.1.2.3	Other Thruster Hardware (Mat'l Only)	
1.2.1.1.5.1.2.4	Thruster Design, I&T (Labor Only)	
1.2.1.1.5.1.3	Gas Generators	
1.2.1.1.5.1.4	Other TDACS Hardware (Mat'l Only)	
1.2.1.1.5.1.5	Final Assembly	
1.2.1.1.5.4	TDACS Integration & Test	This WBS element covers the development, planning, acquisition of parts, development of assembly and test procedures, and documentation of manufacturing processes required to deliver required quantity of GMRs for flight and ground test and to support transition to production.
1.2.1.1.5.4.1	TDACS Special Test Equipment (STE) / Tooling	This WBS element covers the acquisition of test equipment required to deliver the required quantity of GMRs for flight and ground test and to support transition to production.
1.2.1.1.5.4.2	TDACS Engineering Studies	This WBS element includes specialty engineering studies to determine performance characteristics and design configuration options for the TDACS.
1.2.1.1.5.4.3	TDACS Engineering	The WBS element includes TDACS design and systems engineering performed by the TDACS subcontractor.
1.2.1.1.5.4.4	TDACS Program Management	This WBS element includes program management, configuration control, and business operations performed by the TDACS subcontractor.
1.2.1.1.5.4.5	Other KW Hardware (Mat'l Only)	The WBS covers the acquisition of parts and materials required to assemble and integrate the KW kit.
1.2.1.1.5.6	KW Design, I&T (Labor Only)	This WBS element covers the development, planning, acquisition of test equipment, development of assembly and test procedures, and documentation of manufacturing processes required to deliver the required quantity of GMRs for flight and ground test and to support transition to production.
1.2.1.1.6	Reconone	
1.2.1.1.7	Guided Missile Assembly Kit	
1.2.1.1.8	Guidon	
1.2.1.1.9	Guided Missile Round Integration	
1.2.1.1.9.1	Round Test Set-off (Upper Stage)	
1.2.1.1.9.2	Guidon Operations	
1.2.1.1.9.3	FACD Operations	
1.2.1.1.10	Hardware Analysis	
1.2.1.1.10.1	IT&A System Engineering (SE)	
1.2.1.1.10.2	Special Test Equipment (STE)	
1.2.1.1.10.2.1	Seeker ATE	
1.2.1.1.10.2.2	Missile ATE	
1.2.1.1.10.3	Design Verification Tests (DVTs)	
1.2.1.1.10.4	Flight Test Round Kits	
1.2.1.1.10.5	Propulsion Technical Team	
1.2.1.2	Software	
1.2.1.2.1	Guidance, Navigation & Control	
1.2.1.2.2	Stage 2 Software	
1.2.1.2.3	Stage 3 Software	
1.2.1.2.4	Signal Processor Software	
1.2.1.2.5	Software System Integration	
1.2.1.3	Test & Evaluation	
1.2.1.3.1	Test and Evaluation Program Management	
1.2.1.3.2	Test and Evaluation Systems Engineering & Integration	
1.2.1.3.3	Test Infrastructure	
1.2.1.3.3.1	Test Communications	
1.2.1.3.3.1.1	Operations	
1.2.1.3.3.1.2	Upgrades and Replacements	
1.2.1.3.3.2	HWs, Tooling	
1.2.1.3.3.2.1	Lab Operations	
1.2.1.3.3.2.2	Upgrades and Replacements	
1.2.1.3.3.3	Test Range Upgrades	
1.2.1.3.4	AR Flight Tests	
1.2.1.3.4.1	FTM 16	
1.2.1.3.4.1.1	Test Resources	
1.2.1.3.4.1.2	Test Planning	
1.2.1.3.4.1.3	Test Integration	
1.2.1.3.4.1.4	Test Execution	
1.2.1.3.4.1.5	Test Analysis	
1.2.1.3.4.2	FTM 19	
1.2.1.3.4.2.1	Test Resources	
1.2.1.3.4.2.2	Test Planning	
1.2.1.3.4.2.3	Test Integration	
1.2.1.3.4.2.4	Test Execution	
1.2.1.3.4.2.5	Test Analysis	
1.2.1.3.4.3	FTM 20	
1.2.1.3.4.3.1	Test Resources	
1.2.1.3.4.3.2	Test Planning	
1.2.1.3.4.3.3	Test Integration	
1.2.1.3.4.3.4	Test Execution	
1.2.1.3.4.3.5	Test Analysis	
1.2.1.3.4.4	FTM 21	
1.2.1.3.4.4.1	Test Resources	
1.2.1.3.4.4.2	Test Planning	

SM-2 Work Breakdown Structure

1.2.2.1.1	Avionics Workhead (AW)
1.2.2.1.1.1	Guidance Unit (GU)
1.2.2.1.1.1.1	Sensor
1.2.2.1.1.1.1.1	Thermostat
1.2.2.1.1.1.1.2	GA HW
1.2.2.1.1.1.1.3	Adult Main Array (DMA) HW
1.2.2.1.1.1.1.4	Other GA hardware HW
1.2.2.1.1.1.2	(MSI) HW
1.2.2.1.1.1.4	Other Sensor Hardware (Mat'l Only)
1.2.2.1.1.1.5	Sensor Design, I&T (Labor Only)
1.2.2.1.1.2	Avionics Assembly
1.2.2.1.1.2.1	Avionics Assembly Wiring
1.2.2.1.1.2.2	Interposer UGA
1.2.2.1.1.2.3	Advanced Signal Processor (ASP)
1.2.2.1.1.2.4	Other G/L Hardware (Mat'l Only)
1.2.2.1.1.2.5	Guidance Unit Design, I&T (Labor Only)
1.2.2.1.1.2.6	Guidance Unit/TMACS electrical Support
1.2.2.1.2	Engine
1.2.2.1.2.1	Engine Bearing
1.2.2.1.2.2	Engine Mount Support
1.2.2.1.2.3	Hardware / Airframe
1.2.2.1.2.4	Software
1.2.2.1.2.5	Hardware
1.2.2.1.2.6	Operable/Owner Attitude Control System (TOACS)
1.2.2.1.2.7	Mount Thrusters
1.2.2.1.2.8	Actuation Hardware
1.2.2.1.2.9	Thrusters
1.2.2.1.2.10	Other Thruster Hardware (Mat'l Only)
1.2.2.1.2.11	Thruster Design, I&T (Labor Only)
1.2.2.1.2.12	MS Thrusters
1.2.2.1.2.13	Actuation Hardware
1.2.2.1.2.14	Thrusters
1.2.2.1.2.15	Other Thruster Hardware (Mat'l Only)
1.2.2.1.2.16	Thruster Design, I&T (Labor Only)
1.2.2.1.2.17	Gas Generators
1.2.2.1.2.18	Other TOACS Hardware (Mat'l Only)
1.2.2.1.2.19	Final Assembly
1.2.2.1.2.20	TOACS integration & Test
1.2.2.1.2.21	TOACS Special Test Equipment (SIT)/Training
1.2.2.1.2.22	TOACS Engineering Studies
1.2.2.1.2.23	TOACS Engineering
1.2.2.1.2.24	TOACS Program Management
1.2.2.1.2.25	Other PW Hardware (Mat'l Only)
1.2.2.1.2.26	EW Design, I&T (Labor Only)
1.2.2.1.3	Propulsion
1.2.2.1.3.1	Guided Missile Assembly Kit
1.2.2.1.3.2	Cartridge
1.2.2.1.3.3	Guided Missile Round Integration
1.2.2.1.3.4	Round sure lock off (Russo Stage)
1.2.2.1.3.5	Launch Operations
1.2.2.1.3.6	FACI Operations
1.2.2.1.3.7	Hardware Analysis
1.2.2.1.3.8	T&A System Engineering (SE)
1.2.2.1.3.9	Special Test Equipment (SIT)
1.2.2.1.3.10	Sensor ATIS
1.2.2.1.3.11	Missile ATIS
1.2.2.1.3.12	Target-Go-Search Tests (GOTS)
1.2.2.1.3.13	Target Test Round Kits
1.2.2.1.3.14	Propulsion Technical Team
1.2.2.2	Initial Spares
1.2.2.3	Post Deployment Software Support
1.2.2.4	System Engineering, Production Engineering and Functional Support
1.2.2.4.1	System Engineering and Configuration Management & Data Management (EM/DM)
1.2.2.4.2	Simulation Tools
1.2.2.4.3	Logistical and Reliability
1.2.2.4.4	Responsible Engineering Authority Support
1.2.2.4.5	Production Control and Operations Support
1.2.2.4.6	End to End Distributed Development System (EDDS)
1.2.2.4.7	Foreign Military Sales (FMS)
1.2.2.4.8	Transfer to Production
1.2.2.4.9	Inspection
1.2.2.4.10	GFI Repair
1.2.2.4.11	Other
1.2.2.5	Program Management
1.2.2.5.1	Technical PM
1.2.2.5.2	Business Administration
1.2.2.5.3	Quality Assurance
1.2.2.5.4	Missile Assurance Implementation Plan (MAIP)
1.2.2.6	Program Administration (PA)
1.2.3	Operation & Sustainment

SR 3 Work Breakdown Structure

1.2.3.1	Maintenance	
1.2.3.1.1	Depot Maintenance	Includes replacement of parts
1.2.3.1.2	Minor Servicing	
1.2.3.1.3	Repairs	
1.2.3.2	Continuing Support	
1.2.3.2.1	System Specific Training	
1.2.3.2.2	Supplier Equipment Replacement	
1.2.3.2.3	Continuing Engineering & Program Management	
1.2.3.2.4	Other Continuing Support	
1.2.3.3	Continuing System Improvements	
1.2.3.3.1	Hardware Modifications or Modernizations	
1.2.3.3.2	Software Maintenance & Modifications	
1.2.4	Or Modernization	

MISSILE DEFENSE AGENCY

SM-3 IB Missile Configuration

HQ0276-11-C-0002

Attachment 9

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Withheld in Full

Under Exemption (b)(4)

MISSILE DEFENSE AGENCY

Cost & Software Data Reporting Plan – DD2794

HQ0276-11-C-0002

Attachment 10

June 13, 2011

COST AND SOFTWARE DATA REPORTING PLAN										Form Approved OMB No. 3704-0187	
<p>The basic reporting system for the collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Executive Service Directorate (DDA-078). Respondents should be aware that notwithstanding any other provision of law, no person shall be held liable for any penalty for failing to comply with a collection of information if it does not display this estimate. PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.</p>											
1a. PROGRAM (MDAP)			1b. PRIME MISSION PRODUCT			1c. MILESTONE			2. MIL-HDBK-481 APPENDIX USED		
Aegis BMD SM-3 Missile			SM-3 Bk (B)			A B C			Missile Systems		
4. CURRENT SUBMISSION DATE (YYYYMMDD)						5. LAST APPROVED PLAN DATE (YYYYMMDD)					
3. POINT OF CONTACT (POC) NAME AND ADDRESS (Include ZIP Code)						6a. TELEPHONE NUMBER (Include Area Code)		6b. FAX NUMBER (Include Area Code)		6c. E-MAIL ADDRESS	
Aegis BMD Program Office (MDA/AS) Dahlgren Road Dahlgren, Va 22448						(540) 863-1748		(540) 863-6435		www.asmd.com	
7. PLAN TYPE						8. PREPARING ORGANIZATION		9. APPROVED PLAN NUMBER			
PROGRAM CONTRACT						PRIME SUB					
PROGRAM	CONTRACT	11. WBS REPORTING ELEMENTS	12a. CONTRACTOR NAME	12b. CONTRACT NUMBER	13. REPORTS REQUIRED (x if applicable)						
					a. CWBS DICTIONARY	b. DD 1921 (CDBR)	c. DD 1921-1 (FCHR)	d. DD 1921-2 (PCR)	e. SROR FORMATS		
1.92.1.2	1.0	SM-3 Missile			X	X					
1.92.1.2	1.1	Block IA/B Guided Missile			X	X					
1.92.1.2	1.1.1	Development			X	X					
1.92.1.2	1.1.1.1	Hardware			X	X					
1.92.1.2	1.1.1.1.1	First Stage			X	X	X	X			
1.92.1.2	1.1.1.1.2	Second Stage			X	X					
1.92.1.2	1.1.1.1.2.1	Steering Control Section (SCS)			X	X	X	X			
1.92.1.2	1.1.1.1.2.2	Dual Thrust Rocket Motor (DTRM)			X	X	X	X			
1.92.1.2	1.1.1.1.2.3	Staging Assembly			X	X	X	X			
1.92.1.2	1.1.1.1.3	Third Stage			X	X					
1.92.1.2	1.1.1.1.3.1	Guidance Section			X	X					
1.92.1.2	1.1.1.1.3.1.1	Plate 3A Communications Transceiver (incl Labor & Matl)			X	X	X	X			
1.92.1.2	1.1.1.1.3.1.2	Guidance Section Design, IA&T			X	X	X	X			
1.92.1.2	1.1.1.1.3.1.3	Circuit Card Assemblies (CCAs)			X	X	X	X			
1.92.1.2	1.1.1.1.3.1.4	Avionics Suite			X	X					
1.92.1.2	1.1.1.1.3.1.4.1	Global Positioning System Aided Inertial Navigation System (GAINS/IMU) -OT Only			X	X	X	X			
1.92.1.2	1.1.1.1.3.1.4.2	Circuit Card Assemblies (CCAs)			X	X	X	X			
1.92.1.2	1.1.1.1.3.1.4.3	IMU			X	X	X	X			
1.92.1.2	1.1.1.1.3.1.4.4	Oper Av Suite HW (Matl Only)			X	X	X	X			
1.92.1.2	1.1.1.1.3.1.4.5	Avionics Suite IA&T			X	X	X	X			
1.92.1.2	1.1.1.1.3.1.5	Harness & Housing (Matl Only)			X	X	X	X			
1.92.1.2	1.1.1.1.3.1.6	Other Guidance Section Hardware (Material Only)			X	X	X	X			
1.92.1.2	1.1.1.1.3.2	Third Stage Rocket Motor (TSRM)			X	X					
1.92.1.2	1.1.1.1.3.2.1	TSRM Attitude Control System (ACS)			X	X	X	X			
1.92.1.2	1.1.1.1.3.2.2	Thrust Vector Actuation (TVA) System			X	X					
1.92.1.2	1.1.1.1.3.2.2.1	TVA Hardware			X	X	X	X			
1.92.1.2	1.1.1.1.3.2.2.2	TVA IA&T			X	X	X	X			
1.92.1.2	1.1.1.1.3.2.3	TSRM Other Hardware			X	X	X	X			
1.92.1.2	1.1.1.1.3.2.4	TSRM Integration & Test			X	X	X	X			
1.92.1.2	1.1.1.1.3.2.5	TSRM Special Test Equipment (STE)/Testing			X	X	X	X			
1.92.1.2	1.1.1.1.3.2.6	TSRM Engineering			X	X	X	X			
1.92.1.2	1.1.1.1.3.2.7	TSRM Program Management			X	X	X	X			
1.92.1.2	1.1.1.1.4	Kinetic Warhead (KW)			X	X					
1.92.1.2	1.1.1.1.4.1	IA&T			X	X					
1.92.1.2	1.1.1.1.4.1.1	Guidance Unit (GU)			X	X					
1.92.1.2	1.1.1.1.4.1.1.1	Seeker			X	X					
1.92.1.2	1.1.1.1.4.1.1.1.1	Sensor			X	X					
1.92.1.2	1.1.1.1.4.1.1.1.1.1	Telescope			X	X	X	X			
1.92.1.2	1.1.1.1.4.1.1.1.1.2	IDA RVIS			X	X					
1.92.1.2	1.1.1.1.4.1.1.1.1.2.1	Focal Plane Array (FPA)			X	X	X	X			
1.92.1.2	1.1.1.1.4.1.1.1.1.2.2	Other IDA Hardware			X	X	X	X			
1.92.1.2	1.1.1.1.4.1.1.2	Signal Processor (SP)			X	X	X	X			
1.92.1.2	1.1.1.1.4.1.1.3	Other Seeker Hardware (Matl Only)			X	X	X	X			
1.92.1.2	1.1.1.1.4.1.1.4	Seeker Design, IA&T (Labor Only)			X	X	X	X			
1.92.1.2	1.1.1.1.4.1.2	Guidance Assy			X	X					

DD FORM 754, 30/04/00

PREVIOUS EDITION IS OBSOLETE

COST AND SOFTWARE DATA REPORTING PLAN

A PROGRAM	B CONTRACT	11 WBS REPORTING ELEMENTS	12A CONTRACTOR NAME	12B CONTRACT NUMBER	13 REPORTS REQUIRED (Frequency)				14 SRCR FORMATS
					a CWBS DICTIONARY	b DD 1921 (CDBR)	c DD 1921-1 (CFBR)	d DD 1921-2 (PCR)	
19212	111141121	Guidance & Control Processor CCA			X	X	X	X	
19212	111141122	Drainage Valve Driver (VDD), CCA			X	X	X	X	
19212	111141123	Power Converter Unit (PCU), CCA			X	X	X	X	
19212	111141124	MU Only			X	X	X	X	
19212	111141125	Other Guidance Assy Hardware (Matl Only)			X	X	X	X	
19212	111141126	Guidance Assy Design (MT Labor Only)			X	X	X	X	
19212	111141127	Other GU Hardware (Matl Only)			X	X	X	X	
19212	111141128	Guidance Unit Design (MT Labor Only)			X	X	X	X	
19212	111141129	Selector			X	X	X	X	
19212	111141130	Other VTA Hardware (Matl Only)			X	X	X	X	
19212	111141131	VTA Design (MT Labor Only)			X	X	X	X	
19212	111142	Skid Mount Attitude Control System (SuACS)			X	X	X	X	
19212	1111421	VTA			X	X	X	X	
19212	11114211	Valves			X	X	X	X	
19212	11114212	Other VTA Hardware (Matl Only)			X	X	X	X	
19212	11114213	VTA Design (MT Labor Only)			X	X	X	X	
19212	1111422	ACA			X	X	X	X	
19212	11114221	Valves			X	X	X	X	
19212	11114222	Other ACA Hardware (Matl Only)			X	X	X	X	
19212	11114223	ACA Design (MT Labor Only)			X	X	X	X	
19212	1111423	SDACS Other Hardware			X	X	X	X	
19212	11114231	Gas Generator			X	X	X	X	
19212	11114232	Other Hardware (Matl Only)			X	X	X	X	
19212	11114233	SDACS Other Hardware Design (MT Labor Only)			X	X	X	X	
19212	1111424	SDACS Integration & Test			X	X	X	X	
19212	1111425	SDACS Special Test Equipment (SBE) Design			X	X	X	X	
19212	1111426	SDACS Engineering Studies			X	X	X	X	
19212	1111427	SDACS Engineering			X	X	X	X	
19212	1111428	SDACS Program Management			X	X	X	X	
19212	111143	Other KV Hardware (Matl Only)			X	X	X	X	
19212	111144	KV Design (MT Labor Only)			X	X	X	X	
19212	11115	Prosecone			X	X	X	X	
19212	11116	Guided Missile Assembly (GMA)			X	X	X	X	
19212	11117	Canister			X	X	X	X	
19212	11118	Guided Missile Round Integration			X	X	X	X	
19212	111191	Round and Set (R&S) per Stage			X	X	X	X	
19212	111192	Guided Operations			X	X	X	X	
19212	111193	FACO Operators			X	X	X	X	
19212	111194	Hardware Analysis			X	X	X	X	
19212	111195	T&A System Engineering (SE)			X	X	X	X	
19212	111196	Special Test Equipment (STE)			X	X	X	X	
19212	111197	Secret ATE			X	X	X	X	
19212	111198	Missile ATE			X	X	X	X	
19212	111199	Design Verification Tests (DVTs)			X	X	X	X	
19212	11120	Flight Test Round Kits			X	X	X	X	
19212	11121	Propulsion Technical Team			X	X	X	X	
19212	11122	Software			X	X	X	X	
19212	11123	SubStage Navigation & Control			X	X	X	X	
19212	11124	Stage 2 Software			X	X	X	X	
19212	11125	Stage 1 Software			X	X	X	X	
19212	11126	Signal Processor Software			X	X	X	X	
19212	11127	Software System Integration			X	X	X	X	
19212	11128	Test & Evaluation			X	X	X	X	
19212	11129	Test and Evaluation Program Management			X	X	X	X	
19212	11130	Test and Evaluation System Engineering & Integration			X	X	X	X	
19212	11131	Test Infrastructure			X	X	X	X	
19212	11132	Test Communications			X	X	X	X	
19212	11133	Operations			X	X	X	X	
19212	11134	Upgrades and Replacements			X	X	X	X	
19212	11135	Test and Evaluation			X	X	X	X	
19212	11136	Test and Evaluation			X	X	X	X	
19212	11137	Test and Evaluation			X	X	X	X	
19212	11138	Test and Evaluation			X	X	X	X	
19212	11139	Test and Evaluation			X	X	X	X	
19212	11140	Test and Evaluation			X	X	X	X	
19212	11141	Test and Evaluation			X	X	X	X	
19212	11142	Test and Evaluation			X	X	X	X	
19212	11143	Test and Evaluation			X	X	X	X	
19212	11144	Test and Evaluation			X	X	X	X	
19212	11145	Test and Evaluation			X	X	X	X	
19212	11146	Test and Evaluation			X	X	X	X	
19212	11147	Test and Evaluation			X	X	X	X	
19212	11148	Test and Evaluation			X	X	X	X	
19212	11149	Test and Evaluation			X	X	X	X	
19212	11150	Test and Evaluation			X	X	X	X	
19212	11151	Test and Evaluation			X	X	X	X	
19212	11152	Test and Evaluation			X	X	X	X	
19212	11153	Test and Evaluation			X	X	X	X	
19212	11154	Test and Evaluation			X	X	X	X	
19212	11155	Test and Evaluation			X	X	X	X	
19212	11156	Test and Evaluation			X	X	X	X	
19212	11157	Test and Evaluation			X	X	X	X	
19212	11158	Test and Evaluation			X	X	X	X	
19212	11159	Test and Evaluation			X	X	X	X	
19212	11160	Test and Evaluation			X	X	X	X	
19212	11161	Test and Evaluation			X	X	X	X	
19212	11162	Test and Evaluation			X	X	X	X	
19212	11163	Test and Evaluation			X	X	X	X	
19212	11164	Test and Evaluation			X	X	X	X	
19212	11165	Test and Evaluation			X	X	X	X	
19212	11166	Test and Evaluation			X	X	X	X	
19212	11167	Test and Evaluation			X	X	X	X	
19212	11168	Test and Evaluation			X	X	X	X	
19212	11169	Test and Evaluation			X	X	X	X	
19212	11170	Test and Evaluation			X	X	X	X	
19212	11171	Test and Evaluation			X	X	X	X	
19212	11172	Test and Evaluation			X	X	X	X	
19212	11173	Test and Evaluation			X	X	X	X	
19212	11174	Test and Evaluation			X	X	X	X	
19212	11175	Test and Evaluation			X	X	X	X	
19212	11176	Test and Evaluation			X	X	X	X	
19212	11177	Test and Evaluation			X	X	X	X	
19212	11178	Test and Evaluation			X	X	X	X	
19212	11179	Test and Evaluation			X	X	X	X	
19212	11180	Test and Evaluation			X	X	X	X	
19212	11181	Test and Evaluation			X	X	X	X	
19212	11182	Test and Evaluation			X	X	X	X	
19212	11183	Test and Evaluation			X	X	X	X	
19212	11184	Test and Evaluation			X	X	X	X	
19212	11185	Test and Evaluation			X	X	X	X	
19212	11186	Test and Evaluation			X	X	X	X	
19212	11187	Test and Evaluation			X	X	X	X	
19212	11188	Test and Evaluation			X	X	X	X	
19212	11189	Test and Evaluation			X	X	X	X	
19212	11190	Test and Evaluation			X	X	X	X	
19212	11191	Test and Evaluation			X	X	X	X	
19212	11192	Test and Evaluation			X	X	X	X	
19212	11193	Test and Evaluation			X	X	X	X	
19212	11194	Test and Evaluation			X	X	X	X	
19212	11195	Test and Evaluation			X	X	X	X	
19212	11196	Test and Evaluation			X	X	X	X	
19212	11197	Test and Evaluation			X	X	X	X	
19212	11198	Test and Evaluation			X	X	X	X	
19212	11199	Test and Evaluation			X	X	X	X	
19212	11200	Test and Evaluation			X	X	X	X	
19212	11201	Test and Evaluation			X	X	X	X	
19212	11202	Test and Evaluation			X	X	X	X	
19212	11203	Test and Evaluation			X	X	X	X	
19212	11204	Test and Evaluation			X	X	X	X	
19212	11205	Test and Evaluation			X	X	X	X	
19212	11206	Test and Evaluation			X	X	X	X	
19212	11207	Test and Evaluation			X	X	X	X	
19212	11208	Test and Evaluation			X	X	X	X	
19212	11209	Test and Evaluation			X	X	X	X	
19212	11210	Test and Evaluation			X	X	X	X	
19212	11211	Test and Evaluation			X	X	X	X	
19212	11212	Test and Evaluation			X	X	X	X	
19212	11213	Test and Evaluation			X	X	X	X	
19212	11214	Test and Evaluation			X	X	X	X	
19212	11215	Test and Evaluation			X	X	X	X	
19212	11216	Test and Evaluation			X	X	X	X	
19212	11217	Test and Evaluation			X	X	X	X	
19212	11218	Test and Evaluation			X	X	X	X	
19212	11219	Test and Evaluation			X	X	X	X	
19212	11220	Test and Evaluation			X	X	X	X	
19212	11221	Test and Evaluation			X	X	X	X	
19212	11222	Test and Evaluation			X	X	X	X	
19212	11223	Test and Evaluation			X	X	X	X	
19212	11224	Test and Evaluation			X	X	X	X	
19212	11225	Test and Evaluation			X	X	X	X	
19212	11226	Test and Evaluation			X	X	X	X	
19212	11227	Test and Evaluation			X	X	X	X	
19212	11228	Test and Evaluation			X	X	X	X	
19212	11229	Test and Evaluation			X	X	X	X	
19212	11230	Test and Evaluation			X	X	X	X	
19212	11231	Test and Evaluation			X	X	X	X	
19212	11232	Test and Evaluation			X	X	X	X	
19212	11233	Test and Evaluation			X	X	X	X	
19212	11234	Test and Evaluation			X	X	X	X	
19212	11235	Test and Evaluation			X	X	X	X	
19212	11236	Test and Evaluation			X	X	X	X	
19212	11237	Test and Evaluation			X	X	X	X	
19212	11238	Test and Evaluation			X	X	X	X	
19212	11239	Test and Evaluation			X	X	X	X	
19212	11240	Test and Evaluation			X	X	X	X	
19212	11241	Test and Evaluation			X	X	X	X	
19212	11242	Test and Evaluation			X	X	X	X	
19212	11243	Test and Evaluation			X	X	X	X	
19212	11244	Test and Evaluation			X	X	X	X	
19212	11245	Test and Evaluation			X	X	X	X	
19212	11246	Test and Evaluation			X	X	X	X	
19212	11247	Test and Evaluation			X	X	X	X	
19212	11248	Test and Evaluation			X	X	X	X	
19212	11249	Test and Evaluation			X	X	X	X	
19212	11250	Test and Evaluation			X	X	X	X	
19212	11251	Test and Evaluation			X	X	X	X	
19212	11252	Test and Evaluation			X	X	X	X	
19212	11253	Test and Evaluation			X	X	X	X	
19212	11254	Test and Evaluation			X	X	X	X	
19212	11255	Test and Evaluation			X	X	X	X	
19212	11256	Test and Evaluation			X	X	X	X	
19212	11257	Test and Evaluation			X	X	X	X	
19212	11258	Test and Evaluation			X				

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4 PROGRAM	5 CONTRACT	11 WBS REPORTING ELEMENTS	12a CONTRACTOR NAME	12b CONTRACT NUMBER	13 REPORTS REQUIRED (if applicable)				
					4 CWBS DICTIONARY	5 DD 1921 (CDSR)	6 DD 1921-1 (FCR)	7 DD 1921-2 (PCR)	8 SRDR FORMATS
19212	11134	Test Range Upgrades			X	X			
19212	11134	AB Flight Tests			X	X	X	X	
19212	111341	FTM-15			X	X	X	X	
19212	1113411	Test Resources			X	X	X	X	
19212	1113412	Test Planning			X	X	X	X	
19212	1113413	Test Integration			X	X	X	X	
19212	1113414	Test Execution			X	X	X	X	
19212	1113415	Test Analysis			X	X	X	X	
19212	111342	FTM 18			X	X	X	X	
19212	1113421	Test Resources			X	X	X	X	
19212	1113422	Test Planning			X	X	X	X	
19212	1113423	Test Integration			X	X	X	X	
19212	1113424	Test Execution			X	X	X	X	
19212	1113425	Test Analysis			X	X	X	X	
19212	111343	EPOCH-*			X	X	X	X	
19212	1113431	Test Resources			X	X	X	X	
19212	1113432	Test Planning			X	X	X	X	
19212	1113433	Test Integration			X	X	X	X	
19212	1113434	Test Execution			X	X	X	X	
19212	1113435	Test Analysis			X	X	X	X	
19212	1114	System Engineering, Production Engineering and Functional Support			X	X			
19212	11141	System Engineering and Configuration Management & Data Management (SCM/DM)			X	X			
19212	11142	System Design and Requirements			X	X			
19212	11143	Design Coordination			X	X			
19212	11144	Specialty Engineering			X	X			
19212	11145	Functional Design			X	X			
19212	11146	Simulation Tools			X	X			
19212	11147	Logistics and Reliability			X	X			
19212	11148	Responsible Engineering Authority Support			X	X			
19212	11149	Production Control and Operator's Support			X	X			
19212	111410	End-to-End Distributed Development System (EEDDS)			X	X			
19212	111411	Foreign Military Sales (FMS)			X	X			
19212	111412	Transition to Production			X	X			
19212	111413	Obsolescence			X	X			
19212	111414	GFE Repair			X	X			
19212	111415	System Architecture Analysis			X	X			
19212	111416	Clear			X	X			
19212	111417	Flight Test Engineering Services			X	X			
19212	111418	Program Management			X	X			
19212	11151	Technical EV			X	X			
19212	11152	Business Administration			X	X			
19212	11153	Quality Assurance			X	X	X	X	
19212	11154	Mission Assurance Implementation Plan (MAIP)			X	X	X	X	
19212	1116	Facultation			X	X			
19212	11161	Rocket Motor Facilities			X	X	X	X	
19212	11162	VW Facilities			X	X	X	X	
19212	11163	As-Used Round (ALR) Facilities			X	X	X	X	
19212	1117	Unique Identification (UDI)			X	X			
19212	112	Production & Test Support			X	X			
19212	1121	Hardware			X	X			
19212	11211	First Stage			X	X			
19212	11212	Second Stage			X	X			
19212	112121	Steering Control Section (SCS)			X	X			
19212	112122	Dual Thrust Rocket Motor (DTRM)			X	X			
19212	112123	Staging Assembly			X	X			
19212	11213	Third Stage			X	X			
19212	112131	Guidance Section			X	X			
19212	1121311	Flight 3A Communications Transceiver (FLC3A) & VHF			X	X			
19212	1121312	Guidance Section Design (GASD)			X	X			
19212	1121313	Avionics Suite			X	X			

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COST AND SOFTWARE DATA REPORTING PLAN						13 REPORTS REQUIRED 27 of Appendix			
a PROGRAM	b CONTRACT	11 WBS REPORTING ELEMENTS	12a CONTRACTOR NAME	12b CONTRACT NUMBER	13 REPORTS REQUIRED 27 of Appendix				
					1 CWBS DICTIONARY	3 DD 1921 (CDR)	4 DD 1921-1 (CHR)	5 DD 1921-3 (PCR)	6 YDR FORMATS
19212	11213111	Other Av. Sube HW. Matl Only			X				
19212	11213112	Space Positioning System Address Decoder Subsystem (DAS)			X				
19212	11213113	Circuit Card Assemblies (CCAs)			X				
19212	11213114	Harness & Housing (Matl Only)			X				
19212	11213115	Other Guidance Section Hardware (Matl & only)			X				
19212	11213116	MLV Guidance Section			X				
19212	11213117	Third Stage Rocket Motor (TSRM)			X				
19212	11213118	TSRM Actuate Control System (ACS)			X				
19212	11213119	TSRM Other Hardware			X				
19212	11213120	Thrust Vector Actuator (TVA) System			X				
19212	11213121	Other HW			X				
19212	11213122	TVA Act (if necessary)			X				
19212	11213123	TSRM Integration & Test			X				
19212	11213124	TSRM Special Test Equipment (STP) Tooling			X				
19212	11213125	TSRM Engineering			X				
19212	11213126	TSRM Program Management			X				
19212	11213127	Vehicle Waftread (VW)			X				
19212	11213128	KW/rt			X				
19212	11213129	Guidance Unit (GU)			X				
19212	11213130	Sensor			X				
19212	11213131	Sensor			X				
19212	11213132	Telescope			X				
19212	11213133	DA RVS			X				
19212	11213134	Local Plane Array (LPA)			X				
19212	11213135	Other DA Hardware			X				
19212	11213136	Signal Processor (SP)			X				
19212	11213137	Other Sensor Hardware (Matl Only)			X				
19212	11213138	Sealant Design (S&T Labor Only)			X				
19212	11213139	Guidance Assy			X				
19212	11213140	Guidance & Control Processor CCA			X				
19212	11213141	Ordnance Value Driver (OVD) CCA			X				
19212	11213142	Power Converter Unit (PCU) CCA			X				
19212	11213143	MLV (HW)			X				
19212	11213144	Other Guidance Assy Hardware (Matl Only)			X				
19212	11213145	Guidance Assy Design (S&T Labor Only)			X				
19212	11213146	Other Guidance Hardware (Matl Only)			X				
19212	11213147	Guidance Unit Design (S&T Labor Only)			X				
19212	11213148	Ejector			X				
19212	11213149	Other HW Sub Hardware (Matl Only)			X				
19212	11213150	HW Sub Design (S&T Labor Only)			X				
19212	11213151	Solid State Attitude Control System (SSACS)			X				
19212	11213152	MTA & ACA Procurement			X				
19212	11213153	MTA			X				
19212	11213154	Valves			X				
19212	11213155	Other MTA Hardware (Matl Only)			X				
19212	11213156	MTA Design (S&T Labor Only)			X				
19212	11213157	ACA			X				
19212	11213158	Valves			X				
19212	11213159	Other ACA Hardware (Matl Only)			X				
19212	11213160	ACA Design (S&T Labor Only)			X				
19212	11213161	SDACS Other Hardware			X				
19212	11213162	Gas Generator			X				
19212	11213163	Other Hardware (Matl Only)			X				
19212	11213164	SDACS Other Hardware Design (S&T Labor Only)			X				
19212	11213165	SDACS Integration & Test			X				
19212	11213166	SDACS Special Test Equipment (STP) Tooling			X				
19212	11213167	SDACS Engineering			X				
19212	11213168	SDACS Program Management			X				
19212	11213169	Other HW Hardware (Matl Only)			X				
19212	11213170	HW Design (S&T Labor Only)			X				

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COST AND SOFTWARE DATA REPORTING PLAN						13 REPORTS REQUIRED BY APPLICATION				
a PROGRAM	b CONTRACT	c WBS REPORTING ELEMENTS	12a CONTRACTOR NAME	12b CONTRACT NUMBER	13 REPORTS REQUIRED BY APPLICATION					
					d CWBS DICTONARY	e DD 1921 (CDR)	f DD 1921-1 (FCR)	g DD 1921-2 (PCR)	h SRDR FORMATS	
9212	112134	Noise			X					
9212	112135	Guided Missile Assembly Unit			X					
9212	112136	Gunster			X					
9212	112137	Guided Missile Round Integration			X					
9212	1121371	Round Inert Set off (Upper Stage)			X					
9212	1121372	Guided Operations			X					
9212	1121373	FACD Operations			X					
9212	1122	Initial States			X					
9212	1123	Post Deployment Software Support			X				100596	
9212	1124	System Engineering, Production Engineering and Functional Support			X					
9212	11241	System Engineering and Configuration Management & Data Management, CM/DM			X					
9212	11242	Simulation Tools			X					
9212	11243	Logic and Reliability			X					
9212	11244	Responsible Engineering Authority Support			X					
9212	11245	Production Control and Operations Support			X					
9212	11246	End to End Distributed Development System (E2EDDS)			X					
9212	11247	Foreign Military Sales (FMS)			X					
9212	11248	Transition to Production			X					
9212	11249	Knowledge			X					
9212	112410	Life Cycle			X					
9212	112411	Other			X					
9212	1125	Program Management			X					
9212	11251	Technical PM			X					
9212	11252	Business Administration			X					
9212	11253	Quality Assurance			X					
9212	11254	Mission Assurance Implementation Plan (MAIP)			X					
9212	1126	Unique Identification (UID)			X					
9212	113	Operation & Sustainment			X					
9212	1131	Maintenance			X					
9212	11311	Depot Maintenance			X					
9212	11312	Minor Maintenance			X					
9212	11313	Reverberator			X					
9212	1132	Sustaining Support			X					
9212	11321	System Specific Training			X					
9212	11322	Support Equipment Replacement			X					
9212	11323	Sustaining Engineering & Program Management			X					
9212	11324	Other Sustaining Support			X					
9212	1133	Continuing System Improvements			X					
9212	11331	Hardware Maintenance & Modification			X					
9212	11332	Software Maintenance & Modifications			X				X	
9212	114	Disposal			X					
9212	12	Block B Guided Missile			X					
9212	121	Development			X					
9212	1211	Hardware			X					
9212	12111	Hardware Engineering			X		X	X		
9212	12112	First Stage			X		X	X		
9212	12113	Second Stage			X		X	X		
9212	12114	Steering Control Section (SCS)			X		X	X		
9212	12115	Ball Thrust Rocket Motor (CTRM)			X		X	X		
9212	12116	Staging Assemblies			X		X	X		
9212	12117	Third Stage			X		X	X		
9212	12118	Guidance Section			X		X	X		
9212	121181	Phase A Contractations Transfer (Incl Labor & Mat)			X		X	X		
9212	121182	Guidance Section Design - A&T			X		X	X		
9212	121183	CCA Design - RMS Labor			X		X	X		
9212	121184	Avionics Suite			X		X	X		
9212	1211841	Other Av Suite HW (Mat Only)			X		X	X		
9212	1211842	Social Positioning System Aides-inertial Navigation System (SAINSM) - IT Only			X		X	X		
9212	1211843	Display Card Assemblies (CAs)			X		X	X		
9212	1211845	Harness & Housing (Mat Only)			X		X	X		
9212	1211846	Other Guidance Section Hardware (Mat/Incl only)			X		X	X		
9212	1211847	Misc (Guidance Section)			X		X	X		

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COST AND SOFTWARE DATA REPORTING PLAN						13 REPORTS REQUIRED (if applicable)				
A PROGRAM	B CONTRACT	11 WBS REPORTING ELEMENTS	12a CONTRACT NAME	12b CONTRACT NUMBER	13 REPORTS REQUIRED (if applicable)					
					a CWBS DICTONARY	b DD 1821 (CDSR)	c DD 1821-1 (FCMR)	d DD 1821-2 (PCR)	e SDR FORMATS	
19212	21110	Hardware Analysis			X	X				
19212	211101	T&A System Engineering (SE)			X	X				
19212	211102	Spec. & Test Equipment (SPE)			X	X				
19212	2111021	Seeker ATE			X	X				
19212	2111022	Missile ATE			X	X				
19212	211103	Design Verification Tests (DVTs)			X	X				
19212	211104	Flight Test Grounding			X	X				
19212	211105	Production Technical Team			X	X				
19212	212	Software			X	X			X	
19212	2121	Guidance Navigation & Control			X	X	X		X	
19212	2122	Stage 3 Software			X	X	X		X	
19212	2123	Stage 3 Software			X	X	X		X	
19212	2124	Signal Processor Software			X	X	X		X	
19212	2125	Software System Integration			X	X	X		X	
19212	213	Test & Evaluation			X	X				
19212	2131	Test and Evaluation Program Management			X	X	X			
19212	2132	Test and Evaluation Systems Engineering & Integration			X	X	X			
19212	2133	Test Infrastructure			X	X	X			
19212	21331	Test Communications			X	X				
19212	21332	Operations			X	X				
19212	213321	Upgrades and Replacements			X	X				
19212	213322	HW - Testing			X	X				
19212	213323	Lab Operations			X	X				
19212	213324	Upgrades and Replacements			X	X				
19212	213325	Test Range Upgrades			X	X				
19212	2134	AB Flight Tests			X	X				
19212	21341	FTM 16			X	X	X	X		
19212	213411	Test Resources			X	X	X	X		
19212	213412	Test Planning			X	X	X	X		
19212	213413	Test Integration			X	X	X	X		
19212	213414	Test Execution			X	X	X	X		
19212	213415	Test Analysis			X	X	X	X		
19212	21342	FTM 19			X	X	X	X		
19212	213421	Test Resources			X	X	X	X		
19212	213422	Test Planning			X	X	X	X		
19212	213423	Test Integration			X	X	X	X		
19212	213424	Test Execution			X	X	X	X		
19212	213425	Test Analysis			X	X	X	X		
19212	21343	FTM 20			X	X	X	X		
19212	213431	Test Resources			X	X	X	X		
19212	213432	Test Planning			X	X	X	X		
19212	213433	Test Integration			X	X	X	X		
19212	213434	Test Execution			X	X	X	X		
19212	213435	Test Analysis			X	X	X	X		
19212	21344	FTM 21			X	X	X	X		
19212	213441	Test Resources			X	X	X	X		
19212	213442	Test Planning			X	X	X	X		
19212	213443	Test Integration			X	X	X	X		
19212	213444	Test Execution			X	X	X	X		
19212	213445	Test Analysis			X	X	X	X		
19212	21345	FTM 22			X	X	X	X		
19212	213451	Test Resources			X	X	X	X		
19212	213452	Test Planning			X	X	X	X		
19212	213453	Test Integration			X	X	X	X		
19212	213454	Test Execution			X	X	X	X		
19212	213455	Test Analysis			X	X	X	X		
19212	21346	FTM 23			X	X	X	X		
19212	213461	Test Resources			X	X	X	X		
19212	213462	Test Planning			X	X	X	X		
19212	213463	Test Integration			X	X	X	X		
19212	213464	Test Execution			X	X	X	X		
19212	213465	Test Analysis			X	X	X	X		

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UNLESS INDICATED OTHERWISE

COST AND SOFTWARE DATA REPORTING PLAN						TS REPORTS REQUIRED (K 4 4299-106)				
a PROGRAM	b CONTRACT	c1 WBS REPORTING ELEMENTS	c2 CONTRACTOR NAME	c3 CONTRACT NUMBER	TS REPORTS REQUIRED (K 4 4299-106)					
					a CWBS DICTONARY	b DD 1921 (CDRI)	c DD 1921.1 (FCHR)	d DD 1821-2 (PCR)	e SRDR FORMATS	
19212	121347	EPDR-2			X	X	X	X		
19212	121347.1	Test Resources			X	X	X	X		
19212	121347.2	Test Planning			X	X	X	X		
19212	121347.3	Test Integration			X	X	X	X		
19212	121347.4	Test Execution			X	X	X	X		
19212	121347.5	Test Analysis			X	X	X	X		
19212	1214	System Engineering, Production Engineering and Functional Support			X	X	X	X		
19212	1214.1	System Engineering and Configuration Management & Data Management			X	X	X	X		
19212	1214.2	System Design and Requirements			X	X	X	X		
19212	1214.3	Design Coordination			X	X	X	X		
19212	1214.4	Specialty Engineering			X	X	X	X		
19212	1214.5	Functional Design			X	X	X	X		
19212	1214.6	Simulation Tools			X	X	X	X		
19212	1214.7	Logistical and Reliability			X	X	X	X		
19212	1214.8	Responsibility Engineering Authority Support			X	X	X	X		
19212	1214.9	Production Control and Operations Support			X	X	X	X		
19212	1214.10	Exotic End Distributed Development System (ETEDDS)			X	X	X	X		
19212	1214.11	Foreign Military Sales (FMS)			X	X	X	X		
19212	1214.12	Transition to Production			X	X	X	X		
19212	1214.13	Consequence			X	X	X	X		
19212	1214.14	DFE Repair			X	X	X	X		
19212	1214.15	System Architecture & Analysis			X	X	X	X		
19212	1214.16	Ops			X	X	X	X		
19212	1214.17	Flight Test Engineering Services			X	X	X	X		
19212	1215	Program Management			X	X	X	X		
19212	1215.1	Technical PM			X	X	X	X		
19212	1215.2	Business Administration			X	X	X	X		
19212	1215.3	Quality Assurance			X	X	X	X		
19212	1215.4	Mission Assurance Implementation Plan (MAIP)			X	X	X	X		
19212	1216	Facilitation			X	X	X	X		
19212	1216.1	Rocket Motor Failures			X	X	X	X		
19212	1216.2	WV Facilities			X	X	X	X		
19212	1216.3	AP Up Round (AUR) Facilities			X	X	X	X		
19212	1217	Unique Identification (UID)			X	X	X	X		
19212	122	Production & Deployment			X	X	X	X		
19212	122.1	Hardware			X	X	X	X		
19212	122.1.1	Hardware Engineering			X	X	X	X		
19212	122.1.2	First Stage			X	X	X	X		
19212	122.1.3	Second Stage			X	X	X	X		
19212	122.1.3.1	Steering Control Section (SCS)			X	X	X	X		
19212	122.1.3.2	Tail Thrust Rocket Motor (TRM)			X	X	X	X		
19212	122.1.3.3	Staging Assembly			X	X	X	X		
19212	122.1.4	Third Stage			X	X	X	X		
19212	122.1.4.1	Guidance Section			X	X	X	X		
19212	122.1.4.1.1	Phase 3A Communications Transceiver and Latex 4 Math			X	X	X	X		
19212	122.1.4.1.2	Guidance Section (IAS)			X	X	X	X		
19212	122.1.4.1.3	CCA Design (RMS Labor)			X	X	X	X		
19212	122.1.4.4	Avionics Suite			X	X	X	X		
19212	122.1.4.4.1	Other Av Suite HW (Matl Only)			X	X	X	X		
19212	122.1.4.4.2	Global Positioning System & Inertial Navigation System (GINS/INS) (OT Only)			X	X	X	X		
19212	122.1.4.4.3	Circuit Card Assemblies (CCAs)			X	X	X	X		
19212	122.1.4.4.4	Harness & Housing (Matl Only)			X	X	X	X		
19212	122.1.4.4.5	Other Guidance Section Hardware (Matl Only)			X	X	X	X		
19212	122.1.4.4.6	MU (Guidance Section)			X	X	X	X		
19212	122.1.4.2	Third Stage Rocket Motor (TSRM)			X	X	X	X		
19212	122.1.4.2.1	TSRM Attitude Control System (ACS)			X	X	X	X		
19212	122.1.4.2.2	TSRM Difer Hardware			X	X	X	X		
19212	122.1.4.2.3	Thrust Vector Actuation (TVA) System			X	X	X	X		
19212	122.1.4.2.4	Other HW			X	X	X	X		
19212	122.1.4.2.5	(VA IAS) - If Necessary			X	X	X	X		
19212	122.1.4.2.6	TSRM Integration & Test			X	X	X	X		
19212	122.1.4.2.7	TSRM Special Test Equipment (SFE) Testing			X	X	X	X		
19212	122.1.4.2.8	TSRM Engineering			X	X	X	X		
19212	122.1.4.2.9	TSRM Program Management			X	X	X	X		

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PREVIOUS EDITIONS OBSOLETE

COST AND SOFTWARE DATA REPORTING PLAN						13) REPORTS REQUIRED (If Applicable)			
A PROGRAM	B CONTRACT	H WBS REPORTING ELEMENTS	12a CONTRACT/OP NAME	12b CONTRACT NUMBER	13) REPORTS REQUIRED (If Applicable)				
					c CWBS DICTIONARY	e DD 1921 (CDSR)	d DD 1971.1 (FCBR)	f DD 1831.2 (PCR)	g SRDR FORMATS
19212	122151	IRPA, Inertial FW			X				
19212	1221511	Guidance Unit (GU)			X				
19212	12215111	Sensor			X				
19212	122151111	Telescope			X				
19212	122151112	ICAR/S			X				
19212	122151121	Focal Plane Array (FPA, RVS)			X				
19212	122151122	Other DA Hardware RVS			X				
19212	12215113	Misc SW			X				
19212	12215114	Other Sensor Hardware (Mat'l Only)			X				
19212	12215115	Sensor Design &T (Labor Only)			X				
19212	1221512	Avionics Assembly			X				
19212	12215121	Avionics Assembly Boeg			X				
19212	12215122	Encoder CDA			X				
19212	1221513	Advanced Signal Processor (ASP)			X				
19212	1221514	Other GU Hardware (Mat'l Only)			X				
19212	1221515	Guidance Unit Design &T (Labor Only)			X				
19212	1221516	Guidance Unit/DAGS electrical Support			X				
19212	122152	Ejector			X				
19212	1221521	Ejector Boeg			X				
19212	1221522	Ejector Direct Support			X				
19212	122153	Harnesses / Antenna			X				
19212	1221531	Antenna			X				
19212	1221532	Harnesses			X				
19212	122154	Thrustable Clvert Attitude Control System (TACS)			X				
19212	1221541	Clvert Thrusters			X				
19212	12215411	Actuator hardware			X				
19212	12215412	Thrusters			X				
19212	12215413	Other Thruster Hardware (Mat'l Only)			X				
19212	12215414	Thruster Design &T (Labor Only)			X				
19212	1221542	ACS Thrusters			X				
19212	12215421	Actuator Hardware			X				
19212	12215422	Thrusters			X				
19212	12215423	Other Thruster Hardware (Mat'l Only)			X				
19212	12215424	Thruster Design &T (Labor Only)			X				
19212	1221543	Gas Generators			X				
19212	1221544	Other TACS Hardware (Mat'l Only)			X				
19212	1221545	Final Assembly			X				
19212	1221546	TACS Integration & Test			X				
19212	1221547	TACS Special Test Equipment (S&T) Tooling			X				
19212	1221548	TACS Engineering Studies			X				
19212	1221549	TACS Engineering			X				
19212	12215410	TACS Program Management			X				
19212	122155	Other HW Hardware - Mat'l Only			X				
19212	122156	HW Design &T (Labor Only)			X				
19212	12216	Misc SW			X				
19212	12217	Guided Missile Assembly Unit			X				
19212	12218	Launcher			X				
19212	12219	Guided Missile Round Integration			X				
19212	122191	Round inert Section - Upper Stage			X				
19212	122192	Launcher Operations			X				
19212	122193	FACD Operators			X				
19212	122110	Hardware Analysis			X				
19212	1221101	F&A System Engineering (SE)			X				
19212	1221102	Special Test Equipment (STE)			X				
19212	1221103	Seeker ATE			X				
19212	1221104	Misc ATE			X				
19212	1221105	Design Verification Tests (DVTs)			X				
19212	1221106	Flight Test Round Tests			X				
19212	1221107	Program Technical Team			X				
19212	1222	Initial Scales			X				
19212	1223	Post Deployment Software Support			X				X
19212	1224	System Engineering Production Engineering and Functional Support			X				
19212	12241	System Engineering and Config. Status Management & Data Management (CM/CI)			X				
19212	12242	Simulation Tools			X				

DD FORM 2784 10/78

REV. 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

MISSILE DEFENSE AGENCY

SM-3 All Up Round Processing &
Recertification Requirements
MD57579 Rev D
HQ0276-11-C-0002

Attachment 12

Pages 306 - 307

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Under Exemption (b)(4)

Signature Sheet

Prepared By: (b)(6) 1/20/2011
(Date)

Concurred By: (b)(6) 1/20/2011
(Date)

Concurred By: (b)(6) 2/1/2011
(Date)

Concurred By: (b)(6) 2/3/11
(Date)

Concurred (b)(6) 2/22/11
(Date)

Concurred (b)(6) 24 FEB 2011
(Date)

Concurred (b)(6) 2/17/11
(Date)

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Under Exemption (b)(4)



GC

**DEPARTMENT OF DEFENSE
MISSILE DEFENSE AGENCY
7100 DEFENSE PENTAGON
WASHINGTON, DC 20301-7100**

JUL 27 2009

POLICY MEMORANDUM NO. 51

MEMORANDUM FOR DEPUTIES AND STAFF DIRECTORS, MDA

SUBJECT: Organizational Conflicts of Interest

This memorandum establishes the Missile Defense Agency's policies pertaining to organizational conflicts of interest (OCIs).

OCIs can deprive the Agency of the independent, objective advice of its supporting contractors. OCIs occur when a contractor may be unable to provide impartial advice or assistance, when its objectivity in performing a contract is impaired, or when it may obtain an unfair competitive advantage. A contractor can obtain an unfair competitive advantage by obtaining access to non-public information (to include proprietary, budgetary, and acquisition planning information) or when it is in a position to favor its own products or services. Key OCI principles have been promulgated in Federal Acquisition Regulation (FAR) Subpart 9.5 and have been enforced by protest decisions of the Government Accountability Office and the Court of Federal Claims. Consequently, it is critical that the Agency adhere to these processes and procedures in the FAR and this policy.

As a general policy, contractors which provide advisory and assistance services to the Agency, particularly in the engineering, acquisition support, and the quality functional areas, cannot develop or support the development of the Agency's research and development (R&D) efforts. This separation of contractual responsibilities is critical to ensuring the Agency obtains the independent, objective advice it requires, particularly in establishing requirements for our major R&D efforts and in evaluating the performance of contractors which perform those requirements. While some contractors may be able to provide subcontracting services to the Agency, their prime contractors will be required to demonstrate that the involvement of these subcontractors will not constitute an OCI or place them in a position of evaluating the services or performance of our developmental contractors.

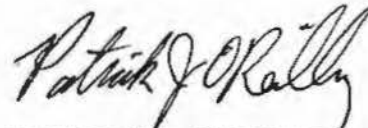
As the head of the Agency, I retain the authority to grant waivers of bias-type OCIs. I intend to exercise that authority in very limited circumstances and only when in the government's interest. Generally, temporary OCI waivers will be considered on a case-by-case basis for no more than six months to permit contractors to divest themselves of existing contracts or business units after contract award.

To preserve the integrity of our source selections, all participants shall be free from personal financial interests, to include those of members of their household, in any competitors. Contractors and members of Federally Funded Research and Development Centers that will have access to proprietary information shall similarly have no financial interests in any of the competitors and be free of all OCIs.

All Agency personnel shall take appropriate measures to prevent our supporting contractors from obtaining unfair competitive advantages by virtue of their access to non-public information. Discussions and development of acquisition strategy will be limited to an appropriate number of personnel. Contractors will be required to establish internal firewalls and organizational separations to ensure that only employees supporting the Agency have access to nonpublic and sensitive Agency information, and that such information is not provided to other contractor employees or officials, unless the information is available publicly or its transmittal is authorized by the supporting contracting officer.

As the FAR vests responsibility for identifying, mitigating, and resolving OCIs in our contracting officers, I expect all personnel to coordinate OCI issues with respect to specific procurements with their supporting contracting officers and legal counsel.

My point of contact for specific issues regarding OCIs in the Office of General Counsel is (b)(6) who can be reached at (b)(6) or (b)(6)



PATRICK J. O'REILLY
Lieutenant General, USA
Director

MISSILE DEFENSE AGENCY

Quality and Reliability Provisions

HQ0276-11-C-0002

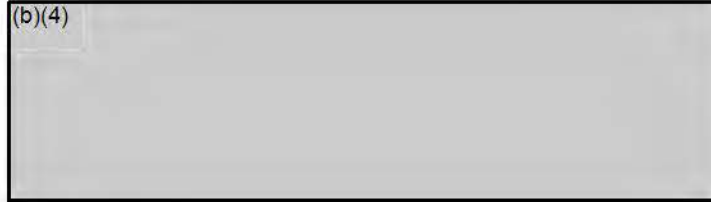
Attachment 14

34008

(b)(4)



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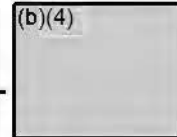


Approved by:

(b)(6)



(b)(4)

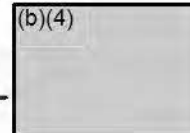


Submitted by:

(b)(6)

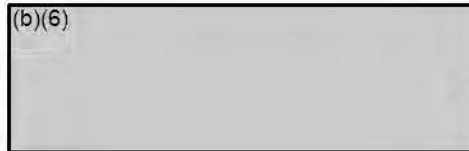


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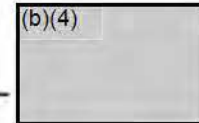


Reviewed by:

(b)(6)



(b)(4)

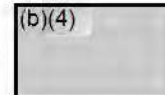


Prepared by:

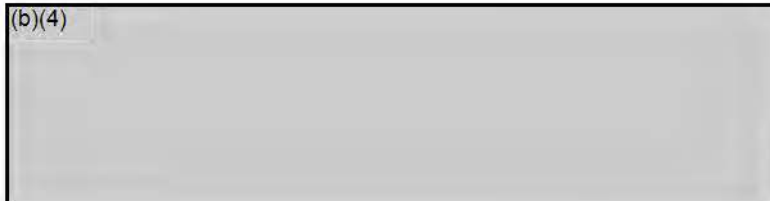
(b)(4)



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(b)(4)

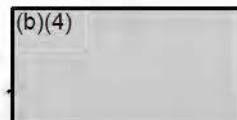


Approved by:

(b)(6)



(b)(4)



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Under Exemption (b)(4)

MISSILE DEFENSE AGENCY

ECP Leader Instructions

HQ0276-11-C-0002

Attachment 15



DEPARTMENT OF THE NAVY

PROGRAM EXECUTIVE OFFICE
THEATER SURFACE COMBATANTS PMS 422
TECHNICAL REPRESENTATIVE
TUCSON, AZ 85734-1337

IN REPLY REFER TO

8800
Ser SMTR0226
6 February 2002

MEMORANDUM

From: PEO TSC Program Manager's Representative, Tucson
To: PEO TSC TECHREP, Tucson
Subj: ECP Leader Instruction
Ref: (a) STANDARD Missile Configuration Management Plan
Encl: (1) Raytheon's Configuration Change Process.

1.0 PURPOSE:

The purpose of this instruction is to establish the Engineering Change Proposal (ECP) Leader process by which the TechRep ECP Leader will facilitate major change review for approval. The ECP Leader will focus government involvement by serving as the single, on-site, government Point Of Contact (POC) for the change, minimizing the administrative burden on the contractor's engineering department.

1.1 The ECP Leader will team with the contractor's ECP leader to coordinate and expedite appropriate government technical input to ensure that a thorough review has been accomplished. The final output of this activity is to provide the STANDARD Missile Configuration Manager (CM) with a completed change package ready for approval.

1.2 The ECP Leader will function as part of the Production Support IPT's System Engineering Working Group.

1.3 Key Benefits:

1. Reviews aligned with production requirements.
2. Early definition of required testing, analysis, and discipline reviews.
3. Reduced change processing time.
4. Early definition of agreed upon exit criteria.
5. "Requirements Creep" elimination.

6. Adequate supporting analytic and test data. (Justification Memoranda)
7. Focused government support.
8. Reduced number of revisions to change packages.
9. Improve the ECP and ECP review quality.

2.0 BACKGROUND:

The ECP Leader process is the result of government and contractor discussions and process studies. It is an evolutionary change in the contractor and government's CM processes and is created to expedite and improve the Class I change process.

Historically, the review cycle has taken months and in some cases years to complete. Review periods have not always been representative of design change complexity. Unnecessarily long review cycles for some technically complex changes led to design changes that were obsolete when implemented into production.

This process will facilitate early dialog between the NAVY community and the contractor. This enables the NAVY community to participate in a proposed change from its infancy, leading to a smoother transition from concept to implementation.

3.0 SCOPE:

This instruction defines the roles and responsibilities of the ECP Leader and their relationships with reviewing activities. The ECP leader will facilitate technical review of Request For Deviations (RFDs), Request For Waivers (RFWs), Class I ECPs and Value ECPs. The ECP Leader process applies to all changes that affect STANDARD Missile, test equipment, and system interfaces for both US NAVY and international customers. This process shall be implemented for changes to all STANDARD Missile variants currently in-service and in production.

3.1 Facilitating review of major design changes will include the following critical engineering discipline reviews:

- Safety
- Reliability
- Systems Engineering
- Interchangeability and Interfaces
- Testability
- Integrated Logistic Support (ILS)
- Configuration Management

4.0 INSTRUCTION FOR THE ECP LEADER PROCESS:

Every Class I change originated by the STANDARD Missile contractor shall be processed in conformance with the STANDARD Missile Configuration Management Plan (Reference a). The ECP Leader will enter the process at the Configuration Review Board

(CRB) after an Engineering Change Request (ECR) or Change Notice (CN) is created. See Enclosure (1).

4.1 The contractor ECP leader and the TechRep ECP Leader shall create a Project Plan for all Class I ECP's. The ECP Leader will include input from government reviewing activities and ensure that the Project Plan follows contractor-government agreed upon guidelines. Typical Project Plans shall include:

- Statement Of Work (SOW)
- Assumptions
- Budget and Funding Source (not to be widely disseminated)
- Schedule (Milestones, Production Cut in, etc)
- Integrated Test and Evaluation Plan (ITEP)
 - o Qualification Test Plan
 - o Flight test recommendation
- Contractor and NAVY Resources
 - o GFE
 - o NAVY Labs
- Corresponding Test Equipment changes
- Documentation (Configuration Management)
- Defined ECP Approval Exit Criteria
- Effectivity (SM Variants Affected)
- Integrated Logistic Support (ILS) analysis

4.2 The ECP Leader shall be the liaison between the contractor's ECP leader and the NAVY Project Plan implementation. For each Class I ECP being reviewed, the ECP Leader shall be the contractor's single, government point of contact.

4.3 The ECP Leader shall organize government resources necessary to complete the Project Plan and review the ECP package. This may entail creating small working groups.

4.4 The ECP Leader shall track the review status of all tier 1-documentations (TDP) and the test and analysis reports agreed to in the ITEP. See figures below for guidance.

Table No.	Title	Resp. Engineer	Test Plan	Test Procedure	Test Report	Test Status	ITEP			Remarks	
							Input Rcvd?	Input Incorp?	Reviewed?		
Table 1	Required Test Assets	(b)(6)									
Component											
Table 2	Power Hybrid Qualification Tests										
Table 3	AgZn Battery Qualification Tests			NSWC/CAD-6002-TPL-436B			Complete				
Table 4	SCS Battery Qualification Tests										
Table 5	TVA Battery Qualification Test										
Table 6	SCS Structural Test						In Work				
Table 7	Nuclear Survivability - Vulnerability Tests			In work by NSWC	same as test plan		In Work				
Hardware											
Table 8	Summary of SCS Qualification Tests vs. Temperatures										
Table 9	SCS Qualification Testing			PreI QTS-SD/2254/13/QS			In Work				
Table 10	Summary of TVA Qualification Tests vs. Temperatures										
Table 11	TVA Qualification Test						In Work				
Table 12	Qualification Alt Closure Assembly Test										
Table 13	Developmental Static Fire 1						In Work by Layton				
Table 14	Developmental Static Fire 2						In Work				
Table 15	Qualification Static Fire 1										
Table 16	Qualification Static Fire 2										
Table 17	SCS Live Battery Test										
Table 18	TVA Live Battery Test										
Table 19	Live Battery Test with IOM						In Work				
Table 20	Fin/Actuator Resonance Test										
Software											Redline received 12/14/2000
Table 21	Software Unit Test. Tactical Mode										
Table 22	Software Fault Insertion Test. Tactical Mode						Nearly Complete				
Table 23	Software Regression Test. Tactical Mode						In Work				
Table 24	MSFR Software Test. Test Mode						In Work				
Table 25	ESD Software Test. Test Mode										
Table 26	AUR Live Battery Software Test. Test Mode					In Work					
E3											
Table 27	Hazards Of Electromagnetic Radiation To Ordnance (HERO) Test										

Figure 2. Example ITEP Tracking Table.

5.0 EFFECTIVITY

This instruction shall be in effect from the date of issue until rescinded by the issuing authority.

6.0 POC

The STANDARD Missile Program Manager's Technical Representative shall be responsible for this instruction and the assignment of ECP Leaders.

(b)(6)

A rectangular box with a black border, filled with a light gray color, indicating a redacted section of the document. The text "(b)(6)" is located in the top-left corner of the box.

7.0 ENCLOSURES: (b)(4)

(b)(4)



Attachment 16
Allotment of Funds Table

CLIN	Mod	Date Funded	FY Dollars	Cost Amount	Fee Amount	Earned AF	Total Amount	ACRN	CLIN Ceiling
0003 (CPAF)				(b)(4)					(b)(4)
000301	Award	28-Feb-11	FY11					AA	
000302	Award	28-Feb-11	FY11					AB	
000302	Award	28-Feb-11	FY11/12					AB	
000303	P00001	18-Mar-11	FY11/12					AD	
000304	P00001	18-Mar-11	FY11					AF	
000305	PZ0001	3-Jun-11	FY11					AG	
De-Ob P00008									
000306	P00004	13-Jul-11	FY11					AH	
De-Ob P00008									
000307	P00004	13-Jul-11	FY11					AJ	
000308	P00005	2-Aug-11	FY11					AK	
000309	P00005	2-Aug-11	FY11					AL	
000310	P00005	2-Aug-11	FY11					AM	
Unearned Award	P00022	2-Aug-11	FY11					AM	
000311	P00005	2-Aug-11	FY11					AN	
000312	P00005	2-Aug-11	FY11					AP	
000313	P00005	2-Aug-11	FY11					AQ	
000314	P00005	2-Aug-11	FY11					AR	
000315	P00006	29-Sep-11	FY11					AS	
Unearned Award	P00022	29-Sep-11	FY11					AS	
000316	P00007	28-Oct-11	FY12					AT	
000317	P00009	8-Dec-11	FY11					AW	
000318	P00010	11-Jan-12	FY12					AY	
000316	P00012	7-Feb-12	FY12					AT	
000319	P00031	28-Feb-13	FY12					AZ	
000320	P00016	5-Mar-12	FY12					BA	
000321	P00018	26-Mar-12	FY12					AX	
000321	P00064	30-Jun-14						AX	
000322	P00020	6-Jun-12	FY12					BB	
000322	P00064	30-Jun-14						BB	
000323	P00020	6-Jun-12	FY12					AX	
000323	P00064	30-Jun-14						AX	
000324	P00031	28-Feb-13	FY12					BC	
000325	P00021	20-Jun-12	FY12	AX					
000325	P00064	30-Jun-14		AX					
000326	P00021	20-Jun-12	FY12	AX					
000326	P00064	30-Jun-14		AX					
000327	P00021	20-Jun-12	FY12	AX					
000327	P00064	30-Jun-14		AX					

Attachment 16
Allotment of Funds Table

CLIN	Mod	Date Funded	FY Dollars	Cost Amount	Fcr Amount	Earned AF	Total Amount	ACRN	CLIN Ceiling
000328	P00032	4-Mar-13	FY12	(b)(4)				AX	
000329	P00026	25-Oct-12	FY13					BF	
000329	P00029	12-Dec-12	FY13					BF	
000329	P00064	30-Jun-14						BF	
000329	P00030	26-Dec-12	FY13					BF	
000329	P00045	8-Aug-13	FY13					BF	
000329	P00064	30-Jun-14						AX	
000329	P00087	18-Aug-99	FY13					BF	
000330	P00026	25-Oct-12	FY13					BG	
000331	P00034	14-Mar-13	FY13					BK	
000332	P00034	14-Mar-13	FY12					BL	
000332	P00064	30-Jun-14						BL	
000333	P00039	3-Jun-13	FY13					BN	
000333	P00064	30-Jun-14						BN	
000334	P00048	28-Aug-13	FY12					BA	
000334	P00064	30-Jun-14						BA	
000335	P00053	24-Sep-13	FY12					BA	
000335	P00064	30-Jun-14						BA	
000336	P00053	24-Sep-13	FY12					BE	
000336	P00064	30-Jun-14						BE	
000337	P00053	24-Sep-13	FY12					BR	
000337	P00064	30-Jun-14						BR	
000338	P00053	24-Sep-13	FY13					BF	
000338	P00059	6-Feb-14	FY13					BF	
000338	P00061	25-Mar-14	FY13					BF	
000338	P00062	6-May-14	FY13					BF	
000338	P00066	15-Jul-14	FY 13					BF	
000339	P00053	24-Sep-13	FY13					BK	
000339	P00061	25-Mar-14	FY13					BK	
000339	P00062	6-May-14	FY13					BK	
000339	P00066	15-Jul-14	FY13					BK	
000340	P00053	24-Sep-13	FY13					BG	
000340	P00066	15-Jul-14	FY 13					BG	
000341	P00056	11-Dec-13	FY14					BX	
000341	P00061	18-Mar-14	FY14					BX	
000341	P00066	15-Jul-14	FY14					BX	
000341	P00087	18-Aug-99	FY14					BX	
000342	P00061	18-Mar-14	FY14					CC	
000342	P00066	15-Jul-14	FY14					CC	
000342	P00070	3-Sep-14	FY14					CC	

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Attachment 16
Allotment of Funds Table

CLIN	Mod	Date Funded	FY Dollars	Cost Amount	Fee Amount	Earned AF	Total Amount	ACRN	CLIN Ceiling					
000343	P00063	5-Jun-14	FY14	(b)(4)				BZ	(b)(4)					
000343	P00068	18-Aug-14	FY14											
000344	P00071	16-Sep-14	FY13											
000344	P00072	23-Sep-14	FY13											
000345	P00071	16-Sep-14	FY13											
000346	P00071	16-Sep-14	FY13											
000347	P00074	13-Nov-14	FY15											
000347	P00087	18-Aug-99	FY15											
000348	P00076	29-Dec-14	FY-1415											
000349	P00081	30-Mar-15	FY14											
CLIN 0003 Total:														
0006 (CPAF)												Original Ceiling		
												Reduction in Ceiling		
												Revised Ceiling		
000601	P00017	14-Mar-12	FY12	(b)(4)				AX	(b)(4)					
000601	P00087	18-Aug-99	FY12											
000602	P00026	25-Oct-12	FY13											
000602	P00064	30-Jun-14												
000603	P00037	25-Apr-13	FY13											
000603	P00064	30-Jun-14												
000604	P00050	28-Aug-13	FY12											
000604	P00087	18-Aug-99	FY 12											
000605	P00048	28-Aug-13	FY12											
000605	P00064	30-Jun-14												
000606	P00050	28-Aug-13	FY12											
000606	P00064	30-Jun-14												
000607	P00051	10-Sep-12	FY13											
000607	P00064	30-Jun-14												
000608	P00056	6-Dec-13	FY14											
000608	P00064	30-Jun-14												
000609	P00059	6-Feb-14	FY14											
000609	P00064	30-Jun-14												
000609	P00061	18-Mar-14	FY14											
000609	P00064	30-Jun-14												
000609	P00087	18-Aug-99	FY 14											
000610	P00083	28-Apr-15	FY15											
000610	P00087	18-Aug-99	FY 15											
Realign Ceiling to CLIN 0023	P00088								(b)(4)					

Attachment 16
Allotment of Funds Table

CLIN	Mod	Date Funded	FY Dollars	Cost Amount	Fee Amount	Earned AF	Total Amount	ACRN	CLIN Ceiling
Realign Ceiling to CLIN 0024	P00086	22-Jul-15		(b)(4)					
CLIN 0006 Total									
0008 (CPAF)							Original Ceiling Reduction in Ceiling Revised Ceiling		(b)(4)
000801	P00033	7-Mar-13	FMS	(b)(4)					
000801	P00064	30-Jun-14							
000801	P00087	29-Jul-15	FMS						
000802	P00040	10-Jun-13	FMS						
000802	P00064	30-Jun-14							
000802	P00048	28-Aug-13	FMS						
000802	P00087	29-Jul-15	FMS						
000803	P00043	30-Jul-13	FMS						
000803	P00065	2-Jul-14	FMS						
000803	P00080	12-Mar-15	FY 15						
000803	P00087	29-Jul-15	FMS						
000804	P00060	28-Feb-14	FMS						
000804	P00075	9-Dec-14	FMS						
000805	P00084	14-May-15	FMS						
Realign Ceiling to CLIN 0024	P00086	22-Jul-15							
CLIN 0008 Total									
0010 (CPIF)									(b)(4)
001001	P00009	8-Dec-11	FY11						
001002	P00009	21-Dec-11	FY12						
001002	P00011	25-Jan-12	FY12						
001002	P00063	3-Jun-14	FY12						
001003	P00020	6-Jun-12	FY12						
001003	P00036	1-Apr-13	FY12						
001004	P00026	25-Oct-12	FY13						
001001	P00043	30-Jul-13	FY13						
001002	P00045	8-Aug-13	FY13						
001002	P00043	30-Jul-13	FY13						
001002	P00043	30-Jul-13	FY13						
001007	P00047	23-Aug-13	FY13						

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Allotment of Funds Table

CLIN	Mod	Date Funded	FY Dollars	Cost Amount	Fee Amount	Earned AF	Total Amount	ACRN	CLIN Ceiling				
001008	P00048	28-Aug-13	FY12	(b)(4)				BA					
001008	P00053	24-Sep-13	FY12					BA					
001009	P00048	28-Aug-13	FY12					BR					
CLIN 0010 Total:													(b)(4)
0015 (CPAF)													
001501	P00009	8-Dec-11	FY11					AV					
001502	P00014	9-Feb-12	FY12					AX					
001503	P00020	6-Jun-12	FY12					AX					
001503	P00036	1-Apr-13	FY12					AX					
001504	P00026	25-Oct-12	FY13					BF					
001504	P00064	30-Jun-14						BF					
001504	P00045	8-Aug-13	FY13					BF					
001504	P00046	15-Aug-13	FY13					BF					
001504	P00064	30-Jun-14						BF					
001504	P00054	18-Nov-13	FY13					BF					
001504	P00055	27-Nov-13	FY13					BF					
001504	P00056	11-Dec-13	FY13					BX					
001505	P00047	23-Aug-13	FY13					BE					
001505	P00064	30-Jun-14						BE					
001505	P00049	30-Aug-13	FY12					BE					
001505	P00064	30-Jun-14						BE					
001506	P00048	28-Aug-13	FY12					BA					
001506	P00064	30-Jun-14						BA					
001507	P00056	11-Dec-13	FY14					BX					
001507	P00057	20-Dec-13	FY14					BX					
001507	P00064	30-Jun-14						BX					
001507	P00087	18-Aug-99	FY14					BX					
CLIN 0015 Total:													(b)(4)
0017 (CPFF)													
001701	Award	28-Feb-11	FY11					AC					
001702	P00001	18-Mar-11	FY11/12					AE					
001703	P00009	21-Dec-11	FY12					AX					
001703	P00011	25-Jan-12	FY12					AX					
001704	P00020	6-Jun-12	FY12					AX					
001705	P00025	24-Sep-12	FY12					BE					
001706	P00025	24-Sep-12	FY12					BA					
001707	P00025	24-Sep-12	FY12					BE					

Attachment 16
Allotment of Funds Table

CLIN	Mod	Date Funded	FY Dollars	Cost Amount	Fee Amount	Earned AF	Total Amount	ACRN	CLIN Ceiling
001708	P00025	24-Sep-12	FY12	(b)(4)				BE	(b)(4)
001709	P00026	25-Oct-12							
001709	P00045	8-Aug-13	FY13						
001710	P00042	3-Jul-13	FY12						
001711	P00048	28-Aug-13	FY12						
CLIN 0017 Total:									
0019 (CPAF)									
001901	P00018	21-Mar-12	FY12						
001901	P00035	19-Mar-13	FY12						
001902	P00023	3-Aug-12	FMS						
001902	P00064	30-Jun-14							
001902	P00087	18-Aug-99	FMS						
001903	P00037	25-Apr-13	FY13						
001903	P00053	19-Sep-13	FY13						
001904	P00042	3-Jul-13	FY13						
001904	P00064	30-Jun-14							
001905	P00056	11-Dec-13	FY14						
001905	P00064	30-Jun-14							
001906	P00058	14-Jan-14	FY14						
001906	P00064	30-Jun-14							
001907	P00077	12-Feb-14	FY 15						
001907	P00087	18-Aug-99	FY 15						
CLIN 0019 Total:									
0023									
002301	P00044	6-Aug-13							
002302	P00068	14-Aug-14							
002303	P00085	22-Jun-15							
CLIN 0023 Total:									
0024									
002401	P00086	20-Jul-15							
CLIN 0023 Total:									

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Allotment of Funds Table

CLIN	Mod	Date Funded	FY Dollars	Cost Amount	Fee Amount	Earned AF	Total Amount	ACRN	CLIN Ceiling
CONTRACT TOTAL:				(b)(4)					
AWARD FEE							Total Contract Ceiling	(b)(4)	
							Running Funded Total		
							Remaining Ceiling		
Period	Date	Award Fee Pool	Award Fee Earned						
1	28-Feb-11 - 30-Sep-11	(b)(4)							
2	1-Oct-11 - 31-May-12								
3	1-June-12 - 31-May-13								
4	1-June-13 - 31-May-14								
5	1-June-14 - 31-May-15								
6	1-June-15 - 30-September-15								