SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

1. SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by \$3,705,600.00 from \$1,734,410,500.62 to \$1,738,116,100.62.

SUBCLIN 0017AA:

MM: 21 1 2040 5L 5L68 P172419E555L 255Y 4M1J741400 S01021 4M1J741400/14MJLE/4M5 was increased by \$1,618,600.00 from \$0.00 to \$1,618,600.00

The contract ACRN MM has been added.

Target Cost, Target Fee, and Total for the above increase of \$1.618,600 is distributed as follows and includes an increase in target cost of cost and cost and facilities capital cost of money) and an increase in target incentive fee of cost and target cost less facilities capital cost of money.

(b)4)

Target Cost
Target Fee
Total \$1,618,600

MN: 21 1 2040 5L 5L68 P172419E555L 255Y 4M1J741300 S01021 4M1J741300/14MJLE/4M5 was increased by \$2,087,000.00 from \$0.00 to \$2,087,000.00

The contract ACRN MN has been added.

Target Cost, Target Fee, and Total for the above increase of \$2.087,000 is distributed as follows and includes an increase in target cost of money) and an increase in target incentive fee of the property of target cost less facilities capital cost of money.

(b)(4)

Target Cost
Target Fee
Total \$2,087,000

IMPLEMENTATION OF AND EXPLANATION OF THE RELATIONSHIP OF THE LIMITATION OF FUNDS (LOF) CLAUSE TO FEE OBLIGATIONS, subparagraph c., is revised to read as follows:

SUBCLIN 0017AA: CUMULATIVE THIS **PRIOR MODIFICATION** TOTAL* (1) Amount Required for Full Funding, Including Fee: \$1,578,737,155 \$ 1,578,737,155 (2) Amount Allotted Under the LOF Clause for Payment of Costs: (3) Amount Separately Obligated for Payment of Fee: (4) Total Amount Allotted and Obligated: \$1,509,072,309.26 \$1,512,777,909.26 \$3,705,600 (5) Net Amount Required for Full Funding (\$3,705,600) \$ 69,664,845.74 \$ 65,959,245.74

- * These figures take into consideration the negotiated total value of SubCLIN 0017AA (This does not include SubCLIN 17AH)
- 2. The following is an update to Modification P00234 showing a summary of funding by ACRN through Modification P00237:

<u>ACRN</u>	<u>FUNDING</u>
AA	440,100.00
AB	2,298,235.00
AC	17,832,987.00
AD	0.00
AE	7,500,000.00
AF	3,300,000.00
AG	17,192,400.00
AH	700,000.00
AJ	200,000.00
AK	85,000.00
AL	45,000.00
AM	17,045,000.00
AN	5,800.00
AP	20,779,000.00
AQ	105,000.00
AR	35,000.00
AS	0.00
AT	6,984,678.52
AU	7,970,000.00
AV	0.00
AW	100,000.00
AX	3,396,000.00
AY	550,000.00
AZ	19,412,000.00
BA	24,527,878.00
BB	146,000.00
BC	72,000.00
BD	85,000.00
BE	100,000.00
BF	100,000.00
BG	1,975,321.00
BH	38,018,908.00
BJ	7,896,673.34
BK	260,000.00
BL	0.00
BM	125,000.00
BN	103,000.00
BP	10,199,288.50
BU	350,000.00
BV	9,000.00

	04.006.000.00
BW	84,896,852.00
BX	1,146,000.00
BY	3,880,000.00
BZ	190,000.00
KL	118,250.00
KM	192,793,000.00
KN	0.00
KQ	92,811.00
KR	0.00
KS	0.00
KT	386,377,998.00
KU	2,203,183.00
KV	65,000.00
KW	20,000.00
KX	60,000.00
KY	25,000.00
KZ	25,000.00
LA	13,508.00
LB	12,500.00
LC	200,000.00
LD	7,943,648.00
LE	1,173,850.00
LF	10,000.00
LG	62,000.00
LH	400,000.00
LJ	7,476.00
LK	\$281,575,897.00
LL	\$173,798.00
LM	\$1,410,376.00
LN	\$630,061.00
LP	\$83,200.00
LQ	\$235,566.00
LR	\$125,000.00
LS	\$6,069,616.00
LT	\$530,377.00
LU	\$9,100,000.00
LV	\$1,957,265.00
LW	\$255,567.00
LX	\$68,000.00
LY	\$264,135,933.26
LZ	\$1,751,384.00
MA	\$2,982,442.00
MB	\$375,000.00
MC	\$2,283,481.00
MD	\$8,573.00
ME	\$0.00
MF	\$261,492,519.00
MG	\$6,262,095.00
MH	\$213,390.00
MJ	\$858,495.00
1 71J	₩0.00 +,00.00

MK	\$56,076.00
ML	\$116,044.00
MM	\$1,618,600.00
MN	\$2,087,000.00

3. The following is an update to Modification P00234 showing a summary of funding by CLIN by ACRN through Modification P00237:

CLIN	ACRN	FUNDING AMT	CLIN TOTAL
CLIN 0001	AA	440,100.00	
CLIN 0001	AD	0.00	
			440,100.00
CLIN 0003	AB	2,298,235.00	
CLIN 0003	AC	17,832,987.00	
CLIN 0003	AD	0.00	
CLIN 0003	AE	7,500,000.00	
CLIN 0003	AF	3,300,000.00	
CLIN 0003	AG	17,192,400.00	
CLIN 0003	AH	700,000.00	
CLIN 0003	AM	17,045,000.00	
CLIN 0003	AN	5,800.00	
CLIN 0003	AP	20,779,000.00	
CLIN 0003	AS	0.00	
CLIN 0003	AT	6,984,678.52	
CLIN 0003	AW	100,000.00	
CLIN 0003	AY	550,000.00	
			94,288,100.52
CLIN 0005	ВА	24,527,878.00	
CLIN 0005	BB	146,000.00	
CLIN 0005	BC	72,000.00	
CLIN 0005	BD	85,000.00	
CLIN 0005	BE	100,000.00	
CLIN 0005	BF	100,000.00	
CLIN 0005	BG	1,975,321.00	
CLIN 0005	вн	38,018,908.00	
CLIN 0005	BL	0.00	
CLIN 0005	BZ	0.00	
			65,025,107.00
CLIN 0007AA	BP	10,199,288.50	
			10,199,288.50
CLIN 0009AA	AQ	45,106.00	
CLIN 0009AA	AV	0.00	
CLIN 0009AA	BK	256,545.00	
		,	

CLIN 0009AA	BM	125,000.00	
CLIN 0009AA	BN	21,315.00	
			447,966.00
CLIN 0009AB	AJ	200,000.00	
CLIN 0009AB	AK	85,000.00	
CLIN 0009AB	AL	45,000.00	
CLIN 0009AB	AQ	59,894.00	
CLIN 0009AB	AR	35,000.00	
CLIN 0009AB	BK	3,455.00	
CLIN 0009AB	BN	81,685.00	
CLIN 0009AB	B U	350,000.00	
CLIN 0009AB	BV	9,000.00	
			869,034.00
CLIN 0013	AU	7,970,000.00	
CLIN 0013	AX	3,396,000.00	
CLIN 0013	AY	0.00	
CLIN 0013	AZ	19,412,000.00	
CLIN 0013	ВЈ	7,896,673.34	
CERTOOLS	D .	7,070,073.3	38,674,673.34
			30,071,0131
CLIN 0017	BW	0.00	
CLIN 0017	KM	0.00	
			0.00
CLIN 0017AA	ВУ	3,880,000.00	
CLIN 0017AA	BX	1,146,000.00	
CLIN 0017AA	BW	84,896,852.00	
CLIN 0017AA	BZ	0.00	
CLIN 0017AA	KM	192,793,000.00	
CLIN 0017AA	KN	0.00	
CLIN 0017AA	KQ	66,151.00	
CLIN 0017AA	KS	0.00	
CLIN 0017AA	KT	386,204,200.00	
CLIN 0017AA	KU	2,203,183.00	
CLIN 0017AA	KY	0.00	
CLIN 0017AA	LC	200,000.00	
CLIN 0017AA	LD	7,943,648.00	
CLIN 0017AA	LE	0.00	
CLIN 0017AA	LH	400,000.00	
CLIN 0017AA	LJ	7,476.00	
CLIN 0017AA	LK	281,575,897.00	
CLIN 0017AA	LQ	235,566.00	
CLIN 0017AA	1.0	6.060.616.00	
CLIN 0017AA	LS	6,069,616.00	
CLIN OUT /AA	LS LT	530,377.00	
CLIN 0017AA			

CLIN 0017AA	LW	\$255,567.00	
CLIN 0017AA	LX	\$68,000.00	
CLIN 0017AA	LY	\$264,135,933.26	
CLIN 0017AA	MB	\$375,000.00	
CLIN 0017AA	MC	\$2,283,481.00	
CLIN 0017AA	MD	\$8,573.00	
CLIN 0017AA	ME	\$0.00	
CLIN 0017AA	MF	\$261,492,519.00	
CLIN 0017AA	MH	\$213,390.00	
CLIN 0017AA	MJ	\$858,495.00	
CLIN 0017AA	MK	\$56,076.00	
CLIN 0017AA	ML	\$116,044.00	
CLIN 0017AA	MM	\$1,618,600.00	
CLIN 0017AA	MN	\$2,087,000.00	
		=	1,512,777,909.26
		<u>e</u>	
			
CLINI 0017AD	KL	118 250 00	
CLIN 0017AB	KL.	118,250.00	118,250.00
		#	110,250.00
CLIN 0017AC	BZ	190,000.00	
		-	190,000.00
		_	
CLIN 0017AD	KN	0.00	
CLIN 0017AD	KS	0.00 _	0.00
		==	0.00
CLIN 0017AE	LL	173,798.00	
		•	173,798.00
CLIN 0017AH	KT	173,798.00	152 500 00
		=	173,798.00
CLIN 0020AA	KN	0.00	
CLIN 0020AA	KQ	26,660.00	
	•		26,660.00
CLIN 0021AA	KW	0.00 _	
		_	0.00
		=	
CLIN 0021AB	KV	0.00	
CLIN 0021AB	LB	0.00	

CLIN 0021AB	KX	0.00	
CLIN 0021AB	KY	0.00	
		***************************************	0.00
CLIN 0021AC	KZ	0.00	
CLIN 0021AC	LA	0.00	
			0.00
CLIN 0022	KW	0.00	
			0.00
CLIN 0023	KX	60,000.00	
CLIN 0023	KY	25,000.00	
CLIN 0023	KV	65,000.00	
CLIN 0023	LB	12,500.00	
CLIN 0023	LF	10,000.00	
CLIN 0023	LR	\$125,000.00	
			297,500.00
CLIN 0024	LA	13,508.00	
CLIN 0024	LG	62,000.00	
CLIN 0024	KZ	25,000.00	
CLIN 0024	KW	20,000.00	
CLIN 0024	LP	83,200.00	
			203,708.00
CLIN 0025	LE	1,173,850.00	
CLIN 0025	LM	1,080,404.00	
CLIN 0025	MA	0.00	
			2,254,254.00
CLIN 0026	LN	630,061.00	
			630,061.00
CLIN 0027	LZ	1,751,384.00	
			1,751,384.00
CLIN 0028	LM	329,972.00	
CLIN 0028	MA	2,982,442.00	
CLIN 0028	MG	6,262,095.00	
			9,574,509.00

(End of Summary of Changes)

AMENDMENT OF SOLICI	TATION/MODIF	ICATION OF CONTRACT	1. CONTRACT	TID CODE	PAGE OF PAGE	ES
					1 8	
MENDMENT/MODIFICATION NO.	3 EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO		5 PROJECT	NO ((fapplicable)	
00238	29-Aug-2011					
ISSUED BY CODE JSASMDC/ARSTRAT SMDC-RDC O BOX 1500 HUNTSVILLE AL 35807-3801	W9113M	7. ADMINISTERED BY (Ifother than item.6) DCMA RAYTHEON 50 APPLE HILL DRIVE MIS TEFR2 TEWKSBURY MA 01876	CO	DE S220	<u>5A</u>	
NAME AND ADDRESS OF CONTRACTO	R (No., Street, County,	State and Zip Code)	9A. AMENDM	ENT OF SO	LICITATION NO) .
RAYTHEON COMPANY 350 LOWELL ST ANDOVER MA 01810-4400			9B. DATED (S	EE ITEM 1	1)	
			X 10A. MOD. OI DASG60-98-0	-0001		
DDE 05716	EACH ITY COL	NE I	10B. DATED X 30-Jan-1998	(SEE ITEM	15)	
	FACILITY COI	DE	100 00 1000			
	prior to the hour and date spec- copies of the amendment a reference to the solicitation the RECEIPTOF OFFERS s amendment you desire to che the solicitation and this amend DATA (If required) TEM APPLIES ONLY TO DIFFES THE CONTRAC RSUANT TO: (Specify a	isified in the solicitation or as amended by one of the control of the same of the control of the same of the control of the same of the control of the cont	nt on each copy of the o CKNOWLEDGMENT MAY RESULTIN e made by telegram or le nd date specified. WORDERS. EM 14. IN ITEM 14 ARE 1	TO BE Sitter, MADE IN T	HE	
office, appropriation date, etc.) SET FO C. THIS SUPPLEMENTAL AGREEMENT	RTH IN ITEM 14, PUR	SUANT TO THE AUTHORITY OF FAI	R 43.103(B).			
D. OTHER (Specify type of modification a UNILATERAL: FAR 52.232-22, "Limitation						
IMPORTANT: Contractor X is not,		n this document and return	copies to the issuin	g office.	10.44	
. DESCRIPTION OF AMENDMENT/MOD	IFICATION (Organized	by LICE section headings, including solici	tation/contract sub	ect matter		
where feasible.) Modification Control Number: To increase incremental funding for SubCL					(b)(6)	ļ
cept as provided herein, all terms and conditions of th A. NAME AND TITLE OF SIGNER (Type		9A or 10A, as heretofore changed, remains unchan			or print) (b)(6	 6)
CONTRACT OR/OFFEROR	15C. DATE SIGNEI	D 16B LINITED STATES OF AMER	ICA	160	C. DATE SIGNED	
		<u>B</u>		29	^{9-Aug-2011} (b)(~، (د)
(Signature of person authorized to sign)		(Signature of Contracting Off				
XCEPTION TO SF 30	3	30-105-04	STA	ANDARD FO	ORM 30 (Rev. 10-	83)

APPROVED BY OIRM 11-84

002258

Prescribed by GSA FAR (48 CFR) 53.243

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

1. SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by \$7,000,000.00 from \$1,738,116,100.62 to \$1,745,116,100.62.

SUBCLIN 0017AA:

MF: 21 1 2040 5L 5L68 P172419E555L 255Y 4M1J730000 S01021 4M1J730000/14MJLE/4M5 was increased by \$7,000,000.00 from \$261,492,519.00 to \$268,492,519.00

Target Cost, Target Fee, and Total for the above increase of \$7,000,000 is distributed as follows and includes an increase in target cost of cost and increase in target incentive fee of the second of the second of target cost less facilities capital cost of money.

(b)(4)

Target Cost
Target Fee
Total \$7,000,000

IMPLEMENTATION OF AND EXPLANATION OF THE RELATIONSHIP OF THE LIMITATION OF FUNDS (LOF) CLAUSE TO FEE OBLIGATIONS, subparagraph c., is revised to read as follows:

SUE	BCLIN 0017AA :	-	TH	IS	CUMULATIVE	
		PRIOR	MODIFIC	CATION	TOTAL*	
(1)	Amount Required for Full Funding,					6.368
	Including Fee:	\$1,578,737,155	\$	0	\$ 1,578,737,155	(b)(4)
(2)	Amount Allotted Under the LOF Clause					(-),
	for Payment of Costs:					
(3)	Amount Separately Obligated for					_
	Payment of Fee:					(b)(4)
(4)	Total Amount Allotted and Obligated:	\$1,512,777,909.26	\$7,000,0	00	\$1,519,777,909.26	(~)(·)
(5)	Net Amount Required for Full Funding	\$ 65,959,245.74	(\$7,000,0	000)	\$ 58,959,245.74	

^{*} These figures take into consideration the negotiated total value of SubCLIN 0017AA (This does not include SubCLIN 17AH)

2. The following is an update to Modification P00234 showing a summary of funding by ACRN through Modification P00237:

<u>ACRN</u>	<u>FUNDING</u>	
AA		440,100.00
AB		2,298,235.00

AC	17,832,987.00
AD	0.00
AE	7,500,000.00
AF	3,300,000.00
AG	17,192,400.00
AH	700,000.00
AJ	200,000.00
AK	85,000.00
AL	45,000.00
AM	17,045,000.00
AN	5,800.00
AP	20,779,000.00
AQ	105,000.00
AR	35,000.00
AS	0.00
AT .	6,984,678.52
AU	7,970,000.00
AV	0.00
AW	100,000.00
AX	3,396,000.00
AY	550,000.00
AZ	19,412,000.00
BA	24,527,878.00
BB	146,000.00
BC	72,000.00
BD	85,000.00
BE	100,000.00
BF	100,000.00
BG	1,975,321.00
ВН	38,018,908.00
ВЈ	7,896,673.34
BK	260,000.00
BL	0.00
ВМ	125,000.00
BN	103,000.00
BP	10,199,288.50
BU	350,000.00
BV	9,000.00
BW	84,896,852.00
BX	1,146,000.00
BY	3,880,000.00
BZ	190,000.00
KL	118,250.00
KM	192,793,000.00
KN	0.00
KQ	92,811.00
KR	0.00
KS	0.00
KT	386,377,998.00
KU	2,203,183.00
13.0	03,103.00

KV	65,000.00
KW	20,000.00
KX	60,000.00
KY	25,000.00
KZ	25,000.00
LA	13,508.00
LB	12,500.00
LC	200,000.00
LD	7,943,648.00
LE	1,173,850.00
LF	10,000.00
LG	62,000.00
LH	400,000.00
LJ	7,476.00
LK	\$281,575,897.00
LL	\$173,798.00
LM	\$1,410,376.00
LN	\$630,061.00
LP	\$83,200.00
LQ	\$235,566.00
LR	\$125,000.00
LS	\$6,069,616.00
LT	\$530,377.00
LU	\$9,100,000.00
LV	\$1,957,265.00
LW	\$255,567.00
LX	\$68,000.00
LY	\$264,135,933.26
LZ	\$1,751,384.00
MA	\$2,982,442.00
MB	\$375,000.00
MC	\$2,283,481.00
MD	\$8,573.00
ME	\$0.00
MF	\$268,492,519.00
MG	\$6,262,095.00
МН	\$213,390.00
MJ	\$858,495.00
MK	\$56,076.00
ML	\$116,044.00
MM	\$1,618,600.00
MN	\$2,087,000.00
	, ,

3. The following is an update to Modification P00234 showing a summary of funding by CLIN by ACRN through Modification P00237:

CLIN	ACRN	FUNDING AMT	<u>CLIN TOTAL</u>
CLIN 0001	AA	440,100.00	
CLIN 0001	AD	0.00	

		 	440,100.00
		2 200 205 00	
CLIN 0003	AB	2,298,235.00	
CLIN 0003	AC	17,832,987.00	
CLIN 0003	AD	0.00	
CLIN 0003	AE	7,500,000.00	
CLIN 0003	AF	3,300,000.00	
CLIN 0003	AG	17,192,400.00	
CLIN 0003	AH	700,000.00	
CLIN 0003	AM	17,045,000.00	
CLIN 0003	AN	5,800.00	
CLIN 0003	AP	20,779,000.00	
CLIN 0003	AS	0.00	
CLIN 0003	AT	6,984,678.52	
CLIN 0003	AW	100,000.00	
CLIN 0003	ΑY	550,000.00	
		-	94,288,100.52
CLIN 0005	ВА	24,527,878.00	
CLIN 0005	BB	146,000.00	
CLIN 0005	BC	72,000.00	
CLIN 0005	BD	85,000.00	
CLIN 0005	BE	100,000.00	
CLIN 0005	BF	100,000.00	
CLIN 0005	BG	1,975,321.00	
	BH	38,018,908.00	
CLIN 0005		0.00	
CLIN 0005	BL DZ	0.00	
CLIN 0005	BZ	0.00	65,025,107.00
			03,023,107.00
CLIN 0007AA	BP	10,199,288.50	
		_	10,199,288.50
CLIN 0009AA	AQ	45,106.00	
CLIN 0009AA	AV	0.00	
CLIN 0009AA	BK	256,545.00	
CLIN 0009AA	BM	125,000.00	
CLIN 0009AA	BN	21,315.00	
		_	447,966.00
CLIN 0009AB	АJ	200,000.00	
CLIN 0009AB	AK	85,000.00	
CLIN 0009AB	AL	45,000.00	
CLIN 0009AB	AQ	59,894.00	
CLIN 0009AB	AR	35,000.00	
CLIN 0009AB	BK	3,455.00	
CLIN 0009AB	BN	81,685.00	
CLIM OOOMD	DIA	01,005.00	

CLIN 0009AB	BU	350,000.00	
CLIN 0009AB	BV	9,000.00	
		•	869,034.00
		5.050.000.00	
CLIN 0013	AU	7,970,000.00	
CLIN 0013	AX	3,396,000.00	
CLIN 0013	AY	0.00	
CLIN 0013	AZ	19,412,000.00	
CLIN 0013	BJ	7,896,673.34	
			38,674,673.34
CLIN 0017	ВW	0.00	
CLIN 0017	KM	0.00	
			0.00
CLIN 0017AA	BY	3,880,000.00	
CLIN 0017AA	BX	1,146,000.00	
CLIN 0017AA	BW	84,896,852.00	
CLIN 0017AA	BZ	0.00	
CLIN 0017AA	KM	192,793,000.00	
CLIN 0017AA	KN	0.00	
CLIN 0017AA	KQ	66,151.00	
CLIN 0017AA	KS	0.00	
CLIN 0017AA	KT	386,204,200.00	
CLIN 0017AA	KU	2,203,183.00	
CLIN 0017AA	KY	0.00	
CLIN 0017AA	LC LD	200,000.00	
CLIN 0017AA	LD LE	7,943,648.00 0.00	
CLIN 0017AA CLIN 0017AA	LH	400,000.00	
CLIN 0017AA	LJ	7,476.00	
CLIN 0017AA	LK	281,575,897.00	
CLIN 0017AA	LQ	235,566.00	
CLIN 0017AA	LS	6,069,616.00	
CLIN 0017AA	LT LT	530,377.00	
		\$9,100,000.00	
CLIN 0017AA CLIN 0017AA	LU LV	\$1,957,265.00	
CLIN 0017AA	LW	\$255,567.00	
CLIN 0017AA	LX	\$68,000.00	
CLIN 0017AA	LY	\$264,135,933.26	
CLIN 0017AA	MB	\$375,000.00	
CLIN 0017AA	MC	\$2,283,481.00	
CLIN 0017AA	MD	\$8,573.00	
CLIN 0017AA	ME	\$0.00	
CLIN 0017AA	MF	\$268,492,519.00	
CLIN 0017AA	МН	\$213,390.00	

CLIN 0017AA	MJ	\$858,495.00	
CLIN 0017AA	MK	\$56,076.00	
CLIN 0017AA	ML	\$116,044.00	
CLIN 0017AA	MM	\$1,618,600.00	
CLIN 0017AA	MN	\$2,087,000.00	
	****	42 ,007,000100	1,519,777,909.26
		=	1,319,777,909.20
		_	
CLIN 0017AB	KL	118,250.00	
			118,250.00
CLIN 0017AC	BZ	190,000.00	
		_	190,000.00
GV D / 001 E A D	****	2.22	
CLIN 0017AD CLIN 0017AD	KN KS	0.00 0.00	
CLIN 001 /AD	N3	0.00	0.00
		=	0.00
CLIN 0017AE	LL	173,798.00	
		112,770.00	173,798.00
			,
CLIN 0017AH	KT	173,798.00 _	
		_	173,798.00
CLIN 0020AA CLIN 0020AA	KN	0.00	
CLIN 0020AA	KQ	26,660.00	26,660.00
			20,000.00
CI DI 0001 A A	7/11/	0.00	
CLIN 0021AA	KW	0.00 _	
		-	0.00
CLIN 0021AB	KV	0.00	
CLIN 0021AB	LB	0.00	
CLIN 0021AB	KX	0.00	
CLIN 0021AB	KY	0.00	
		•	0.00
CLIN 0021AC	KZ	0.00	
CLIN 0021AC	LA	0.00	
		-	0.00
OI DI AAGO	Y/ 15 7	2.22	
CLIN 0022	KW	0.00	^ ^^
			0.00

CLIN 0023	KX	60,000.00	
CLIN 0023	KY	25,000.00	
CLIN 0023	KV	65,000.00	
CLIN 0023	LB	12,500.00	
CLIN 0023	LF	10,000.00	
CLIN 0023	LR	\$125,000.00	
			297,500.00
CLIN 0024	LA	13,508.00	
CLIN 0024	LG	62,000.00	
CLIN 0024	KZ	25,000.00	
CLIN 0024	KW	20,000.00	
CLIN 0024	LP	83,200.00	
			203,708.00
			203,700.00
CLIN 0025	LE	1,173,850.00	
CLIN 0025	LM	1,080,404.00	
CEII VO23	Divi		
CLIN 0025	MA	0.00	
			2,254,254.00
CLIN 0026	LN	630,061.00	
		· · · · · · · · · · · · · · · · · · ·	630,061.00
CLIN 0027	LZ	1,751,384.00	· · · · · · · · · · · · · · · · · · ·
			1,751,384.00

CLIN 0028	LM	329,972.00	
CLIN 0028	MA	2,982,442.00	
CLIN 0028	MG	6,262,095.00	
			9,574,509.00
		==	.,,

(End of Summary of Changes)

AMENDMENT OF SOLICITA	ATION/MODIF	ICATION OF CONTRACT	1 CONTRACT	ID CODE	PAGE O	PAGES
				T	1 1	15
AENDMENT/MODIFICATION NO.	3 EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT	NO.(Ifapplic	able)
0239	14-Sep-2011					
SASMDC/ARSTRAT MDC-RDC D BOX 1500 UNTSVILLE AL 35807-3801	W9113M	7. ADMINISTERED BY (Ifother than item 6) DCMA RAYTHEON 50 APPLE HILL DRIVE M/S T2FR2 TEWKSBURY MA 01876 .	to	DE S2205	<u>о</u> А	
NAME AND ADDRESS OF CONTRACTOR	(No., Street, County,	State and Zip Code)	9A. AMENDM	ENT OF SOI	LICITATI	ON NO.
RAYTHEON COMPANY 850 LOWELL ST. ANDOVER MA 01810-4400			9B. DATED (S	EE ITEM 11)	
			X 10A. MOD. OF DASG60-98-C			NO.
			X 30-Jan-1998	(SEE ITEM	13)	
DE 05716	FACILITY COL	DE L PPLIES TO AMENDMENTS OF SOLIC	1			
The above numbered solicitation is amended as set for			is extended,	is not exten		
(a) By completing Items 8 and 15, and returning or (c) By separate letter or telegram which includes a r RECEIVED AT THE PLACE DESIGNATED FOR TI REJECTION OF YOUR OFFER. If by virtue of this a provided each telegramor letter makes reference to the	eference to the solicitation HE RECEIPT OF OFFERS mendment you desire to cha	PRIOR TO THE HOUR AND DATE SPECIFIED Tonge an offer already submitted, such change may be	ACKNOWLEDGMENT OMAY RESULT IN the made by telegramor le	то ве		
ACCOUNTING AND APPROPRIATION D.	ATA (If required)					
See Schedule			WOODERG			
		TO MODIFICATIONS OF CONTRACTS CT/ORDER NO. AS DESCRIBED IN ITH				
1. THIS CHANGE ORDER IS ISSUED PURSI CONTRACT ORDER NO. IN ITEM 10A.				MADE IN TE	Æ	
B. THE ABOVE NUMBERED CONTRACT/Office, appropriation date, etc.) SET FORT				as changes in	n paying	
C. THIS SUPPLEMENTAL AGREEMENT IS			K 43.103(B).			····
D. OT HER (Specify type of modification and UNILATERAL: FAR 52.243-2, Changes	authority)	_			·	
MPORTANT: Contractor X is not,	is required to sig	n this document and return	copies to the issuin	a office		
			·			
DESCRIPTION OF AMENDMENT/MODIF where feasible.) Modification Control Number: Dissue a change order to delete Paragraph program Statement of Work, SW-JLENS-SDD	3.12.4, System Capab)(6)
				1 m .		
pt as provided herein, all terms and conditions of the d NAME AND TITLE OF SIGNER (Type or		9A or 10A, as hereto fore changed, remains unchar 16A. NAME AND TITLE OF CO			or print)	
a range may tribb or ordanic (1 spe of	prair)	TOTAL TITALISE CHILD TITLE OF CO.	THE THE OFFI	- Cole (1 ype (, pinit)	(b)(
CONTRACTOR/OFFEROR	15C. DATE SIGNE	D IGB LINITED STATES OF AMERI	VO	160	C. DATE S	GNED (b)(6)
(Signature of person authorized to sign)	•	Congruntate of Contracting Off	icer)		-Sep-201	Γ΄`
CEPTION TO SF 30 PROVED BY OIRM 11-84		30-105-04	ST A	ANDARD FO	•	ev. 10-83

Prescribed by GSA FAR (48 CFR) 53.243

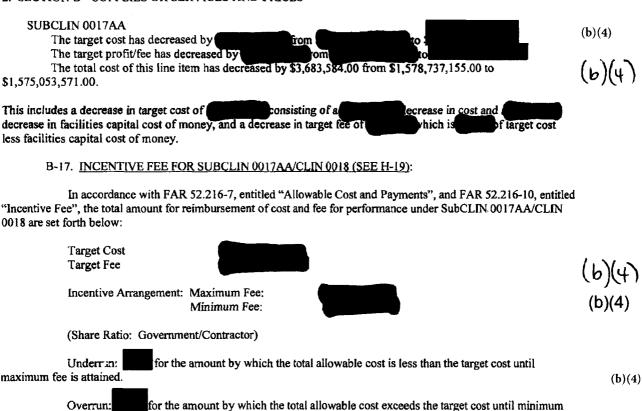
SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

1. SECTION A - SOLICITATION/CONTRACT FORM

The total cost of this contract was decreased by \$3,683,584.00 from \$1,816,485,602.00 to \$1,812.802,018.00.

2. SECTION B - SUPPLIES OR SERVICES AND PRICES



FAR 52.216-10, INCENTIVE, paragraph (e)(1), is stated as follows:

(e) Fee Payable.

fee is attained.

- (1) The fee payable under this contract shall be the target fee increased by the for every dollar that the total allowable cost is less than the target cost or decreased by the start is for every dollar that the total allowable cost exceeds the target cost. In no event shall the fee be greater than the start of the target cost. (b)(4)
- B-18. TARGET COST, TARGET FEE, MINIMUM INCENTIVE FEE, MAXIMUM INCENTIVE FEE, AND INCENTIVE ARRANGEMENT FOR SUBCLIN 0017AA/CLIN 0018:

SUBCLIN 0017AA - (Two SDD JLENS Systems)

a. Target cost:

b. Target fee:

c. Minimum incentive fee:

d. Maximum incentive fee:

e. Total target cost and target fee:

\$1,575,053,571

(b)(4)

- 3. SECTION F DELIVERIES OR PERFORMANCE is revised as follows to delete System Capability Review #1, System Capability Review #2, and System Capability #3:
 - b. Paragraph F-5, MILESTONE EVENTS AND PERFORMANCE PERIOD:

MILESTONE EVENT	COMPLETED TIME PERIOD

CLIN 0017

Orbit SRR First Quarter FY07

Orbit SFRR First Quarter FY07

Orbit SFR Second Quarter FY07

Platform PDRR Second Quarter FY07

FCR PDRR/CDRR Third Quarter FY07

SuR PDRR First Quarter FY08

Processing Station & CP PDRR First Quarter FY08

Platform CDRR Second Quarter FY08

Orbit PDR Second Quarter FY08

SuR CDRR Fourth Quarter FY08

Processing Station & CP CDRR Fourth Quarter FY08

Orbit CDR Second Quarter FY09

Fire Control System FVT2 TRR First Quarter FY11

SuR System FVT2 TRR First Quarter FY11

Production Readiness Review First Quarter FY11

Orbit #1 Developmental Test #1 Complete (Primary Missions)

Third Quarter FY11

DT-1 Test Report Third Quarter FY11

Orbit #1 Developmental Test #2 Complete (Secondary Missions)	Fourth Quarter FY11
DT-2 Test Report	First Quarter FY12
Limited User Test (LUT) TRR	First Quarter FY12
LUT Completion	First Quarter FY12
Logistics Demo #1	Fourth Quarter FY12
Orbit #1 DD250	Fourth Quarter FY12
Logistics Demo #2	Fourth Quarter FY12
Orbit #2 DD250	Fourth Quarter FY13

4. SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was decreased by \$2,829,710.00 from \$1,745,116,100.62 to \$1,742,286,390.62

SUBCLIN 0017AA:

MF: $21\ 1\ 2040\ 5L\ 5L68\ P172419E555L\ 255Y\ 4M1J730000\ S01021\ 4M1J730000/14MJLE/4M5$ was decreased by \$2,829,710.00 from \$268,492,519.00 to \$265,662,809.00

Target Cost, Target Fee, and Total for the above decrease of \$2,829,710 is distributed as follows and includes a decrease in target cost of the cost and decrease in target incentive fee of the cost of money.

(b)(4)

Target Cost
Target Fee
Total (\$2,829,710)

IMPLEMENTATION OF AND EXPLANATION OF THE RELATIONSHIP OF THE LIMITATION OF FUNDS (LOF) CLAUSE TO FEE OBLIGATIONS, subparagraph c., is revised to read as follows:

SUE	BCLIN 0017AA:	PRIOR	THIS <u>MODIFICATION</u>	CUMULATIVE TOTAL*	
(1)	Amount Required for Full Funding,				
	Including Fee:	\$1,578,737,155	(\$3,683,584)	\$ 1,575,053,571	
(2)	Amount Allotted Under the LOF Clause				WALL
	for Payment of Costs:				(b)(4 .
(3)	Amount Separately Obligated for				, -
	Payment of Fee:				(b)(4)
(4)	Total Amount Allotted and Obligated:	\$1,519,777,909.26	(\$2,829,710)	\$1,516,948,199.26	(-)(-)
(5)	Net Amount Required for Full Funding	\$ 58,959,245.74	(\$ 853,874)	\$ 58,105,371.74	

^{*} These figures take into consideration the negotiated total value of SubCLIN 0017AA (This does not include

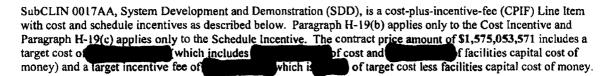
SubCLIN 17AH)

5. SECTION H - SPECIAL CONTRACT REQUIREMENTS is revised as follows:

Paragraph H-19, INCENTIVE FEE STRUCTURE AND PAYMENT FOR CLIN 0017, SYSTEM DEVELOPMENT AND DEMONSTRATION (SDD), subparagraphs a. and b., are revised as follows:

a. General.

b. Cost Incentive.



(1) The target fee payable under SubCLIN 0017AA is support the target cost less facilities capital cost of money (b) an amount equal to)(4
---	-----

- (2) The maximum fee payable under SubCLIN 0017AA is money an amount equal to
- (3) The minimum fee payable under SubCLIN 0017AA is substitute that the first substitute of the target cost less facilities capital cost of money an amount equal to
- (4) Fee will be adjusted for actual cost that is less than or more than the target cost stated above using a share ratio of the Government Contractor for actual costs less than the target cost, and a ratio of contractor for actual costs greater than the target cost range applied according to Paragraph H-19(c)(1).
- (5) Nothing stated in this clause shall take precedence over the clause 52.216-10 Incentive Fee contained in this contract.

Paragraph H-19, INCENTIVE FEE STRUCTURE AND PAYMENT FOR CLIN 0017, SYSTEM

DEVELOPMENT AND DEMONSTRATION (SDD), subparagraph c., is revised as follows (Note subparagraph c(2) regarding an additional incentive fee pool of has been deleted):

(b) (4)

- c. Schedule and Performance Incentive.
- (1) A maximum with the "flat zone" will be established at the target cost value of conduct of milestones below. The "flat zone" over which the contractor will earn target fee is for eligible costs from to once the program milestones set forth below are conducted.
- (a) of the maximum benefit of the "flat zone", earned by the conduct of the SDD System

 Functional Review NLT 2nd Quarter, Fiscal Year 2007. (It is hereby acknowledged by the government that

 Raytheon completed the requirement for this flat zone and earned the "Flat Zone" schedule incentive of

 Final determination of incentive fee payment utilizing the "Flat Zone" amount will be made at the conclusion of the contract. Reference letter, dated 5 March 2007 from

 (b)(u)
- (b) Some of the maximum benefit of the "flat zone", earned by the conduct of SDD Orbit Critical Design review NLT 2nd Quarter, Fiscal Year 2009. (It is hereby acknowledged by the government that Raytheon completed the requirement for this flat zone and earned the "Flat Zone" schedule incentive of the conduct of SDD Orbit Critical (b) (4)

 (b) (4)

vill be used.

determination of incentive fee payment utilizing the "Flat Zone" amount will be made at the conclusion of the contract. Reference letter, dated 12 January 2009, from

(P)(P)

(3) For Earned Value and cost reporting purposes, the target cost value of



d. Changes issued under FAR 52.243-2, Changes - Cost Reimbursement

In the event of a change issued under FAR 52.243-2, Changes - Cost Reimbursement, it is agreed that changes to the performance and schedule incentive may be considered a part of the equitable adjustment. In the event that any Options to CLIN 0017 are added and exercised, the incentive fee for cost and schedule/performance applicable to the Option will be incorporated in accordance with the incentive fee structure of this provision.

6. SECTION J - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

The following has been revised to reflect an update to CLIN 0017, JLENS SDD Program Statement of Work and CLIN 0017, Contract Data Requirements List (DD Form 1423) and to delete CLIN 0017, Performance Incentive Fee Critical Evidence, undated and consisiting of eight (8) pages:

TITLE	<u>DATE</u>	# OF PAGES	
Contract Security Classification Specification (DD Form 2. Revision 13 (Added per Modification P00235)	54), 14 Apr 11	13	
JLENS Software Source Code Specifically Negotiated Lice License Number JLENS-SWLA-01 (Added per Modification P00166)	ense, 04 Sep 08	8	
CLIN 0017: JLENS System Development and Demonstration (SDD) Program Statement of Work (Revised by Incorporating CSDR Plans dated 20 Febr 2007 in Appendix C per Modification P00136)	30 Nov 06 - Revised 20 Feb 07	37	
JLENS System Development and Demonstration (SDD) Program Statement of Work (Added per Modification P00187)	Revised 06 Apr 09	38	
JLENS System Development and Demonstration (SDD) Program Statement of Work, Revision 2 (Added per Modification P00207)	Revised 09 Mar 10	36	
JLENS System Development and Demonstration (SDD) Program Statement of Work, Revision 3 (Added per Modification P00239)	Revised 01 Sep 11	36	
	March 08	1	(b)(3)(A)(i)&Title 10 Sec 130 (a)(b)
Contract Data Requirements List (DD Form 1423) Exhibit A with Distribution List & Data Item Nos. B001 through B062	01 Dec 06	63	
(Replace Data Item Nos. B026 and B027, only Per Modification P00136)	Revised 05 Apr 07		

(Replace Data Item Nos. B048 and B049, only Per Modification P00143 & to add statement in	Revised 24 Oct 07	
Section A of Modification P00143) (Replace Data Item No. B033 only, per Modification P00161)	Revised 11 Jul 08	1
Contract Data Requirements List (DD Form 1423) Exhibit A, Data Item Nos. B001 and B014 (Added per Modification P00187)	Revised 07 May 09	2
Contract Data Requirements List (DD Form 1423) Exhibit A, Data Item Nos. B002 through B062 (less B014) (Added per Modification P00187)	Revised 20 Mar 09	60
Contract Data Requirements List (DD Form 1423) Exhibit A, Data Item Nos. B001 and B014 (Added per Modification P00239)	Revised 30 Aug 11	2

*Added statement below to address weekends/Holidays: (In Mod P00143)

24 October 07

*Per a mutual agreement between Raytheon and JLENS Product Office all Contract Data Requirements List (CDRL's) (DD Form 1423) are due on the next business day after the required due date if the due date falls on Saturday, Sunday or a Government Holiday. In addition, for any CDRL with a requirement to resubmit within 10 days or less after receipt of comments, where Raytheon receives the comments on a Friday, the timeframe for resubmittal will begin on the next business day. Statement added in Mod P00143 on 24 Oct. 2007.

GFE/GFP/GFS List for SDD		28 Nov 06	2
Replaced with Rev. B List		15 Oct 07	6
**Add items below		Revised 22 Oct 07	
For record-keeping purposes	1.		
(Per Mod P00143)			30
Replaced with Revision C List		09 Mar 09	. 12
(Per Modification P00183)			
Replaced with Revision D List		23 Feb 10	11
(Per Modification P00207)			

**Per the DCMA and Raytheon is authorized rent free use on a non-interference use of the equipment listed below for utilization on JLENS Fire Control Radar Prime Contract DASG60-98-C-0001 for the period from 19 April 2007 through 30 September 2011.



Items

Hereby added in Mod P00148 for tracking purposes: Originated in Basic Contract: Government Furnished Equipment - Spiral 1 (Spiral 1 Equipment Transferred to Government Contract DASG60-00-C-0091, DD Form 1149 (attached) Ship to address: (b)(6)	20 Jun 03 25 Mar 07* (Revised 21 Nov 07)*	1 List 34 pages 34 pages
(b)(4)		
*NOTE: Items 1-1060 transferred to Contract DASG60-00-C-0091 1061 – 1116 GFE items retained on Contract DASG60-98-C-0001 for		
JLENS Performance Specification, MIS-PRF-55628, Revision A (Added by reference per Modification P00168)	27 Jun 08	136
Annex A to the JLENS Performance Specification, MIS-PRF-55628, Revision A (Added by reference per Modification P00168)	27 Jun 08	10
JLENS SDD DD250 Plan (Added per Modification P00207)	11 Dec 09	5
Engineering Change Proposal (ECP) MI-N3893, Revision 2, CDRL B039-005b	15 Nov 10	15
Engineering Change Proposal (ECP) MI-N3894, CDRL B039-006	18 Aug 10	16
Engineering Change Proposal (ECP) MI-N3895, CDRL B039-007	28 Sep 10	50
CLINs 0023 and 00024 JLENS Simulation Support SOW dated 28 January 2008 (b)(3)(A) Simulation Support Tasks (Added per Mod P00160)	28 January 2008	2 pages
CLIN 0025		
JLENS Integrated Fire Control Demonstration Program Statement of Work, Revision 5 (Added per Modification P00211)	14 Sep 09	3
JLENS Integrated Fire Control Demonstration Program Program and Technical Clarification Description, incorporated herein by reference (Added per Modification P00211)	30 Mar 10	26

Contract Data Requirements List (DD Form 1423) Exhibit B, Data Items Nos. B001 through B004, with Data Item Descriptions (Added per Modification P00165)	16 Oct 07		19
Contract Data Requirements List (DD Form 1423), CLIN 0028, Exhibit B, Data Item Nos. B001 through B006 (Added per Modification P00211)	16 Jun 10		6
<u>CLIN 0027</u>			
JLENS System Integration Lab (SIL) Equipment List (Added per Modification P00196)	Undated	6	
Revision to System Integration Lab (SIL) Equipment List (Added per Modification P00217)	02 Aug 10		6

7. The following is an update to Modification P00238 showing a summary of funding by ACRN through Modification P00239:

<u>ACRN</u>	<u>FUNDING</u>
AA	440,100.00
AB	2,298,235.00
AC	17,832,987.00
AD	0.00
AE	7,500,000.00
AF	3,300,000.00
AG	17,192,400.00
AH	700,000.00
AJ	200,000.00
AK	85,000.00
AL	45,000.00
AM	17,045,000.00
AN	5,800.00
AP	20,779,000.00
AQ	105,000.00
AR	35,000.00
AS	0.00
AT	6,984,678.52
AU	7,970,000.00
AV	0.00
AW	100,000.00
AX	3,396,000.00
ΑY	550,000.00
AZ	19,412,000.00
BA	24,527,878.00
BB	146,000.00

BC	72,000.00
BD	85,000.00
BE	100,000.00
BF	100,000.00
BG	1,975,321.00
BH	38,018,908.00
BJ	7,896,673.34
BK	260,000.00
BL	0.00
BM	125,000.00
BN	103,000.00
BP	10,199,288.50
BU	350,000.00
BV	9,000.00
BW	84,896,852.00
BX	1,146,000.00
BY	3,880,000.00
BZ	190,000.00
KL	118,250.00
KM	192,793,000.00
KN	0.00
KQ	92,811.00
KR	0.00
KS	0.00
KT	386,377,998.00
KU	2,203,183.00
KV	65,000.00
KW	20,000.00
KX	60,000.00
KY	25,000.00
KZ	25,000.00
LA	13,508.00
LB	12,500.00
LC	200,000.00
LD	7,943,648.00
LE	1,173,850.00
LF	10,000.00
LG	62,000.00
LH	400,000.00
LJ	7,476.00
LK	\$281,575,897.00
LL	\$173,798.00
LM	\$1,410,376.00
LN	\$630,061.00
LP	\$83,200.00
LQ	\$235,566.00
LR	\$125,000.00
LS	\$6,069,616.00
LT	\$530,377.00
LU	\$9,100,000.00
	,,

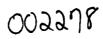
LW \$255,567.00 LX \$68,000.00 LY \$264,135,933.26 LZ \$1,751,384.00 MA \$2,982,442.00 MB \$375,000.00 MC \$2,283,481.00 MD \$8,573.00 ME \$0.00 MF \$265,662,809.00 MG \$6,262,095.00 MH \$213,390.00 MJ \$858,495.00 MK \$56,076.00 ML \$116,044.00 MM \$1,618,600.00 MM \$2,087,000.00	LV	\$1,957,265.00
LY \$264,135,933.26 LZ \$1,751,384.00 MA \$2,982,442.00 MB \$375,000.00 MC \$2,283,481.00 MD \$8,573.00 ME \$0.00 MF \$265,662,809.00 MG \$6,262,095.00 MH \$213,390.00 MJ \$858,495.00 MK \$56,076.00 ML \$116,044.00 MM \$1,618,600.00	LW	\$255,567.00
LZ \$1,751,384.00 MA \$2,982,442.00 MB \$375,000.00 MC \$2,283,481.00 MD \$8,573.00 ME \$0.00 MF \$265,662,809.00 MG \$6,262,095.00 MH \$213,390.00 MJ \$858,495.00 MK \$56,076.00 ML \$116,044.00 MM \$1,618,600.00	LX	\$68,000.00
MA \$2,982,442.00 MB \$375,000.00 MC \$2,283,481.00 MD \$8,573.00 ME \$0.00 MF \$265,662,809.00 MG \$6,262,095.00 MH \$213,390.00 MJ \$858,495.00 MK \$56,076.00 ML \$116,044.00 MM \$1,618,600.00	LY	\$264,135,933.26
MB \$375,000.00 MC \$2,283,481.00 MD \$8,573.00 ME \$0.00 MF \$265,662,809.00 MG \$6,262,095.00 MH \$213,390.00 MJ \$858,495.00 MK \$56,076.00 ML \$116,044.00 MM \$1,618,600.00	LZ	\$1,751,384.00
MC \$2,283,481.00 MD \$8,573.00 ME \$0.00 MF \$265,662,809.00 MG \$6,262,095.00 MH \$213,390.00 MJ \$858,495.00 MK \$56,076.00 ML \$116,044.00 MM \$1,618,600.00	MA	\$2,982,442.00
MD \$8,573.00 ME \$0.00 MF \$265,662,809.00 MG \$6,262,095.00 MH \$213,390.00 MJ \$858,495.00 MK \$56,076.00 ML \$116,044.00 MM \$1,618,600.00	MB	\$375,000.00
ME \$0.00 MF \$265,662,809.00 MG \$6,262,095.00 MH \$213,390.00 MJ \$858,495.00 MK \$56,076.00 ML \$116,044.00 MM \$1,618,600.00	MC	\$2,283,481.00
MF \$265,662,809.00 MG \$6,262,095.00 MH \$213,390.00 MJ \$858,495.00 MK \$56,076.00 ML \$116,044.00 MM \$1,618,600.00	MD	\$8,573.00
MG\$6,262,095.00MH\$213,390.00MJ\$858,495.00MK\$56,076.00ML\$116,044.00MM\$1,618,600.00	ME	\$0.00
MH \$213,390.00 MJ \$858,495.00 MK \$56,076.00 ML \$116,044.00 MM \$1,618,600.00	MF	\$265,662,809.00
MJ \$858,495.00 MK \$56,076.00 ML \$116,044.00 MM \$1,618,600.00	MG	\$6,262,095.00
MK \$56,076.00 ML \$116,044.00 MM \$1,618,600.00	MH	\$213,390.00
MIL \$116,044.00 MM \$1,618,600.00	MJ	\$858,495.00
MM \$1,618,600.00	MK	\$56,076.00
41,010,000	ML	\$116,044.00
MN \$2,087,000.00	MM	\$1,618,600.00
	MN	\$2,087,000.00

8. The following is an update to Modification P00238 showing a summary of funding by CLIN by ACRN through Modification P00239:

CLIN	<u>ACRN</u>	FUNDING AMT	CLIN TOTAL
CLIN 0001	AA	440,100.00	
CLIN 0001	AD	0.00	
			440,100.00
CLIN 0003	AB	2,298,235.00	
CLIN 0003	AC	17,832,987.00	
CLIN 0003	AD	0.00	
CLIN 0003	AE	7,500,000.00	
CLIN 0003	AF	3,300,000.00	
CLIN 0003	AG	17,192,400.00	
CLIN 0003	AH	700,000.00	
CLIN 0003	AM	17,045,000.00	
CLIN 0003	AN	5,800.00	
CLIN 0003	AP	20,779,000.00	
CLIN 0003	AS	0.00	
CLIN 0003	AT	6,984,678.52	
CLIN 0003	AW	100,000.00	
CLIN 0003	AY	550,000.00	
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CLIN 0005	BB	146,000.00	
CLIN 0005	BC	72,000.00	
CLIN 0005	BD	85,000.00	

CLIN 0005	BE	100,000.00	
CLIN 0005	BF	100,000.00	
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CLIN 0005	ВН	38,018,908.00	
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CLIN 0017AA	KM	192,793,000.00	
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CLIN 0017AA	KU	2,203,183.00	
CLIN 0017AA	KY	0.00	
CLIN 0017AA	LC	200,000.00	
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CLIN 0017AA	LW	\$255,567.00	
CLIN 0017AA	LX	\$68,000.00	
CLIN 0017AA	LY	\$264,135,933.26	
CLIN 0017AA	MB	\$375,000.00	
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CLIN 0017AA	ME	\$0.00	
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CLIN 0017AA	MH	\$213,390.00	
CLIN 0017AA	MJ	\$858,495.00	
CLIN 0017AA	MK	\$56,076.00	
CLIN 0017AA	ML	\$116,044.00	
CLIN 0017AA	MM	\$1,618,600.00	
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CLIN 0023	LF	10,000.00	
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			297,500.00
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CLIN 0024	LA	13,508.00	
CLIN 0024	LG	62,000.00	
CLIN 0024	KZ	25,000.00	
CLIN 0024	KW	20,000.00	
CLIN 0024	LP	83,200.00	
			203,708.00
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CLIN 0025	LM	1,080,404.00	
C2111 0023	Livi	1,000,707,00	
CLIN 0025	MA	0.00	
			2,254,254.00

CLIN 0026	LN	630,061.00	
		630,061.0	0
CLIN 0027	LZ	1,751,384.00	
		1,751,384.0	0
CLIN 0028	LM	329,972.00	_
CLIN 0028	MA	2,982,442.00	
CLIN 0028	MG	6,262,095.00	
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(End of Summary of Changes)

JOINT LAND ATTACK CRUISE MISSILE DEFENSE ELEVATED NETTED SENSOR SYSTEM (JLENS)



SYSTEM DEVELOPMENT AND DEMONSTRATION (SDD) PROGRAM

STATEMENT OF WORK SW-JLENS-SDD-2006

30 November 2006 Revised 1 September 2011

Contract Line Item Number 0017AA

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The primary objective of the JLENS System Development and Demonstration (SDD) Program is

1 INTRODUCTION

1.1 Objectives

to provide	(b)(3)(A)
The JLENS SDD Program is for the design, development,	
procurement, fabrication, integration, testing and delivery of two JLENS Orbits.	
1.2 System Description	
The JLENS Orbit is a dual aerostat-based surveillance and fire control sensor system. The	
surveillance system and the fire control system together make up an Orbit, although each are capable of	
operating as part of the Orbit or autonomously. The surveillance system consists of the surveillance	
radar, Communication and Processing Group (CPG) and platform. The fire control system consists of the	
fire control radar, CPG and platform. The Surveillance Radar (SuR) performs long-range 360 degree	
detection and tracking, while the	
The CPG serves as the JLENS data and signal processing, communications and aerostat	
flight control center. The platform consists of an aerostat, Mobile Mooring Station (MMS), ground	
support equipment (power conversion module, cable storage module and weather equipment) and tether.	
The aerostat carries the radar payloads to altitude. The MMS anchors, launches and recovers the aerostat.	
The powered, fiber-optic tether connects the MMS to the aerostat, furnishes power to the payloads and is	
used to pass data between the processing station and the aerostat. The communication subsystem (part of	
the CPG) is the means for movement of internal and external data.	
	(b)(3)(A)
In addition, JLENS will contribute	(i)&Title 10 Sec 130
	(a)(b)

1.3 Scope

This Statement of Work (SOW) defines the requirements for the JLENS SDD Program.

Technical requirements are contained in the JLENS System Performance Specification (MIS-PRF-55628). The contractor shall design, develop, procure, fabricate, integrate, test and deliver two JLENS Orbits that meet the requirements of this SOW and MIS-PRF-55628. Only one Orbit will be deployable at the end of the SDD Program. A second set of full spares & refurbishment of the second Orbit after climatic, E3 and transport testing is not required.

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1.4 Integrated Product Teams (IPTs)

The JLENS Orbit shall be developed using a partnership between the Government and industry. The IPTs shall be the basis of that partnership. The contractor shall implement IPTs as an integral part of the JLENS SDD Program. The IPT structure developed shall follow the Contract Work Breakdown Structure (CWBS). The contractor shall be an integral member of Government IPTs and the Government will be an integral member of contractor IPTs. All contractor IPT documents shall be made available to the Government IPT members. The contractor shall develop an IPT plan to include charters for all contractor IPTs and sub-IPTs, membership of each IPT and sub-IPT, methodology for Government interaction, communication plan, schedule of meetings and make the plan available electronically to all IPT Government/contractor members. All IPT charters shall be approved by the Government as part of the Program Management Plan. The IPT or sub-IPT charters shall detail the roles, responsibilities and authority of its respective IPT or sub-IPT members, both contractor and Government.

2 INTEGRATED PROGRAM MANAGEMENT

2.1 Integrated Cost, Schedule, and Technical Performance Management

The contractor shall utilize their internal performance management system to plan, schedule, budget, monitor, manage and report cost, schedule and technical status applicable to the contract. The contractor's internal performance management system shall serve as the single, formal, integrated system that meets both the contractor's internal management requirements and the requirements of the Government for timely, reliable and auditable performance information. The contractor's system shall satisfy the industry standards delineated in ANSI/EIA-748-1998. The contractor's system shall meet the guidelines and be maintained in accordance with the requirements of the revised Department of Defense (DoD) Earned Value Management (EVM) Policy issued by the DoD Under Secretary of Defense, Acquisition, Technology and Logistics. The contractor shall flow down EVM and reporting requirements to major subcontractors and Intra-Organizational Transfers (IOT) that, based on risk, schedule criticality and dollar value, have the potential to impact the successful completion of the program. The contractor shall relate technical accomplishment with cost and schedule accomplishment in contract performance reports and at IPT meetings/integrated program reviews. The contractor shall develop a Program Management Plan In Accordance With (IAW) DI-MGMT-80004. (Contract Data Requirements List (CDRL) B052)

2.2 Meetings and Reviews - Contractor Internal

The contractor shall identify, conduct, support, attend, document reviews and make assessments by which the degree of completion of technical and programmatic efforts related to major schedule

milestones can be made. The contractor shall notify and invite the Government to all such contractor and subcontractor reviews in a timely manner.

2.3 Meetings and Reviews - Contractor/Government

The contractor shall conduct quarterly program reviews. The program reviews shall address technical performance, risk and risk management, cost, software indicators and corrective actions, technical and schedule progress, program status, staffing and issues that could affect program execution. The contractor shall relate technical accomplishment to cost and schedule using earned value and the Integrated Master Schedule during program reviews. The contractor shall conduct program management level reviews at the request of the JLENS Product Manager. The contractor shall develop presentation material IAW DI-ADMN-81373 and meeting minutes and reports IAW DI-ADMN-81505.

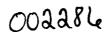
(CDRLs B014 and B001)

2.3.1 Integrated Baseline Review (IBR)

The contractor shall develop and maintain a comprehensive performance measurement baseline and support a Government led IBR. The contractor shall maintain baseline integrity and risk identification. The IBR will be conducted within ninety (90) days after definitization of the contract, exercise of options and major modifications as directed by the Government. The contractor shall flow-down the IBR requirement to those subcontractors that exceed the EVMS threshold (\$50M) on cost-type subcontracts. The contractor shall lead the subcontractor and IOT IBRs with active participation from the Government. (CDRL B014 and B001)

2.4 Integrated Master Plan (IMP) / Integrated Master Schedule (IMS)

The contractor shall develop and maintain an IMP / IMS IAW DI-MGMT-81650 that reflects key events/milestones, critical path, current status and completion forecasts. The contractor shall ensure that all activities are defined, resourced, controlled, scheduled, updated, monitored, reported and managed consistent with and supportive of the requirements set forth in this SOW. The contractor shall depict the overall structure of the program including the key processes, program events/milestones, significant accomplishments and activities as well as defining accomplishment criteria for each event in the IMP for the SDD Program. The IMP will serve as the basis for development of the IMS. The contractor shall develop a detailed IMS for the SDD Program consistent with the IMP, EVM, CWBS and CWBS Dictionary. The contractor shall logically link schedule tasks to reflect the manner in which the work is to be performed (including subcontractor/inter-organization transfer activities) resulting in the ability to analyze a critical path. (CDRL B002)



2.5 Contract Work Breakdown Structure

The contractor shall develop, implement and maintain a CWBS and CWBS Dictionary IAW DI-MGMT-81334 to the lowest level at which work is performed. The contractor shall use the CWBS as the primary framework for planning, monitoring, budgeting, controlling and reporting the status of program cost, schedules and technical performance. The contractor shall update the CWBS during the execution of the contract. The contractor shall submit justifications for proposed changes to CWBS. (CDRL B025)

2.6 Cost Reporting

2.6.1 Integrated Program Management Reporting

The contractor shall report EVM data. The contractor shall report to applicable CWBS elements. The contractor shall prepare a Contract Performance Report (CPR) IAW DI-MGMT-81466 and a Contract Funds Status Report (CFSR) IAW DI-MGMT-81468. The contractor shall reconcile the cost/schedule data elements in the CFSR with the CPR. The contractor shall provide a reconciliation of the CFSR and CPR as an addendum to the CPR. To maintain necessary visibility, the contractor shall report data separately on the CPR via the CWBS structure. (CDRLs B004 and B003)

2.6.2 Cost and Software Data Reporting

The contractor shall prepare Contractor Cost Data Reports (CCDRs) and Software Resources

Data Reports (SRDRs) in accordance with the JLENS Cost and Software Data Reporting Plan (CSDR)

(Appendix C). These reports include Contract Data Summary Reports (DD Form 1921) IAW DI-FNCL81565, Functional Cost Hour and Progress Report (DD Form 1921-1) IAW DI-FNCL-81566 and SRDR

(DD Forms 2630-2,3) IAW DI-MISC-80508. The contractor may customize or tailor the DD Forms
2630-2,3 to be consistent with data it normally collects. The contractor shall propose the software
measurement data within a Software Resources Data Collection Plan as part of the Software Development
Plan. The contractor is responsible for flowing down the requirements of this paragraph to all
subcontractors. (CCDR and CSDR Manuals are available from the Defense Cost and Resource Center
(DCARC) website http://dcarc.pae.osd.mil.) (CDRL B026, B027, B048, B049)

2.6.3 Program Cost Estimate

A Rough Order of Magnitude Cost for SDD program procurement, operations and sustainment of the JLENS Orbit, pertaining to the contractor portion only, shall be developed IAW DI-FNCL-80448. The estimate will contain the costs for the fire control radar, surveillance radar, processing station, communications, platform, system engineering, program management and system test and evaluation costs by fiscal year and with each component cost shown separately. The estimate shall contain the

assumptions used in developing the estimate and shall not be requested more than twice a fiscal year. A maximum of 12 estimates may be required. (CDRL B005)

2.7 Data Management

The contractor shall establish and implement a data management process that shall reproduce, catalog, store and deliver data items. The contractor shall make available all technical and programmatic data as requested by the Government. The contractor shall maintain a data repository for classified storage and an efficient means to accomplish fast and accurate classified data retrieval until the contractor is notified by the contracting officer that the Government classified repository is available for use. The contractor shall use the Government unclassified Management Information System (MIS) Portal for delivery of unclassified data. The contractor shall notify the Government Point of Contact (POC) designated on the corresponding CDRL via email when data is posted to the classified repository and the unclassified MIS Portal. The contractor shall include the filename and path to the posted data in the email. The Government POC designated on the corresponding CDRL will provide notification of CDRL receipt to the contractor via email. The contractor shall deliver data that is usable on personal computers using Microsoft Windows Operating System and Microsoft Office Application Programs.

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contractor shall ensure all electronic deliveries are free from viruses. The contractor shall support and provide input IAW DI-MGMT-81453 to the Government development of acquisition documentation. (B006)

3 SYSTEM ENGINEERING

3.1 General

The contractor shall conduct systems engineering and provide a system design that meets the requirements of this SOW and MIS-PRF-55628. The contractor shall be responsible for total system integration and performance to include supporting the Government in assessing and optimizing total system reliability. The configurations of the system and the prime items shall be documented in the Orbit, System and Subsystem Design Description, as described in the Design Notebook IAW DI-IPSC-81432. The contractor shall translate the analysis and allocation of requirements from MIS-PRF-55628 and prepare the requirements, functional, allocated and product baseline design in preparation for program milestones. This engineering effort shall be based on and shall incorporate the contractor's systems engineering process that includes requirements analysis, functional analysis/allocation and design synthesis. Systems engineering shall include Orbit, system and subsystem engineering requirements allocation, specification production and configuration management, system analyses, tactical hardware,

tactical software, tactical ground support equipment, risk management, radio frequency management, test requirements/plans, interface management and integration, safety, modeling and simulations, Cost as an Independent Variable (CAIV) and technical reviews and meetings. The contractor shall develop and submit a Systems Engineering Management Plan (SEMP) IAW DI-MGMT-81024 that clearly defines the JLENS systems engineering process. (CDRLs B008 and B044)

3.2 Systems Engineering Process

The contractor shall apply the principles of systems engineering and implement the requirements of MIS-PRF-55628 during the design work. The systems engineering process shall include all aspects of the design to include: external interfaces, supportability, logistics feasibility, environmental requirements, manpower and personnel, human factors, safety, supply support, support and test equipment, technical documentation, computer resources support, packaging, handling, storage and transportability, hazardous material handling and disposition, facilities, Reliability, Availability and Maintainability and Training (RAM-T).

3.3 System Engineering Requirements Allocation

The contractor shall develop a Specification Tree IAW DI-MISC-80508 for the JLENS Orbit to the equivalent of the Orbit, system and subsystem level. The contractor shall flow down the requirements from the MIS PRF 55628 to the equivalent of the Orbit, system and subsystem level. The Specification Tree shall be a top down diagrammatic representation of the breakdown of specification from the top specification (system performance specification) to lower level specifications (e.g. Prime Item Development Specification, Interface Control Document, Critical Item Development Specification, Software Requirements Specification, Source Control Document). The Specification Tree shall show the interdependency of specifications and form a convenient medium for the cataloging of applicable specifications. The contractor shall define and document the requirements in hardware IAW DI-SDMP-81465 and software IAW DI-IPSC-81433 specifications. The contractor shall develop Interface Control Documents for internal and external interfaces IAW DI-CMAN-81248. The contractor shall develop and maintain design documentation that will allow the contractor to replicate the JLENS hardware and software. The contractor shall document the design that meets the requirements and supporting analyses in a Design Notebook, such as the Engineering Design Notebook, and supporting documents such as a System Subsystem Design Document (SSDD), and with software design documents as identified in the Software Development Plan. The Design Notebook shall contain the key analyses and tradeoff studies conducted to support performance requirements, design and design tradeoffs. The Design Notebook shall include key parameters and assumptions used to determine hardware/software specification requirements. The Design Notebook shall contain a description of the system architecture that is being developed and

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fabricated. This description shall be provided in terms of visual descriptions, performance estimates and physical description. The Government shall have access, for use at Government facilities, to all requirements traceability database files, to include current and previous baselines. (CDRLs B007, B009, B029 and B010)

3.4 System Analyses

with the requirements of MIS-PRF-55628.

The contractor shall conduct analyses that establish the

Performance analyses and trade studies shall be completed and system design shall be updated prior to design reviews to reflect the results of the trade studies. All trade studies shall include CAIV. All analyses and trade studies generated under this section shall be included in the Design Notebook. (CDRL B008)

The contractor shall conduct performance analyses to support the system designs in accordance

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3.5 Producibility and Manufacturing

The contractor shall implement a producibility and manufacturing program that incorporates producibility and manufacturing into the design. This program shall include design strategies to address obsolescence, production readiness reviews, producibility planning and manufacturing technology insertion, associated with manufacturing and production. The contractor shall prepare Producibility Analysis Reports IAW DI-MGMT-80797. (CDRL B020)

3.5.1 Production Engineering and Transition Planning

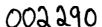
The contractor shall develop and implement a manufacturing strategy IAW DI-MGMT-80790 that facilitates a smooth and orderly transition from development to low rate production. (CDRL B041)

3.5.2 Producibility

The contractor shall consider producibility in design decisions. Efforts to make the design more producible shall be directed toward achievement of cost goals and ensure manufacturing capabilities support the design. The contractor shall establish and maintain a system for measuring and reporting manufacturing costs.

3.5.3 Manufacturing Plan

The contractor shall prepare a manufacturing plan IAW DI-MGMT-80004 for the most economical set-up based on anticipated Low Rate Initial Production (LRIP) and Full Rate Production (FRP) delivery rates. Manufacturing planning and tooling is based upon a planned LRIP rate of one system per year (FY12 and FY13), a planned FRP rate of one system per year (FY14 and FY15) and a



FRP rate of two systems per year (FY16, FY17, FY18, FY19, FY20). The contractor will identify critical JLENS hardware in the manufacturing plan. The manufacturing plan shall describe and document the manufacturing processes for critical JLENS hardware and the plan to transition this hardware to LRIP. The term "critical hardware", as used throughout section 3.5 of this SOW, is defined as hardware that fits one or more of the following criteria:

- a. utilizes manufacturing processes for which a facility or supplier does not have a proven history of continuous production at a volume similar to that planned for JLENS.
 - b. utilizes manufacturing tests which are unique to JLENS.
- c. utilizes manufacturing processes such that conformance to requirements cannot be verified by inspection or test and if deviated from could affect product performance or safety. (CDRL B062)

3.5.4 Production Qualification

The contractor shall prove-out production representative manufacturing processes, test and inspection equipment, test procedures, work instructions and tooling for the JLENS critical hardware.

3.5.5 Production Pilot Lines

Pilot production lines shall be established for critical hardware items, as early as design maturity allows during the SDD Program. Pilot lines shall be validated prior to LRIP Production Readiness Review (PRR) and shall be used to manufacture hardware used for operational test. The Production / Process Verification (PPV) shall be performed on specified critical items to verify production processes are in accordance with the design, manufacturing, inspection and test documentation.

3.5.6 Production Readiness Review (PRR)

The contractor shall conduct PRRs, with Government participation, for all prime items and their associated critical hardware as defined in paragraph 3.5.3. The PRRs are a formal assessment of the contractor's ability to produce hardware and are the basis of a Government Production Readiness Assessment. The contractor shall develop presentation material IAW DI-ADMN-81373 and meeting minutes and reports IAW DI-ADMN-81505. (CDRL B014, B001) Accepted as Modified.

3.5.7 Special Tooling (ST), Special Test Equipment (STE), Special Inspection Equipment (SIE) and Peculiar Support Equipment (PSE)

The ST, STE, SIE and PSE designs shall represent production configuration and meet production rates as individual equipment or by duplication. During the design of the STE, SIE and PSE, consideration shall be given to standardization of common components to reduce spare parts required to support production. When ST/STE is used as a medium of inspection, the calibration, verification and reverification procedures of the ST/STE shall be included in the quality program planning.

3.5.8 Facilitization Plan

The contractor shall develop and document IAW DI-MGMT-80004 the initial, and any follow-on, production facilitization requirements to support planned production rates. This includes all facilities, production equipment, test equipment and special equipment required to produce the JLENS Orbit. (CDRL B056)

3.6 Hardware Development

The contractor shall design, develop, fabricate, assemble, integrate, test, evaluate, document, deliver and support all JLENS hardware. The contractor has the responsibility for ensuring that hardware designs and deliverables meet the requirements of the MIS-PRF-55628 and this SOW. The contractor shall complete and document the conceptual and developmental design drawings/models IAW MIL-DTL-31000 of all JLENS hardware IAW DI-DRPR-80651. The contractor shall ensure compatibility of all functional and physical interfaces. The contractor shall conduct trade studies and analyses as required to accomplish a design that is cost effective and reliable. The contractor is encouraged to use commercial products, processes and practices that will reduce development, production and operational support costs. The contractor shall develop an Acceptance Test Plan (ATP) for hardware critical items IAW DI-QCIC-80553. The contractor shall provide and maintain sufficient hardware to meet the requirements of this contract. The contractor shall be responsible for total support of the hardware, including all maintenance and provision of spare/repair parts. Beginning with each Prime Item CDR, the contractor shall develop and implement a closed-loop Failure Reporting, Analysis and Corrective Action System (FRACAS) for hardware failures IAW DI-RELI-81315. This system shall be used to resolve detected hardware problems. The contractor shall document each detected hardware problem and corresponding corrective action. This system shall include/incorporate company or commercial best practices and shall be of sufficient detail to meet the program requirements and ensure program success. (CDRLs B057, B042, and **B061**)

3.7 Software

3.7.1 Software Reuse

The contractor shall report reuse metrics including but not limited to size, breakage factor by SI, identification of changes required and proposed validation of change in regular Government/contractor IPT meetings and Technical Interchange Meetings and as identified in the Software Development Plan (SDP).

3.7.2 Software Engineering Environment (SEE)

The contractor shall establish, control and maintain configuration of a SEE. The SEE shall provide the facilities, hardware, software, firmware, procedures and documentation needed to perform software development and software testing at each development facility. Elements may include, but are not limited to, Computer Aided Software Engineering (CASE) tools, software development library, software development files, compilers, assemblers, linkers, loaders, operating systems, debuggers, simulators, emulators, documentation tools, database management systems, code analyzers, test case generators and path analyzers. Government shall have access, on a non-interfering and read-only basis, to all the elements of the SEE to support System Software Engineering, QA, CM and Independent Verification &Validation (IV&V) efforts.

3.7.3 Software Development

The contractor shall develop, document, submit and implement a SDP which includes a description of the SEE IAW DI-IPSC-81427. The contractor shall develop, document and deliver an Interface Requirement Specification IAW DI-IPSC-81434. The contractor shall document the requirements traceability for each software item in a Software Requirements Specification IAW DI-IPSC-81433. The contractor shall design, develop, integrate and deliver software that meets the requirements of the Software Requirements Specifications and Interface Requirements Specifications. The contractor shall deliver software including, but not limited to, all executable software, source files, build and make files and software support information developed under the JLENS Contract IAW DI-MCCR-80700. These deliveries shall include formal and interim software builds. Except as provided in the Limited/Restricted Rights Assertion Section of the contract, software source code developed under this contract will be in accordance with the Software Source Code License, Number JLENS-WSLA-01 (DFARS Clause 252.227-7014(b)(4)). Submission of any proprietary source code will be for JLENS Product Office analysis and IV&V purposes only, on an as required basis, in accordance with a mutually agreed upon no fee license. If the JLENS Product Office analysis and IV&V is performed by a non-Government entity, then a Non-Disclosure Agreement with that entity, specifically protecting the proprietary source code software will be put in place prior to submission of any source code material. The software binaries and source code shall be delivered with checksums to verify data integrity. The contractor shall develop and document the interface design in an Interface Design Description (IDD) for each Computer Software Configuration Item (CSCI) IAW DI-IPSC-81436. The contractor shall document the design decisions, algorithm descriptions and the architectural designs in a Software Design Description (SDD) Document for each CSCI IAW DI-IPS-81435. (CDRLs B011, B032, B029, B023, B021 and B033)

3.7.4 Software Testing

The contractor shall develop, document and implement a software test plan IAW DI-IPSC-81438 for software testing. The contractor shall conduct unit testing for all new and modified software units. The contractor shall conduct unit or Software Item (SI) level testing for all safety critical and safety related software. The contractor shall conduct unit integration testing for all software units. The contractor shall document the specific unit and unit integration test cases and related test procedures. The contractor shall verify all of the requirements in the Software Requirements Specifications (B029), each in accordance with the specified qualification method. The contractor shall invite the Government to witness all software qualification testing. The contractor shall document and deliver a Software Test Description (STD) IAW DI-IPSC-81439 for each release of a CSCI. The STD describes the test preparations, test cases, test procedures and method to be used to perform Software Qualification Testing (SQT) of each release of a CSCI or a software system or subsystem. The contractor shall conduct software qualification testing IAW the STD for each software release. All SQT, or other software test events shall be performed using tactical representative hardware and test tools, where available. The contractor shall provide evidence to the Government to substantiate test tools as a valid engineering representation of system behaviors. The contractor Software Quality Assurance (SQA) personnel shall witness or audit all SOT events. The contractor shall document and deliver a Software Test Report IAW DI-IPSC-81440 for each release of a CSCI. The Software Test Report is a record of the testing performed on a CSCI, a software system or subsystem or other software-related item. (CDRLs B035, B036 and B037).

3.7.5 Software Version

The contractor shall develop and maintain software documentation and code that will allow the contractor to replicate and modify the JLENS Software at each phase of the release process, utilizing a version control and tracking system in a Software Version Description (SVD) document for each release of a CSCI. The SVD shall be prepared IAW DI-IPSC-81442. The contractor shall document the exact version of each software release. The contractor shall include in the documentation the descriptions of the capabilities and limitations of each software version, the patches and fixes from previous versions and the completed and outstanding software problem reports. The contractor shall provide maintenance support for all software throughout the continuance of the contract. (CDRL B024)

3.7.6 Software Installation

The contractor shall develop, maintain and deliver a Software Installation Plan IAW DI-IPSC-81428 to include procedures for software installation, software update procedures, software operations,

database initializations, prime item interfaces and other system specific information necessary to ensure the JLENS Orbit is operational. (CDRL B038)

3.7.7 Software Reviews

The contractor shall perform Software Requirements Review (SRR), Software Critical Design Review (SCDR) and Software Test Readiness Review (STRR) for the following software builds: FCR Builds 2 and 3, SuR Builds 2 and 3, CPG Builds 3 and 4 and platform final software build.

3.7.7.1 Software Requirements Review

The contractor shall host one or more SRRs IAW the program schedule to review the development activity and its output in the context of the overall system and platform requirements. The SRR shall provide a formal transition from the project requirements analysis and planning phase into development. The contractor shall assure the Government that all the affected requirements have been identified and the proposed development project has been sufficiently planned and documented to the Government's satisfaction. All software CSCIs shall be identified and WBS elements and metrics reporting for each software CSCI level shall be addressed. The first SRR for a prime item shall be conducted prior to or in conjunction with the prime item PDR. The contractor shall develop presentation material IAW DI-ADMN-81373 and meeting minutes and reports IAW DI-ADMN-81505. (CDRL B014 and B001)

3.7.7.2 Software Critical Design Reviews

The contractor shall host one or more software CDRs (SCDR) IAW the Program Software Release Schedule, to review the detailed design and operational and support documents to demonstrate to the Government's satisfaction that the detailed design satisfies the system, subsystem and unit level software requirements; the simulations and models accurately reflect the system, subsystem and unit level software performance parameters; the external ICDs and internal IDDs accurately reflect the system interfaces as dictated by the system and sub-system specifications; and the software interfaces and software engineering documentation accurately reflect and are in compliance with the ICDs hardware/software interface requirements. The contractor shall develop presentation material IAW DI-ADMN-81373 and meeting minutes and reports IAW DI-ADMN-81505. (CDRL B014 and B001)

3.7.7.3 Software Test Readiness Reviews

The contractor shall host one or more software TRRs (STRRs) IAW the program software release schedule in support of system and subsystem software qualification tests. The reviews shall address test objectives, schedules, safety, configuration, data requirements and suitability of the test hardware and/or software to support the test objectives IAW the STP. All test procedure steps shall be reviewed to ensure

each software requirement has been demonstrated. The contractor shall provide adequate assurance that the SQT shall be performed using tactical representative hardware where available. Results of STRR must be reviewed and approved by the Government prior to proceeding to SQT. The contractor shall develop presentation material IAW DI-ADMN-81373 and meeting minutes and reports IAW DI-ADMN-81505. (CDR B014 and B001)

3.7.8 Software Failure Reporting and Corrective Action

The contractor shall develop and implement a closed-loop FRACAS for all failures occurring during system debugging, checkout, engineering tests and contractor maintenance. This system shall be used to resolve detected software problems once each prime item CDR has been conducted. The contractor shall document each detected software problem and corresponding corrective action once each prime item CDR has been conducted. This system shall incorporate company or commercial best practices and shall be of sufficient detail to meet the program requirements and ensure program success. (CDRL B061)

3.7.9 Management Indicators

The contractor shall collect, interpret, use and report software management indicators as described in the SDP. The contractor shall address software management indicators and corrective actions at the program reviews. The contractor shall develop presentation material IAW DI-ADMN-81373. (CDRL B014)

3.7.10 Firmware

The contractor shall identify all developed and / or modified firmware, its location within the JLENS system, its associated functionality and a safety analysis including rationale and traceability to any related hazard(s). Rationale shall be provided to exclude the software associated with these devices from the software category. The contractor shall develop software for programmable hardware identified as software IAW the SDP and shall identify these items IAW DI-IPSC-81435. Otherwise, the contractor shall develop the software for programmable devices identified as hardware IAW internal best practices. These best practices shall be presented to the Government for review. (CDRL B033)

3.8 Interface Management and Integration

The design shall be modular to the maximum extent possible and shall facilitate substitution of alternate payloads from a separate source. This requirement shall be satisfied by submission of the JLENS System Interface Control Document (ICD). The ICD outline will be such that the 'as designed' interface between the payload and platform can be separately delivered upon request. (CDRL B010)

3.9 Support to Software IV&V and Other Efforts

The contractor shall support the establishment of the Government Software Integration Lab (SIL), modeling and simulation efforts, as well as the government managed Orbit-level software assessments and SIV&V testing. This support will include support to the weekly status teleconferences, accepting and dispositioning trouble reports and providing assistance in software configuration and installation within the Government SIL. This software support will not exceed 1.5 full time equivalents through the end of the SDD contract..

3.10 Safety

The contractor shall conduct system safety engineering and use the Government provided Hazard Tracking System (HTS) database in support of all design, development and test activities. The HTS database, including all data and records, shall be the property of the Government. The contractor shall conduct a System Safety Program (SSP) consistent with MIL-STD-882D, standard practice for system safety and as guidance the JLENS System Safety and Health Management Plan (SSHMP). Hazards shall be defined as outlined in MIL-STD-882D. The contractor shall prepare Safety Assessment Reports (SAR) IAW DI-SAFT-80102. The contractor shall prepare the System Safety Program Plan IAW DI-MGMT-80004. The contractor shall ensure that subcontractor's safety plans are in conformance with the contractor's safety plan. The safety design features of all electronic equipment shall be implemented using MIL-HDBK-454A as guidance. The aerostat shall meet appropriate safety requirements for airborne platforms as specified by the Federal Aviation Administration (FAA). The JLENS Orbit hardware and software, to include data displays, shall be designed to optimize the functionality and efficiency of operations for sustained periods of high activity in accordance with MIL-STD-1472F, as applicable. The contractor shall conduct a Human Factors Engineering (HFE) Program using MIL-HDBK-46855 as guidance. All hazards, to include single point failures, single point human errors and any combination of failures and human errors shall be eliminated through design, or mitigated to a Government acceptable risk level as defined in MIS-PRF-55628 paragraph 3.15.1 and MIL-STD-882D. Throughout the life cycle of the JLENS Orbit, the hardware and software shall mitigate all hazards that could cause personal injury, equipment damage or have an environmental impact. The Software Safety Program shall be implemented using MIL-STD-882. The Joint Software System Safety Committee (JSSSC) Software System Safety Handbook shall be used as guidance. (CDRL B012 and B045)

3.11 Modeling and Simulation

The contractor shall develop models and simulations under the guiding tenets of Simulation and Modeling for Acquisition, Requirements and Training (SMART). The SMART is defined in Department of the Army Pamphlet 5-12, the "Planning Guidelines for SMART" and the "SMART Execution Plan."

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These documents are maintained by the Army Model and Simulation Office

(http://www.amso.army.mil/smart/documents/guidelines/). The ultimate goal of SMART is to provide systems with greater utility at lower cost, minimizing risk and reducing operations and sustainment budgets. The contractor shall prepare a Simulation Support Plan IAW DI-MGMT-80004. (CDRL B046)

3.11.1 Engineering Modeling and Simulations

The contractor shall provide access to simulation tools that will be used by the contractor for requirements verification. The contractor shall provide simulation source code, executables and available documentation used for contractor verification and validation of the simulation IAW DI-IPSC-81441. The contractor shall make simulation results available for Government review IAW DI-MISC-80048. (CDRL B034 and B013)

3.11.2 System Integration Laboratory (SIL)

The contractor shall develop and maintain a SIL consisting of simulations, models, hardware and software. The SIL shall support the integration of hardware and software. The contractor shall develop and submit a SIL Validation Plan IAW DI-MGMT-80004 that describes how the contractor validates all SIL capabilities used in the verification of prime item hardware and software performance. (CDRL B053)

3.12 Technical Reviews and Meetings

3.12.1 Design Reviews

The contractor shall conduct SDD Program contract milestone reviews to include, but not limited to, the System Requirements Review (SRR), System Functional Review (SFR), Preliminary Design Reviews (PDRs) and Critical Design Reviews (CDRs) at the contractor's facilities. sAt each milestone review, the contractor shall address Orbit and system level design integration and shall summarize each prime item's role within the system. Contractor conducted Subsystem Readiness Reviews (i.e., Prime Item PDRs and CDRs) shall include Government participation. The contractor shall develop presentation material IAW DI-ADMN-81373 and meeting minutes and reports IAW DI-ADMN-81505. (CDRLs B014 and B001)

3.12.2 Design Review Entrance Criteria

To facilitate an event driven approach to design reviews, the contractor in collaboration with the Government shall define the process and timeline for developing entrance criteria for all planned reviews in the SEMP.

3.12.3 Design Review Exit Criteria

To facilitate an event driven approach to design reviews, the contractor, in collaboration with the government, shall define the process and timeline for developing exit criteria for all planned reviews in the SEMP.

3.13 INFORMATION & TECHNOLOGY ASSURANCE

3.13.1 General

The JLENS Orbit will maintain an appropriate level of confidentiality, integrity, authentication, non-repudiation and availability that reflect a balance among the importance and sensitivity of the information; documented threats and vulnerabilities; the trustworthiness of users and interconnecting of other systems; and the impartment to connectivity and/or the impact of destruction or loss of the system.



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3.13.3 Information Assurance (IA)

The contractor shall support the Government managed IA Program IAW AR 25-1, Chapter 5 and AR 25-2. The contractor shall implement DoDI 8500.2 ensuring confidentiality, integrity and availability throughout the JLENS SDD Program. The contractor shall implement the JLENS IA Strategy dated 25 April 2005. The contractor shall appoint a primary and alternate POC. Each POC shall become familiar with applicable documents such as: DoD, Army Directives Pamphlets and regulations on IA and participate in JLENS sponsored IPTs. The contractor shall send IA appointment letters showing the POC names to the JLENS Product Office annually and certify that the individuals have conducted self study on applicable directives on IA (or within thirty (30) days of a POC change). The contractor shall ensure that all IA enabled products incorporated into JLENS SDD Program to perform security functions comply with the evaluation and validation requirements of the National Security Telecommunications and Information Systems Security Policy 11, in accordance with DoDD 8500.1. The contractor shall comply with paragraph 4.17 of DoDD 8500.1. IA enabled products that have IA functionality that is not used shall have that functionality disabled.

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3.13.4 DoD Information Assurance Certification and Accreditation Process (DIACAP)

The contractor shall comply with DIACAP in accordance with OSDCIO Memo July 6, 2006 Subject: Interim Department of Defense Information Assurance Certification and Accreditation Process Guidance. The contractor shall assist the Government in all applicable phases of the Certification and Accreditation (C&A) process. The contractor shall be an active participant in the JLENS IA Working Group to provide technical assistance during the C&A process.

3.13.5 DoD Core Architecture Data Models (CADM)

The DoD Architecture Framework (DoDAF) defines a common approach for DoD architectures. The DoD CADM is the underlying set of products within DoDAF. The CADM incorporates the term integrated architectures and is comprised of a number of specific models, definitions and views as specified in the DoDAF documentation and are categorized into operational views, system views and technical views. The contractor shall support the Government managed development of the DoDAF documentation to further define and implement the system views and technical views models so that all data entities shall be fully attributed and ensure the use of DoD standard data elements. The contractor shall support the Government in further definition and specific analysis of information requirements essential to support development of essential architecture products contained in the JLENS Information Support Plan.

3.13.6 Transient EMission of PulsE Surveillance Technology (TEMPEST)

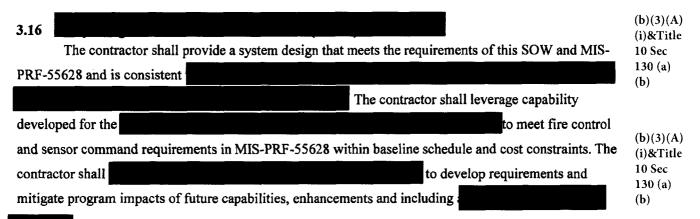
The JLENS System is a transportable system in a tactical environment. The contractor shall follow Government regulation NSTISSAM TEMPEST / 2-95, 2-95a, DoDD S-5200.19 and Memorandum Number 20063301, US Army TEMPEST Office CTTA, as guidance. Deviation from these regulations will require coordination through the Government to the cognizant CTTA. The US Army TEMPEST Office will fully address any additional technical guidance or interpretation of the JLENS TEMPEST design as requested by the contractor and approved through the JPO.

3.14 DoD Information Technology Standards Registry (DISR)

The contractor shall maintain the JLENS technical architecture profile in accordance with DISR. The contractor shall develop and deliver IAW DI-MISC-80508 an implementation strategy that details how and to what extent the JLENS development will comply with the provisions of the applicable portion(s) of the DISR. The contractor will provide inputs to the Government for the Government to include into the Government managed DISR database. Government approval is required prior to any deviations from the DISR requirements (DISR replaced the Joint Technical Architecture). (CDRL B043)

3.15 DoD Net-Centric Data Strategy

The contractor shall support the implementation of the DoD Global Information Grid (GIG). The GIG is the globally interconnected, end-to-end set of information capabilities associated processes and personnel for collecting, processing, storing and disseminating information for the warfighter. The contractor shall use, develop or refine metadata in accordance with the Defense Information Systems Agency established DoD Metadata Registry and based on the International Organization of Standards 11179 Specification for metadata registries. The contractor shall maintain a JLENS Metadata Registry, which for DoD currently incorporates existing resources such as the DoD Extensible Markup Language (XML) Registry, the Defense Data Dictionary System and commonly used reference sets. The contractor shall integrate other resources such as messaging formats, symbology, ontologies and transformation services.



4 RISK MANAGEMENT

The contractor shall develop and implement a Risk Management Plan IAW DI-MGMT-80004 and processes that identifies and prioritizes risk area, and conduct mitigation effort in coordination with the Government to reduce and/or eliminate program risks. The Risk Management Plan should address, but not be limited to, requirements, technology, design and engineering, manufacturing, support, cost and schedule. (CDRL B058).

5 TEST AND EVALUATION

5.1 General

The contractor shall develop and conduct a contractor Test and Evaluation (T&E) Program, develop and participate in a combined Government/contractor developmental flight T&E Program and

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support Government only T&E programs. The contractor's T&E program shall demonstrate that the requirements contained in MIS-PRF-55628 have been verified. The contractor shall maintain traceability from MIS-PRF-55628 to the contractor generated orbit, system and subsystem requirements when defining or developing required tests. The contractor shall verify the hardware and software requirements included in the JLENS system and subsystem specifications. The contractor shall submit a final report IAW DI-NDTI-80809 for any requirement that has been verified by analysis. The contractor shall allow Government monitoring and/or participation in contractor and subcontractor tests and demonstrations. The contractor shall provide the Government electronic notification a minimum of ninety six (96) hours prior to initiation of conduct of contractor or subcontractor, subsystem and system, tests that have Government approved test plans. The contractor shall perform component and subsystem level testing to include prime item tests, integration tests and system tests and/or demonstrations. The contractor shall conduct Test Readiness Reviews (TRRs) prior to system ground tests, elevated tests and system flight tests. The contractor shall submit agendas IAW DI-ADMN-81373 and minutes IAW DI-ADMN-81505 for the TRRs. The contractor shall be capable of reducing and analyzing data recorded during Orbit and system testing within 48 hours or 24 hours if target telemetry data is made available by the Government within 8 hours of test completion, to expedite test schedule decision planning. The contractor will preplan and coordinate periods of use of the Government operated test ranges with the JLENS Product Office. The Government will accommodate 24/7 operations as needed to support requirements testing in accordance with range availability and limitations. (CDRLs B015, B016, B014, and B001)

5.2 Test Plans, Reports and Reviews

The contractor shall prepare and submit test plans IAW DI-NDTI-80566 and test reports IAW DI-NDTI-80809 for Orbit, system, subsystems and components. The Master Test Plan shall address the entire test program including performance and integration testing and demonstrations at the contractor/subcontractor facilities and at Government field test sites. The contractor shall prepare and submit a test report for each test event for which a test plan is prepared. (CDRLs B015 and B016)

5.3 Stimulator Integration

The contractor shall support the integration of the JLENS Stimulator with the JLENS Orbit. The contractor shall provide support in the Government performance evaluation of the JLENS Fire Control and Surveillance Systems using the JLENS Stimulator to conduct Simulation only and Simulation Over Live testing. The contractor shall support integration testing of the JLENS stimulator at the Surveillance and Fire Control SILs. Contractor support for these activities will not exceed 2.4 full time equivalents over the period October 2006 through September 2011. The contractor shall provide an

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Interface Control Document IAW DI-CMAN-81248 to define the integration of the stimulator into the JLENS Surveillance and Fire Control Systems. (CDRL B010)

5.4 System Tests/Demonstrations

If requested under the changes clause of this contract, the contractor shall support the planned Government events such as to demonstrate incremental and full system capability.

(b)(3)(A) (i)&Title 10 Sec 130 (a)(b)

5.5 Government Test Support

The contractor shall support the Government in the conduct of JLENS Government tests IAW MTP. The contractor shall be responsible for providing and maintaining test articles (hardware and software) at the Government designated test sites. Contractor support in the case of Government E3 and Environmental Testing shall include review of test plans and test procedures, personnel, test fixtures, test equipment, the ability to determine functionality of the test item/s during and/or after each test event and a repair plan schedule consistent with the test schedule. The contractor shall support Government conducted TRRs. Government testing includes engineering tests and tests involving the use of soldiers. The contractor shall assist the Government with planning, collection, reduction, analysis and reporting of test data. These tests may be conducted concurrently with contractor tests.

5.6 Models and Simulations Verification, Validation and Accreditation (VV&A) Support The contractor shall support Government managed VV&A.

5.7 Interoperability Test Program

The contractor shall provide level of effort support to the Government conducted Interoperability Testing Program 1 full time equivalent (FTE) person for the period through end of SDD contract.

6 SPECIALTY ENGINEERING

6.1 Logistics

6.1.1 Logistics Program

The contractor shall continue to develop, update and maintain the JLENS Logistics Program in accordance with Army Regulation 700-127. The contractor's logistics program shall use these iterative processes that provide for early and continued logistics influence on design to enhance supportability: Identify and verify requirements and associated documentation for support of testing, minimize future operations maintenance costs; identify and resolve logistics issues early in the program to include

Manpower Personnel Integration (MANPRINT) and training issues, document pre and post-fielding support requirements; support fielding and deployment; and implement performance-based support.

6.1.2 Logistics Engineering

As an integral part of the systems engineering process, the contractor shall conduct logistics engineering to satisfy the requirements of MIS-PRF-55628 and to minimize the total Operation and Support (O&S) costs of the JLENS SDD Program plus all of its associated Government Furnished Property (GFP) requirements. Logistics engineering shall include all the elements of Integrated Logistics Support (ILS). Within the JLENS support structure, the contractor shall emphasize maintainability, availability and transportability engineering. The contractor shall develop a two-level support system (field and sustainment) for JLENS peculiar items. For GFP, the contractor shall consider the implications of the compatibility of existing logistics support structures (i.e. 3-level support systems) in the over-all context of engineering the JLENS support system.

6.1.3 Supportability Analysis

The contractor shall establish and conduct a Supportability Analysis (SA) Program in accordance with MIL-HDBK-502 that integrates and optimizes ILS/MANPRINT requirements within system performance requirements (including GFP) for the life-cycle of the system. The SA Program shall be used to generate source data for the development of ILS/MANPRINT requirements, evaluation of the effect of design alternatives on support costs and operational readiness, assessment of logistics risks, translation of hardware design due to logistics support requirements, determination of logistics design constraints/impacts, determination of the most efficient and effective logistics resources for operation and support the JLENS Orbit and development of the data for logistics products (training, spares, support equipment, technical manuals, etc.).

6.1.4 Level of Repair Analysis

The contractor shall conduct a Level of Repair Analysis (LORA) in accordance with MIL-HDBK-502 to define optimal maintenance planning and engineering in accordance with MIL-HDBK-470A. The contractor shall record the results of LORA in the Logistics Management Information (LMI) IAW DI-MISC-80508. (CDRL B050)

6.1.5 Trade-Off Analysis

The contractor shall perform Trade-Off Analysis (TOA) of alternatives to reduce the total logistics footprint of the JLENS Orbit (plus GFP) and the size/scope of the total GFP required to:operate, support, transport and deploy the system. The contractor will deliver the TOA IAW DI-MISC-80508. (CDRL B051)

6.1.6 Logistics Management Information

The contractor shall continue to develop and maintain the LMI Program per MIL-PRF-49506 which documents the output of all supportability analyses in the Logistic Management Information (LMI) Data Products IAW DI-ALSS-81529 and the LMI Summaries IAW DI-ALSS-81530. The contractor shall provide on-line access, to include ad hoc query capability, to the LMI database. The contractor shall provide all supportability data in formats compatible with national standard databases and the LMI performance specification. The contractor shall provide LMI database training to those individuals identified by the JLENS Supportability IPT. (CDRLs B054, and B055)

6.1.7 Integrated Product Team

The contractor shall participate in Government, contractor and Government/ contractor integrated product teams and sub-product teams to identify and disseminate issues to the logistics community.

6.1.8 Logistics Database

The contractor shall establish and maintain current, web-based and on-line logistics database functionality to document maintenance and/or supply actions, training tasks and action(s) taken as appropriate during government tests and demonstrations, tests utilizing Government resources, exercises and during preparation for fielding. The contractor shall provide the Government on-line access to this database.

6.1.9 Integrated Support Plan

The contractor shall develop, update, deliver and implement the Integrated Support Plan (ISP) IAW DI-MGMT-80004, to reflect the JLENS System Development and Demonstration Program and schedule. The contractor shall use the Department of the Army Pamphlet 700-56 and the JLENS Supportability Strategy as the foundation for the ISP. The ISP shall include logistics events and schedules and the following sub-plans. (CDRL B017)

6.1.9.1 Maintenance Plan

The contractor shall develop, update and submit the maintenance plan IAW DI-MGMT-80004 as a sub-plan to the ISP. The maintenance plan shall include specific information and schedules on built-intest/built-in-test equipment, failure analysis/diagnostic/prognostics, on-line-diagnostics, on-site resolution of software anomalies, levels of maintenance, personnel, parts/provisioning, tools facilities, military occupational specialties/skills, technical documentation (such as interactive electronic technical manuals, or logistics data bases) and reliability, availability and maintainability characteristics. (CDRL B017)

6.1.9.2 Supply Plan

The contractor shall update and submit the supply plan IAW DI-MGMT-80004 as a sub-plan to the ISP. The supply plan shall be developed to support JLENS Orbit during testing and in the field. (CDRL B017)

6.1.9.3 Equipment Plan

The contractor shall develop, update, and submit the equipment plan IAW DI-MGMT-80004 as a sub-plan to the ISP. In addition to the requirements of DA PAM 700-56, the equipment plan shall include specific information on costs, descriptions, quantities and delivery dates for all Commercial Off-The-Shelf (COTS) and Government Off-The-Shelf (GOTS) equipment. (CDRL B017)

6.1.9.4 Manpower Personnel Integration Management Plan

The contractor shall develop, update and submit the MANPRINT Management Plan IAW DI-MGMT-80004 as a sub-plan to the ISP. The plan shall include specific MANPRINT requirements to deploy, transport, operate and support the JLENS Orbit plus its GFP and specific information concerning the analysis and handling of MANPRINT issues and meet the requirements of Army Regulation 602-2. (CDRL B017)

6.1.9.5 Training Plan

The contractor shall use Training and Doctrine Command Regulation 350-70 to develop, update and submit a Training Plan IAW DI-MGMT-80004 as a sub-plan to the ISP. The training plan shall include, as a minimum, costs, length of classes, places of training, time of training, material / hardware / device requirements, security, personnel, facilities and prerequisites to develop training documentation for taught classes and to train testers and users for tests and fielding. The contractor shall conduct all training required for system test(s) and fielding and will employ interleaved test/FDE training. This includes, but is not limited to, instructor and key personnel (tester/instructor), Maintainer, Operator, Flight Director and Staff Planner's course(s). The contractor shall deliver the majority of training materials in electronic format employing standard software formats as listed in the contract, to minimize printing costs and storage requirements. The Government will supply computers and computer software to read the electronic training material. In the event the contractor delivers training materials utilizing non-standard software format, the contractor will provide the Government with any non-standard software required for review of the training material. (CDRL B017)



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6.1.9.6 Deployment Plan

The contractor shall develop, update and submit a deployment plan IAW DI-MGMT-80004 as a sub-plan to the ISP. The deployment plan shall include specific information concerning resources to deploy system(s) and include a load plan for planned modes of transit. (CDRL B017)

6.2 Product Assurance

The contractor shall implement a quality system that meets the requirements of the applicable International Organization for Standardization 9000 series. The contractor shall develop, document, submit and implement a product assurance plan IAW DI-MGMT-80004. The product assurance plan shall address the functional areas of software quality assurance and hardware quality assurance (including corrosion prevention and control), reliability, maintainability and parts control. (CDRL B028)

6.2.1 Corrosion Prevention and Control (CPC)

The contractor shall develop and implement a corrosion prevention and control plan IAW DI-MGMT-80004 that is in compliance with the JLENS Government Corrosion Prevention Plan. (CDRL B028)

6.2.2 Environmental Kits

The contractor shall minimize the use of environmental kits when satisfying the temperature requirements of the JLENS Orbit. The contractor shall obtain Government approval in advance of planned use for all kits. The contractor drawings shall document environmental kits and list additional authorized item(s) in the appropriate technical manuals.

6.2.3 Plastic Encapsulated Microcircuits (PEM)

The contractor shall develop and implement a PEM Plan that includes the generation of a list of PEM devices used on contractor manufactured JLENS parts and the generation of a list of PEM devices used on JLENS COTS parts for all COTS assemblies where the contractor is granted access to the COTS assemblies' parts list. The contractor shall provide status reporting at JLENS Quarterly Program Reviews.

6.2.4 Software Quality Assurance (SQA)

The contractor shall conduct an SQA Program for JLENS software development in accordance with ISO 9000. The contractor shall include the SQA Program in the JLENS Product Assurance Plan by identifying SQA tasks as well as a narrative regarding the approach of those tasks. The contractor SQA Program shall provide for traceability of system/subsystem/software requirements to and from all test processes and procedures.

6.3 Environmental Management

The contractor shall comply with all applicable federal, state and local laws, regulations and guidelines. The contractor shall develop, document, provide and implement a Hazardous Materials Management Program (HMMP) Plan IAW DI-MGMT-81398. The contractor shall implement the HMMP in accordance with the Government HMMP Plan and National Aerospace Standard (NAS 411). The contractor shall request approval to use substances identified in the Environmental Protection Agency 17 list (available at http://www.epa.gov/opptintr/3350/33finb1.htm) only if there is no other viable material. The contractor shall not use any Class I Ozone Depleting Chemical/Ozone Depleting Substance (ODC/ODS) (identified at http://www.epa.gov/ozone/ods.html) in the manufacture of items required by this SOW unless a waiver is obtained from the government. The contractor shall provide immediate notification of any proposed hazardous material mitigation/elimination efforts that may adversely impact schedules and/or cost performance. The contractor shall notify the contracting officer immediately upon failure to comply with any regulatory requirements. The contractor shall provide a HMMP Report IAW DI-MISC-81397. (CDRLs B018 and B022)

6.4 Configuration Management (CM)

The contractor shall prepare and submit a CM Plan IAW DI-MGMT-80004 that provides a single coordinated Configuration/Data Management (CDM) process and compatible CDM tools to manage the configurations produced under this contract. The contractor shall implement a CDM System that shall control the configuration of all components and interfaces of the JLENS Orbit to include prime items/components produced by subcontractors. The contractor's CDM Systems shall ensure that each deliverable specification prepared is IAW MIL-STD-961E. The contractor's CDM System shall address the following elements: Administration, configuration identification and control, configuration status accounting, configuration audits, management of digital data and subcontractor CM. The contractor shall prepare an Engineering Change Proposal (ECP) IAW DI-CMAN-80639, Engineering Release Record (ERR) IAW DI-CMAN-80463 and Notice Of Revision (NOR) IAW DI-CMAN-80642 for proposed changes to contractor furnished documents that are under Government configuration control. The CDM process shall include a configuration control board for approving ECPs. The Government shall be a member of the contractor's ECP Configuration Control Board (CCB). The contractor shall utilize the Request for Deviation (RFD) process IAW DI-CMAN-80640. (CDRLs B047, B039, B060, B040, and B059)

6.4.1 Configuration Management Audits

The contractor shall support Government/contractor functional configuration audit to verify that the design meets or exceeds all system performance requirements, including requirements contained within MIS-PRF-55628 and physical requirements.

6.4.2 Subcontractor Configuration Management Audits

The contractor shall support and conduct periodic audits of processes and procedures in-house and at subcontractor facilities to ensure that requirements are flowed accurately and in a timely manner to manufacturing operations and that the deliverable product as-built definition is accurately reported.

7 OPERATIONS SECURITY (OPSEC)

The contractor shall update, provide and implement the OPSEC Plan IAW DI-MGMT-80934. The contractor shall update the OPSEC Plan in accordance with specific instructions of the Contracting Officer/Contracting Officer Representative for Security and AR 530-1. The contractor shall adhere to the approved OPSEC Plan and the security requirements of the DD Form 254 of this contract. (CDRL B019)

APPENDIX A CONTRACT DATA REQUIREMENTS LIST (CDRL) SUMMARY

CDRL	Data Item Title	DID	Approval
B001	Records of Meeting / Minute Report	DI-ADMN-81505	A
B002	Integrated Master Schedule	DI-MGMT-81650	A
B003	Contract Funds Status Report	DI-MGMT-81468	NA
B004	Cost Performance Report	DI-MGMT-81466A	NA
B005	Life Cycle Cost And Independent Schedule Assessment Report	DI-FNCL-80448	NA
B006	Data Accession List	DI-MGMT-81453	NA
B007	Spec Tree	DI-MISC-80508A	Α
B008	System / Subsystem Design Description	DI-IPSC-81432A	NA
B009	Performance Specification Documents	DI-SDMP-81465A	Α
B010	Interface Control Drawing Documentation	DI-CMAN-81248A	Α_
B011	Software Development Plan	DI-IPSC-81427A	A
B012	Safety Assessment Report	DI-SAFT-80102B	A
B013	JLENS System Model	DI-MISC-80048	NA
B014	Presentation Material	DI-ADMN-81373	А
B015	Test Plan	DI-NDTI-80566	A
B016	Test Inspection Reports	DI-NDTI-80809B	A
B017	Integrated Support Plan	DI-MGMT-80004	A
B018	Hazardous Materials Management Program Plan	DI-MGMT-81398	A
B019	Operations Security (OPSEC) Plan	DI-MGMT-80934A	А
B020	Producibility Analysis Report	DI-MGMT-80797	A
B021	Interface Design Description	DI-IPSC-81436A	NA
B022	Hazardous Materials Management Program Report	DI-MISC-81397	Α
B023	Computer Software End Items	DI-MCCR-80700	A
B024	Software Version Description	DI-IPSC-81442A	A
B025	Contract Work Breakdown Structure	DI-MGMT-81334B	A
B026	Cost Data Summary Report DD form 1921	DI-FNCL-81565A	A
B027	Functional Cost-Hour and Progress Curve Report DD Form 1921-1	DI-FNCL-81566A	Α
B028	Management Plan (Quality Assurance Plan)	DI-MGMT-80004	A
B029	Software Requirements Specification	DI-IPSC-81433A	A

030	DI-MGMT-80004	Α
031	DI-MGMT-80004	Α
1032 Interface Requirements Specification	DI-IPSC-81434A	Α
Software Design Description	DI-IPSC-81435A	Α
S034 Software Product Specification	DI-IPSC-81441A	Α
3035 Software Test Plan	DI-IPSC-81438A	Α
036 Software Test Description	DI-IPSC-81439A	NA
3037 Software Test Report	DI-IPSC-81440A	Α
038 Software Installation Plan	DI-IPSC-81428A	Α
8039 Engineering Change Proposal	DI-CMAN-80639C	Α
Notice Of Revision	DI-CMAN-80642C	Α
3041 Transition Plan	DI-MGMT-80790	Α
3042 Acceptance Test Plan	DI-QCIC-80553	Α
0043 DISR	DI-MISC-80508A	Α
System Engineering Management Plan	DI-MGMT-81024	Α
Management Plan (System Safety Program Plan)	DI-MGMT-80004	Α
Management Plan (Simulation Support Plan)	DI-MGMT-80004	Α
Management Plan (Configuration Management Plan)	DI-MGMT-80004	A
3048 SW Resources Report - Initial	DI-MISC-80508A	NA
SW Resources Report - Final	DI-MISC-80508A	NA
3050 Level of Repair Analysis	DI-MISC-80508A	Α
1051 Logistics Trade Off Analysis	DI-MISC-80508A	Α
Management Plan (Program Management Plan)	DI-MGMT-80004	Α
Management Plan (SIL Validation Plan)	DI-MGMT-80004	Α
Logistics Management Information (LMI) Data Product(s)	DI-ALSS-81529	Α
Logistics Management Information (LMI) Summaries	DI-ALSS-81530	Α
Management Plan (Facilitization Plan)	DI-MGMT-80004	Α
8057 Engineering Drawings	DI-DRPR-80651	NA
Management Plan (Risk Management Plan)	DI-MGMT-80004	Α
Request for Deviation (RFD)	DI-CMAN-80640C	A
8060 Engineering Release Record (ERR)	DI-CMAN-80643C	Α
Failure Analysis and Corrective Action Report	DI-RELI-81315	NA
Management Plan (Manufacturing Plan)	DI-MGMT-80004	NA

APPENDIX B ACRONYMS

A Applicable (as used in Appendix A)

AR Army Regulation
ATP Acceptance Test Plan

B

BIT/BITE Built In Test/Built In Test Equipment

C

C&A Certification and Accreditation

CADM Core Architecture Data Architecture Models

CAIV Cost as an Independent Variable

CASE Computer Aided Software Engineering

CCDR Contractor Cost Data Report
CCP Change Control Process

CDM Configuration/Data Management CDRL Contract Data Requirement List

CDR Critical Design Review

CI Critical Item

CFSR Contract Funds Status Report
CM Configuration Management
CMP Configuration Management Plan
CPG Communication and Processing Group

COTS Commercial Off The Shelf
CPC Corrosion Prevention and Control

CPR Cost Performance Report

CSCI Computer Software Configuration Item

CSDR Cost and Software Data Report

CTTA Certified TEMPEST Technical Authority
CWBS Contract Work Breakdown Structure

D

DCARC Defense Cost and Resource Center

DIACAP DoD Information Assurance Certification and

Accreditation Process

DISR DoD Information Technology Standards Registry

DITSCAP DoD Information Technology Security

Certification and Accreditation Process

DoD Department of Defense

DoDAF

DoD Architecture Framework

DoDI

DoDD

Department of Defense Instruction

Department of Defense Directive

E

SEE Software Engineering Environment
SEMP Systems Engineering Management Plan
SDD System Development and Demonstration

SDP Software Development Plan SFR System Functional Review

SI System Integration

SIE Special Inspection Equipment SIL System Integration Laboratory

SMART Simulation and Modeling for Acquisition,

Requirements and Training

SOW Statement of Work

SoS PEO MS Army Integrated Air and Missile

SQA Software Quality Assurance
SQT Software Qualification Test
SRR Software Requirements Review
SRR System Requirements Review
SRDR Software Resources Data Report

SSAA System Security Authorization Agreement
SSDD System Subsystem Design Document
SSHA System Safety Hazard Analysis

SSP System Safety Program

ST Special Tooling

STD Software Test Description
STRR System Test Readiness Review

STE Special Test Equipment SuR Surveillance Radar

T

T&E Test and Evaluation

TEMPEST Transient Emission of PulsE Surveillance

Technology

TMDE Test Measurement and Diagnostic Equipment

TOA Trade-Off Analysis
TRR Test Readiness Reviews

V

VV&A Verification, Validation and Accreditation

X

XML eXtensible Markup Language

Numerics and Symbols

24/7 24 hours a day, 7 days a week

JLENS Joint Land Attack Cruise Missile Defense

Elevated Netted Sensor System

JPO JLENS Product Office

JSSSC Joint Software System Safety Committee

L

LOE Level of effort

LORA Level of Repair Analysis

LMI Logistics Management Information

LRIP Low Rate Initial Production

LUT Limited User Test

M

MAC Mission Assurance Category
MANPRINT Manpower Personnel Integration

MMS Mobile Mooring Station

MTP Master Test Plan

 \mathbf{N}

NA Not Applicable (as used in Appendix A)

NAS National Aerospace Standard

NSTISSAM National Security Telecommunications and

Information Systems Security Advisory

Memorandum

0

O&S Operations And Support OPSEC Operations Security

P

PDR Preliminary Design Review
PEM Plastic Encapsulated Microcircuits

PEO MS Program Executive Office for Missiles and Space

PMB Performance Measurement Baseline

POC Point of Contact

PPV Product/Process Verification
PRR Production Readiness Review
PSE Peculiar Support Equipment

R

RFD Request for Deviation

RVM Requirements Verification Matrix

S

SA Supportability Analysis

SCDR Software Critical Design Review

SEE Software Engineering Environment
SEMP Systems Engineering Management Plan
SDD System Development and Demonstration

SDP Software Development Plan SFR System Functional Review

SI System Integration

SIE Special Inspection Equipment
SIL System Integration Laboratory

SMART Simulation and Modeling for Acquisition,

Requirements and Training

SOW Statement of Work

SoS PEO MS Army

(b)(3)(A)(i)&Title 10 Sec 130 (a)(b)

SQA Software Quality Assurance
SQT Software Qualification Test
SRR Software Requirements Review
SRR System Requirements Review
SRDR Software Resources Data Report

SSAA System Security Authorization Agreement
SSDD System Subsystem Design Document
SSHA System Safety Hazard Analysis

SSP System Safety Program

ST Special Tooling

STD Software Test Description
STRR System Test Readiness Review

STE Special Test Equipment SuR Surveillance Radar

T

T&E Test and Evaluation

TEMPEST Transient Emission of PulsE Surveillance

Technology

TMDE Test Measurement and Diagnostic Equipment

TOA Trade-Off Analysis
TRR Test Readiness Reviews

V

VV&A Verification, Validation and Accreditation

X

XML eXtensible Markup Language

Numerics and Symbols

24/7 24 hours a day, 7 days a week

JLENS CSDR Submission Schedule Update based on Contract Restructure to Reflect Impact of POM10-15

DRAFT as of 12 Feb 09

FEB 07 Approved Plans

Contract Restructure Changes

15a SUMMISSION	156 FCRV	15 CCDR SUBMISSION	15D AS OF DATE	15e DUE DATE
		Prime Contractor-Raytheon	CONTRACTOR OF THE	CONTRACTOR CONTRACTOR
1	DD Forms 1921, 1921-1 (Part 1 & 2)	Initial Submission	2/28/2007	4/30/2007
2	DD Forms 1921, 1921-1 (Part 1 & 2)	Preliminary Design Review	2/28/2008	4/30/2008
3	DD Forms 1921, 1921-1 (Part 1 & 2)	Critical Design Review	2/28/2009	4/30/2009
4		Annual Submission	2/28/2010	4/30/2010
5	DD Forms 1921, 1921-1 (Part 1 & 2)			
	DD Forms 1921, 1921-1 (Part 1 & 2)	Annual Submission	2/28/2011	4/30/2011
6	DD Forms 1921, 1921-1 (Part 1 & 2)	Annual Submission	2/28/2012	4/30/2012
7	DD Forms 1921, 1921-1 (Part 1 & 2)	Annual Submission	New	New
8	DD Forms 1921, 1921-1 (Part 1 & 2)	Final Report associated with the Final delivery of all completed units	9/30/2012	11/30/2012
9	DD Form 2630-2	Initial Submission - Total Program	2/28/2007	4/30/2007
10	DD Form 2630-2	SuR First S/W Release - Estimate	6/15/2008	8/15/2008
11	DD Form 2630-3	SuR First S/W Release - Actuals	1/31/2010	3/30/2010
12	DD Form 2630-2	SuR Second S/W Release - Estimate	1/31/2010	3/30/2010
13	DD Form 2630-3	SuR Second S/W Release - Actuals	10/5/2010	12/5/2010
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14	DD Form 2630-3	SuR S/W Final Report	9/30/2012	11/30/2012
15	DD Form 2630-2	FCR First S/W Release - Estimate	1/3/2008	3/3/2008
18	DD Form 2630-3	FCR First S/W Release - Actuals	11/29/2009	1/29/2010
17	DD Form 2630-2	FCR Second S/W Release - Estimate	6/1/2009	8/1/2009
18	DD Form 2630-3	FCR Second S/W Release - Actuals	8/30/2010	10/30/2010
19	DD Form 2630-2	FCR Third S/W Release - Estimate	8/30/2010	10/30/2010
20	DD Form 2630-3	FCR Third S/W Release - Actuals	2/28/2011	4/29/2011
21	DD Form 2630-3	FCR S/W Final Report	9/30/2012	11/30/2012
22	DD Form 2630-2	PS First S/W Release - Estimate	8/13/2008	10/13/2008
23	DD Form 2630-3	PS First S/W Release - Actuals	9/23/2009	11/23/2009
24		PS Second S/W Release - Estimate	12/12/2009	2/12/2010
	DD Form 2630-2		12/14/2010	2/14/2011
25	DD Form 2630-3	PS Second S/W Release - Actuals		
26	DD Form 2630-3	PS S/W Final Report	9/30/2012	11/30/2012
27	DD Form 2630-3	Final Report - Total Program	9/30/2012	11/30/2012
		Subcontractor- Northrop Grumman	A STANSANDER	A PROPERTY OF
1	DD Forms 1921, 1921-1 (Part 1)	Initial Submission	2/28/2007	4/30/2007
2	DD Forms 1921, 1921-1 (Part 1)	Preliminary Design Review	2/28/2008	4/30/2008
3	DD Forms 1921, 1921-1 (Part 1)	Critical Design Review	2/28/2009	4/30/2009
4	DD Forms 1921, 1921-1 (Part 1)	Annual Submission	2/28/2010	4/30/2010
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7	DD Forms 1921, 1921-1 (Part 1)	Annual Submission	New	New
8	DD Forms 1921, 1921-1 (Part 1)	Final Report	9/30/2012	11/30/2012
9	DD Form 2630-2	MS S/W Initial Estimate	2/28/2007	4/30/2007
10	DD Form 2630-2	MS S/W First Release - Estimate	8/13/2008	10/13/2008
11	DD Form 2630-3	MS S/W First Release - Actuals	9/23/2009	11/23/2009
12	DD Form 2630-2	MS S/W Second Release - Estimate	12/12/2009	2/12/2010
13	DD Form 2630-3	MS S/W Second Release - Actuals	12/14/2010	2/14/2011
14	DD Form 2630-3	MS S/W Final Report	9/30/2012	11/30/2012
		Subcontractor- TCOM	A THE RESIDENCE OF THE PARTY OF	AND DESCRIPTION
1	DD Forms 1921, 1921-1 (Part 1 & 2)	Initial Submission	2/28/2007	4/30/2007
2	DD Forms 1921, 1921-1 (Part 1 & 2)	Preliminary Design Review	2/28/2008	4/30/2008
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5		Annual Submission	2/28/2011	4/30/2011
	DD Forms 1921, 1921-1 (Part 1 & 2)			
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7	DD Forms 1921, 1921-1 (Part 1 & 2)	Annual Submission	New	New
8	DD Forms 1921, 1921-1 (Part 1 & 2)	Final Report associated with the Final delivery of all completed units	9/30/2012	11/30/2012
9	DD Form 2630-2	Initial Submission	2/28/2007	4/30/2007
10	DD Form 2630-3	Platform S/W Release	10/14/2009	12/14/2009
11	DD Form 2630-3	Final Report	9/30/2012	11/30/2012
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150 AS OF DATE	150 DUE DATE
2/28/2007	4/30/2007
2/28/2008	4/30/2008
2/28/2009	4/30/2009
12/31/2009	2/28/2010
12/31/2010	2/28/2011
12/31/2011	2/28/2012
12/31/2012	2/28/2013
9/30/2013	11/30/2013
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6/15/2008	8/15/2008
1/31/2010	3/30/2010
1/31/2010	3/30/2010
10/5/2010	12/5/2010
9/30/2013	11/30/2013
1/3/2008	3/3/2008
11/29/2009	1/29/2010
6/1/2009	8/1/2009
8/30/2010	10/30/2010
8/30/2010	10/30/2010
2/28/2011	4/29/2011
9/30/2013	11/30/2013
8/13/2008	10/13/2008
9/23/2009	11/23/2009
12/12/2009	2/12/2010
12/14/2010	2/14/2011
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12/31/2012	2/28/2013
9/30/2013	11/30/2013
2/28/2007	4/30/2007
10/14/2009	12/14/2009
	12/14/2008
9/30/2013	11/30/2013

Indicates Report was previously submitted and approve

Indicates change from current approved CSDR Plans

DRAFT as of 12 Feb 09

NOTE Major changes are addition of 1 Annual Submission for the Prime and Subs (3 Total) and revision of submission dates for all Post CDR Annual Submissions to reflect 1 year from actual CDR of Dec D

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RAYTHEON COMPANY 360 LOWELL ST.		,	\Box					_
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(a) By completing Items 8 and 15, and returning	copies of the sarendae	nt; (b) By acknowledging receipt of this amenda	eni on	tack copy of the of				
or (c) By separate letter or telegram which includes RECEIVED AT THE PLACE DESIGNATED FOR					TO BE			
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A. THIS CHANGE ORDER IS ISSUED PUI		authority) THE CHANGES SET FORTH	INI	TEM 14 ARE N	AADE IN TH	IE		•
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B. THE ABOVE NUMBERED CONTRACT					as changes in	paying		-
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FAR 52.232-22, "Limitation of Funds" and								
D. OTHER (Specify type of modification a	nd authority)							•
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To incrementally fund SubCLIN 0017AA in the							kTitle	
Debris Study; to revise Section H, Key Pers Exhibits, and Other Attachments, to incorpo				tion J, List of D		10.6		PX
of Work (SOW) at no additional cost to the						***	(a)(b)	
0017AA in the amount of \$3,171,491.26.	•				_			
cept as provided herein, all torus and conditions of the								
A NAME AND TITLE OF SOMER (Type	or print)	16A. NAME AND TITLE OF CO	NLK	IC INCOFFIC	ER (Type o	r print)		DX
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SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION A - SOLICITATION/CONTRACT FORM

The total cost of this contract was increased by \$250,000.00 from \$1,812,802,018.00 to \$1,813,052,018.00.

The following have been added by full text:

PURPOSE

SubCLIN 0017AA is hereby modified to provide funding in the amount of \$250,000 to continue with the

The results of the trade study are due March 31, 2012. The contractor will establish a separate control account for this effort and, in accordance with FAR 52.232-20, "Limitation of Cost," notify the Contracting Officer in writing whenever they expect to incur costs in support of this effort in the next sixty (60) days that, when added to all costs previously incurred, will exceed seventy-five (75) percent of the target cost Upon receipt of this notice, the Government will make a determination regarding how to proceed.

(b)(3)(A) (i)&Title 10 Sec 130 (a)(b)

(b)(4)

The trade study shall address the following areas:

Statement of Objectives:

In FY08-FY09, the funded the USA JLENS office to conduct a study of potential JLENS

The effort assessed both technical feasibility and provided suggested operational concepts that would be consistent and complementary (minimally disruptive) with already planned JLENS operational constructs. The Army JLENS study assessed:

(b)(3)(A) (i)&Title 10 Sec 130 (a)(b)

- 1) For the
 - a. Contributions of JLENS system to assess whether involved the potential exploitation of data prior to intercept, after intercept, or both

(b)(3)(A) (i)&Title 10 Sec 130 (a)(b)

This

b. Ability of JLENS system to contribute to directing a

c. Ability of JLENS system to determine if there is any militarily-significant

(b)(3)(A) (i)&Title 10 Sec 130 (a)

(b)

(b)(3)

- 2) For the Force Protection Mission Area, the study addressed
 - where JLENS may be able to measure some form

The study addressed CONOPS

(A) (i)&Title 10 Sec 130 (a)

(b)

3) The study recommended key next steps for additional data collect and demonstrations.

In FY10-FY11 the (b) (3) (A) ILENS Surveillance System (b) (3) (A) The results of this study provided evidenced to move forward with a non-interference data collection effort during JLENS testing at the Utah Test and Training Range in the FY11-12 time frame.
FY12 Tasks:
1. The USA JLENS office will execute data collection project to demonstration (b) (3) (A) (b) (3) (A) The effort will initially focus on recording stimulant release and other Up to 3 data collection events will be planned during the 6 month period at Dugway Proving Ground or other locations as may provide sufficient data to compare to analytic work previously conducted. We are assuming that any JLENS participation would be "piggybacking" on these releases. In other words, treat these event as "targets of opportunity".
Update plans as necessary to support a live demonstration with JLENS at DPG or other sites Generation of a JLENS Test Plan to include a detailed description of the live demonstration to be performed at UTTR, JLENS system configuration, data collection parameters and test reports Participation in (b) (3) planning and review meetings Scheduling the UTTR site and required personnel for the (b) (3) temonstration based on a non-interference basis with other UTTR site activities Preparation and conduct of a pre-demonstration readiness brief Collection of applicable radar data during the (b) (3) temonstration Generation of JLENS final test report
 FY12 Deliverables: Support working group meetings with (b) (3) (A) working group technical meetings JLENS (b) (3) (A) JLENS JLENS Final Report in March 2012 Short monthly project financial and performance status reports via e-mail or telecom Security Plan if required, which describes methods to ensure appropriate protection of JLENS information
SECTION B - SUPPLIES OR SERVICES AND PRICES
 SUBCLIN 0017AA The target cost has increased by from the target profit/fee has increased by from the total cost of this line item has increased by \$250,000.00 from \$1,575,053,571.00 to \$1,575,303,571.00.
This includes an increase in target cost of consisting of a co
B-17. INCENTIVE FEE FOR SUBCLIN 0017AA/CLIN 0018 (SEE H-19):
Y I STEP COOKE STATE OF THE STA

In accordance with FAR 52.216-7, entitled "Allowable Cost and Payments", and FAR 52.216-10, entitled "Incentive Fee", the total amount for reimbursement of cost and fee for performance under SubCLIN 0017AA/CLIN 0018 are set forth below:

Target Cost (b)(4)Target Fee (b)(4)Incentive Arrangement: Maximum Fee: Minimum Fee: (Share Ratio: Government/Contractor) Underrun: or the amount by which the total allowable cost is less than the target cost until maximum fee is attained (b)(4)Overrun: for the amount by which the total allowable cost exceeds the target cost until minimum fee is attained. FAR 52.216-10, INCENTIVE, paragraph (e)(1), is stated as follows: (e) Fee Payable. (1) The fee payable under this contract shall be the target fee increased by (b)(4)the total allowable cost is less than the target cost or decreased by? for every dollar that the total allowable cost exceeds the target cost. In no event shall the fee be greater than or less than of the target cost. B-18. TARGET COST, TARGET FEE, MINIMUM INCENTIVE FEE, MAXIMUM INCENTIVE FEE, AND INCENTIVE ARRANGEMENT FOR SUBCLIN 0017AA/CLIN 0018: SUBCLIN 0017AA – (Two SDD JLENS Systems) Target cost: Target fee: (b)(4)Minimum incentive fee: Maximum incentive fee:

\$1,575,303,571

SECTION G - CONTRACT ADMINISTRATION DATA

Total target cost and target fee:

Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by \$3,421,491.26 from \$1,742,286,390.62 to \$1,745,707,881.88.

SUBCLIN 0017AA:

LY: 21 0 2040 5L 5L68 P172419E555L 255Y 4M0J730000 S01021 4M0J730000/04MJLE/4M5 was increased by \$671,491.26 from \$264,135,933.26 to \$264,807,424.52

Target Cost, Target Fee. and Total for the above increase of \$671.491.26 is distributed as follows and includes an acilities capital cost of money) and an increase in target cost (b)(4)ss facilities capital cost of money. increase in target incer

Target Cost
Target Fee
Total
\$671,491.26

MF: 21 1 2040 5L 5L68 P172419E555L 255Y 4M1J730000 S01021 4M1J730000/14MJLE/4M5 was increased by \$2,500,000.00 from \$265,662,809.00 to \$268,162,809.00

(6)(4)

Target Cost, Target Fee, and Total for the above increase of \$2,500,000 is distributed as follows and includes an increase in target cost of cost and increase in target incentive fee of the second process of target cost less facilities capital cost of money.

Target Cost
Target Fee
Total
\$2,500,000

MP: 21 1 2040 0000 36 2217 63330421500 255Y MIPR1MDATRB001 1HVR69 S01021 MIPR1MDATRB001/1HVR69/H was increased by \$250,000.00 from \$0.00 to \$250,000.00 The contract ACRN MP has been added.

Target Cost, Target Fee, and Total for the above increase of \$250,000 is distributed as follows and includes an increase in target cost of the second of target cost and facilities capital cost of money) and an increase in target incentive fee of the second of target cost less facilities capital cost of money.

Target Cost
Target Fee
Total \$250,000

(b)(4)

IMPLEMENTATION OF AND EXPLANATION OF THE RELATIONSHIP OF THE LIMITATION OF FUNDS (LOF) CLAUSE TO FEE OBLIGATIONS, subparagraph c., is revised to read as follows:

SUBCLIN 0017AA: THIS **CUMULATIVE** PRIOR **MODIFICATION** TOTAL* (1) Amount Required for Full Funding, Including Fee: \$1,575,053,571 \$ 250,000.00 \$ 1,575,303,571 Amount Allotted Under the LOF Clause for Payment of Costs: (3) Amount Separately Obligated for Payment of Fee: (b)(4)(4) Total Amount Allotted and Obligated: \$1,516,948,199.26 \$3,421,491.26 \$1,520,369,690.52 (5) Net Amount Required for Full Funding \$ 58,105,371.74 (\$3,171,491.26) \$ 54,933,880.48

- * These figures take into consideration the negotiated total value of SubCLIN 0017AA (This does not include SubCLIN 17AH)
- 5. SECTION H SPECIAL CONTRACT REQUIREMENTS is revised as follows:

Paragraph H-14, KEY PERSONNEL, is revised as follows:

KEY PERSONNEL LIST:

NAME

POSITION

Paragraph H-19, <u>INCENTIVE FEE STRUCTURE AND PAYMENT FOR CLIN 0017</u>, <u>SYSTEM DEVELOPMENT AND DEMONSTRATION (SDD)</u>, subparagraphs a. and b., are revised as follows:

a. General.

SubCLIN 0017AA, System Development and Demonstration (SDD), is a cost-plus-incentive-fee (CPIF) Line Item with cost and schedule incentives as described below. Paragraph H-19(b) applies only to the Cost Incentive and Paragraph H-19(c) applies only to the Schedule Incentive. The contract price amount of \$1,575,303,571 includes a target cost of (which includes which is cost and cost of facilities capital cost of money) and a target incentive fee of which is cost of target cost less facilities capital cost of money.	(6)(4)
b. Cost Incentive.	
(1) The target fee payable under SubCLIN 0017AA is a first of the target cost less facilities capital cost of money an amount equal to	
(2) The maximum fee payable under SubCLIN 0017AA is fitted the target cost less facilities capital cost of money amount equal to	(b)(4)
(3) The minimum fee payable under SubCLIN 0017AA f the target cost less facilities capital cost of money an amount equal to	
(4) Fee will be adjusted for actual cost that is less than or more than the target cost stated above using a share ratio of covernment costs contractor for actual costs less than the target cost, and a ratio of contractor for actual costs greater than the target cost range applied according to Paragraph H-19(c)(1).	
(5) Nothing stated in this clause shall take precedence over the clause 52.216-10 - Incentive Fee contained in this contract.	
Paragraph H-19, <u>INCENTIVE FEE STRUCTURE AND PAYMENT FOR CLIN 0017</u> , <u>SYSTEM DEVELOPMENT AND DEMONSTRATION (SDD)</u> , subparagraph c., is revised as follows (Note subparagraph c(2) regarding an additional incentive fee pool of second states and second with System Capability Reviews (SCRs) has been deleted):	(b)(4)
c. Schedule and Performance Incentive.	
will be established at the target cost value of the conduct of milestones below. The "flat zone" over which the contractor will earn target fee is for eligible costs from once the program milestones set forth below are conducted.	(b)(4)
(a) of the maximum benefit of the "flat zone", earned by the conduct of the SDD System Functional Review NLT 2nd Quarter, Fiscal Year 2007. (It is hereby acknowledged by the government that	(b)(4
Raytheon completed the requirement for this flat zone and earned the "Flat Zone" schedule incentive of Final determination of incentive fee payment utilizing the "Flat Zone" amount will be made at the	(b)(4)
conclusion of the contract.	(P)(P)
(b) of the maximum benefit of the "flat zone", earned by the conduct of SDD Orbit Critical	(b)(4)
Design review NLT 2nd Quarter, Fiscal Year 2009. (It is hereby acknowledged by the government that Raytheon completed the requirement for this flat zone and earned the "Flat Zone" schedule incentive of state of Final determination of incentive fee payment utilizing the "Flat Zone" amount will be made at the conclusion of the	(b)(4)

Exhibit A with Distribution List & Data Item



- (3) For Earned Value and cost reporting purposes, the target cost value of
- will be used.

(b)4)

d. Changes issued under FAR 52.243-2, Changes - Cost Reimbursement

In the event of a change issued under FAR 52.243-2, Changes - Cost Reimbursement, it is agreed that changes to the performance and schedule incentive may be considered a part of the equitable adjustment. In the event that any Options to CLIN 0017 are added and exercised, the incentive fee for cost and schedule/performance applicable to the Option will be incorporated in accordance with the incentive fee structure of this provision.

6. SECTION J - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

The following has been revised to reflect an update to CLIN 0017, JLENS SDD Program Statement of Work and CLIN 0017, Contract Data Requirements List (DD Form 1423) and to delete CLIN 0017, Performance Incentive Fee Critiera/Evidence, undated and consisiting of eight (8) pages:

TITLE	<u>DATE</u>	# OF PAGES	
Contract Security Classification Specification (DD Form 254), Revision 13 (Added per Modification P00235)	14 Apr 11	13	
JLENS Software Source Code Specifically Negotiated License, License Number JLENS-SWLA-01 (Added per Modification P00166)	04 Sep 08	8	
CLIN 0017: JLENS System Development and Demonstration (SDD) Program Statement of Work (Revised by Incorporating CSDR Plans dated 20 Febr 2007 in Appendix C per Modification P00136)	30 Nov 06 - Revised 20 Feb 07	37	
JLENS System Development and Demonstration (SDD) Program Statement of Work (Added per Modification P00187)	Revised 06 Apr 09	38	
JLENS System Development and Demonstration (SDD) Program Statement of Work, Revision 2 (Added per Modification P00207)	Revised 09 Mar 10	36	
JLENS System Development and Demonstration (SDD) Program Statement of Work, Revision 3 (Added per Modification P00239)	Revised 01 Sep 11	36	
JLENS System Development and Demonstration (SDD) Program Statement of Work (Added per Modification P00240)	Revised 26 Sep 11	36	(b)(3)(A)
	March 08	ŧ	(i)&Title 10 Sec 130 (a)(b)
Contract Data Requirements List (DD Form 1423)	01 Dec 06	63	

Nos. B001 through B062		
(Replace Data Item Nos. B026 and B027, only	Revised 05 Apr 07	
Per Modification P00136)		
(Replace Data Item Nos. B048 and B049, only	Revised 24 Oct 07	
Per Modification P00143 & to add statement in		
Section A of Modification P00143)		
(Replace Data Item No. B033 only, per	Revised 11 Jul 08	1
Modification P00161)		
Contract Data Requirements List (DD Form 1423)	Revised 07 May 09	2
Exhibit A, Data Item Nos. B001 and B014		1920
(Added per Modification P00187)		
(Added per Modification 1 50 tor)		
Contract Data Requirements List (DD Form 1423)	Revised 20 Mar 09	60
Exhibit A, Data Item Nos. B002 through B062 (less B014)		
(Added per Modification P00187)		
(11data par 11data par		
Contract Data Requirements List (DD Form 1423)	Revised 30 Aug 11	2
Exhibit A, Data Item Nos. B001 and B014		
(Added per Modification P00239)		
,		

*Added statement below to address weekends/Holidays: (In Mod P00143)

24 October 07

*Per a mutual agreement between Raytheon and JLENS Product Office all Contract Data Requirements List (CDRL's) (DD Form 1423) are due on the next business day after the required due date if the due date falls on Saturday, Sunday or a Government Holiday. In addition, for any CDRL with a requirement to resubmit within 10 days or less after receipt of comments, where Raytheon receives the comments on a Friday, the timeframe for resubmittal will begin on the next business day. Statement added in Mod P00143 on 24 Oct. 2007.

GFE/GFP/GFS List for SDD	28 Nov 06	2
Replaced with Rev. B List	15 Oct 07	6
**Add items below	Revised 22 Oct 07	
For record-keeping purposes		
(Per Mod P00143)		
Replaced with Revision C List	09 Mar 09	12
(Per Modification P00183)		
Replaced with Revision D List	23 Feb 10	11
(Per Modification P00207)		

**Per the DCMA and Raytheon is authorized rent free use on a non-interference use of (b)(4) the equipment listed below for utilization on JLENS Fire Control Radar Prime Contract DASG60-98-C-0001 for the period from 19 April 2007 through 30 September 2011.



(b)

(3) (A)

Hereby added in Mod P00148 for tracking purposes:		
Originated in Basic Contract:		100 Nation 100
Government Furnished Equipment - Spiral 1	20 Jun 03	1 List
(Spiral 1 Equipment Transferred to Government	25 Mar 07*	1 0
Contract DASG60-00-C-0091, DD Form 1149 (attached) (b)(6)	(Revised 21 Nov 07)	* 34 pages
Ship to address:		
(b)(4)		
*		
*NOTE: Items 1-1060 transferred to Contract DASG60-00-C-00 1061 – 1116 GFE items retained on Contract DASG60-98-C-000		
JLENS Performance Specification, MIS-PRF-55628,	27 Jun 08	136
Revision A (Added by reference per Modification P00168)		
Annex A to the JLENS Performance Specification,	27 Jun 08	10
MIS-PRF-55628, Revision A		
(Added by reference per Modification P00168)		
JLENS SDD DD250 Plan	11 Dec 09	5
(Added per Modification P00207)		
Engineering Change Proposal (ECP) MI-N3893, Revision 2, CDRL B039-005b	15 Nov 10	15
Engineering Change Proposal (ECP) MI-N3894, CDRL B039-006	18 Aug 10	16
Engineering Change Proposal (ECP) MI-N3895, CDRL B039-007	28 Sep 10	50
Engineering Change Proposal (ECP) JL1359 (Added per Modification P00240)	20 Jun 11	7
CLINs 0023 and 00024		
JLENS Simulation Support	28 January 2008	2 pages
SOW dated 28 January 2008		
Simulation Support Tasks (Added per Mod P00160)		
CLIN 0025		
JLENS Integrated Fire Control Demonstration Program	14 Sep 09	3
Statement of Work, Revision 5		
(Added per Modification P00211)		

JLENS Integrated Fire Control Demonstration Program Program and Technical Clarification Description, incorporated herein by reference (Added per Modification P00211)	30 Mar 10	26
Contract Data Requirements List (DD Form 1423) Exhibit B, Data Items Nos. B001 through B004, with Data Item Descriptions (Added per Modification P00165)	16 Oct 07	19
Contract Data Requirements List (DD Form 1423), CLIN 0028, Exhibit B, Data Item Nos. B001 through B006 (Added per Modification P00211)	16 Jun 10	6
CLIN 0027	•	
JLENS System Integration Lab (SIL) Equipment List (Added per Modification P00196)	Undated	6
Revision to System Integration Lab (SIL) Equipment List (Added per Modification P00217)	02 Aug 10	6

7. The following is an update to Modification P00239 showing a summary of funding by ACRN through Modification P00240:

<u>ACRN</u>	FUNDING	
AA		440,100.00
AB		2,298,235.00
AC		17,832,987.00
AD		0.00
AE		7,500,000.00
AF		3,300,000.00
AG		17,192,400.00
AH		700,000.00
AJ		200,000.00
AK		85,000.00
AL		45,000.00
AM		17,045,000.00
AN		5,800.00
AP		20,779,000.00
AQ		105,000.00
AR		35,000.00
AS		0.00
AT		6,984,678.52
AU		7,970,000.00
AV		0.00
AW		100,000.00

AX	3,396,000.00
AY	550,000.00
AZ	19,412,000.00
BA	24,527,878.00
BB	146,000.00
BC	72,000.00
BD	85,000.00
BE	100,000.00
BF	100,000.00
BG	1,975,321.00
ВН	38,018,908.00
BJ	7,896,673.34
BK	260,000.00
BL	0.00
BM	125,000.00
BN	103,000.00
BP	10,199,288.50
BU	350,000.00
BV	9,000.00
BW	84,896,852.00
BX	1,146,000.00
BY	3,880,000.00
BZ	190,000.00
KL	118,250.00
KM	192,793,000.00
KN	0.00
KQ	92,811.00
KR	0.00
KS	0.00
KT	386,377,998.00
KU	2,203,183.00
KV	65,000.00
KW	20,000.00
KX	60,000.00
KY	25,000.00
KZ	25,000.00
LA	13,508.00
LB	12,500.00
LC	200,000.00
LD	7,943,648.00
LE	1,173,850.00
LF	10,000.00
LG	62,000.00
LH	400,000.00
LJ	7,476.00
LK	\$281,575,897.00
LL	\$173,798.00
LM	\$1,410,376.00
LN	\$630,061.00
LP	\$83,200.00
	, ,

LQ	\$235,566.00
LR	\$125,000.00
LS	\$6,069,616.00
LT	\$530,377.00
LU	\$9,100,000.00
LV	\$1,957,265.00
LW	\$255,567.00
LX	\$68,000.00
LY	\$264,807,424.52
LZ	\$1,751,384.00
MA	\$2,982,442.00
MB	\$375,000.00
MC	\$2,283,481.00
MD	\$8,573.00
ME	\$0.00
MF	\$268,162,809.00
MG	\$6,262,095.00
MH	\$213,390.00
MJ	\$858,495.00
MK	\$56,076.00
ML	\$116,044.00
MM	\$1,618,600.00
MN	\$2,087,000.00
MP	\$250,000.00

8. The following is an update to Modification P00239 showing a summary of funding by CLIN by ACRN through Modification P00240:

CLIN	ACRN	FUNDING AMT	CLIN TOTAL
CLIN 0001	AA	440,100.00	
CLIN 0001	AD	0.00	
			440,100.00
CLIN 0003	AB	2,298,235.00	
CLIN 0003	AC	17,832,987.00	
CLIN 0003	AD	0.00	
CLIN 0003	AE	7,500,000.00	
CLIN 0003	AF	3,300,000.00	
CLIN 0003	AG	17,192,400.00	
CLIN 0003	AH	700,000.00	
CLIN 0003	AM	17,045,000.00	
CLIN 0003	AN	5,800.00	
CLIN 0003	AP	20,779,000.00	
CLIN 0003	AS	0.00	
CLIN 0003	AT	6,984,678.52	
CLIN 0003	ΑW	100,000.00	
CLIN 0003	AY	550,000.00	

			94,288,100.52
CLIN 0005	BA	24,527,878.00	
CLIN 0005	BB	146,000.00	
CLIN 0005	BC	72,000.00	
CLIN 0005	BD	85,000.00	
CLIN 0005	BE	100,000.00	
CLIN 0005	BF	100,000.00	
CLIN 0005	BG	1,975,321.00	
CLIN 0005	ВН	38,018,908.00	
CLIN 0005	BL	0.00	
CLIN 0005	BZ	0.00	
		-	65,025,107.00
CLIN 0007AA	ВР	10,199,288.50	
			10,199,288.50
		-	
CLIN 0009AA	AQ	45,106.00	
CLIN 0009AA	AV	0.00	
CLIN 0009AA	BK	256,545.00	
CLIN 0009AA	ВМ	125,000.00	
CLIN 0009AA	BN	21,315.00	
		_	447,966.00
CLIN 0009AB	AJ	200,000.00	
CLIN 0009AB	AK	85,000.00	
CLIN 0009AB	AL	45,000.00	
CLIN 0009AB	AQ	59,894.00	
CLIN 0009AB	AR	35,000.00	
CLIN 0009AB	BK.	3,455.00	
CLIN 0009AB	BN	81,685.00	
CLIN 0009AB	BU	350,000.00	
CLIN 0009AB	BV	9,000.00	
		·	869,034.00
CLIN 0013	AU	7,970,000.00	
CLIN 0013 CLIN 0013	AX	3,396,000.00	
	AY	0.00	
CLIN 0013 CLIN 0013	AY AZ	19,412,000.00	
CLIN 0013 CLIN 0013	AZ BJ	7,896,673.34	
CEITTOTS	<i>5</i> ,		38,674,673.34
			
CLIN 0017	BW	0.00	
CLIN 0017	KM	0.00	
			0.00

CLIN 0017AA	BY	3,880,000.00	
CLIN 0017AA	BX	1,146,000.00	
CLIN 0017AA	BW	84,896,852.00	
CLIN 0017AA	BZ	0.00	
CLIN 0017AA	KM	192,793,000.00	
CLIN 0017AA	KN	0.00	
CLIN 0017AA	KQ	66,151.00 0.00	
CLIN 0017AA CLIN 0017AA	KS KT	386,204,200.00	
CLIN 0017AA	KU	2,203,183.00	
CLIN 0017AA	KY	0.00	
CLIN 0017AA	LC	200,000.00	
CLIN 0017AA	LD	7,943,648.00	
CLIN 0017AA	LE	0.00	
CLIN 0017AA	LH	400,000.00	
CLIN 0017AA	LJ	7,476.00	
CLIN 0017AA	LK	281,575,897.00	
CLIN 0017AA	LQ	235,566.00	
CLIN 0017AA	LS	6,069,616.00	
CLIN 0017AA	LT	530,377.00	
CLIN 0017AA	LU	\$9,100,000.00	
CLIN 0017AA	LV	\$1,957, 265 .00	
CLIN 0017AA	LW	\$255,567.00	· · · · · · · · · · · · · · · · · · ·
CLIN 0017AA	LX	\$68,000.00	
CLIN 0017AA	LY	\$264,807,424.52	
CLIN 0017AA	MB	\$375,000.00	
CLIN 0017AA	MC	\$2,283,481.00	
CLIN 0017AA	MD	\$8,573.00	
CLIN 0017AA	ME	\$0.00	
CLIN 0017AA	MF	\$268,162,809.00	
CLIN 0017AA	MH	\$213,390.00	
CLIN 0017AA	MJ	\$858,495.00	
CLIN 0017AA	MK	\$56,076.00	
CLIN 0017AA	ML	\$116,044.00	
CLIN 0017AA	MM	\$1,618,600.00	
CLIN 0017AA	MN	\$2,087,000.00	
CLIN 0017AA	MP	\$250,000.00	
		=	1,520,369,690.52
CLIN 0017AB	KL	118,250.00	
		±	118,250.00

CLIN 0017AC	BZ	190,000.00	
			190,000.00
CLIN 0017AD	KN	0.00	
CLIN 0017AD	KS	0.00	
CDIN 00172D	NO		0.00
CI DI COLTA E		152 500 00	
CLIN 0017AE	LL	173,798.00	173,798.00
CLINIO017AH	VT	172 700 00	
CLIN 0017AH	KT	173,798.00	173,798.00
			
CLIN 0020AA	KN	0.00	
CLIN 0020AA	KQ	26,660.00	26,660.00
			20,000.00
CLIN 0021AA	KW	0.00	
		***************************************	0.00
CLIN 0021AB	KV	0.00	
CLIN 0021AB	LB	0.00	
CLIN 0021AB	KX	0.00	
CLIN 0021AB	KY	0.00	0.00
		germann, e	0.00
CLIN 0021AC	KZ	0.00	
CLIN 0021AC	LA	0.00	
			0.00
CLIN 0022	KW	0.00	
		- Andrews	0.00
CLIN 0023	КX	60,000.00	
CLIN 0023	KY	25,000.00	
CLIN 0023	KV	65,000.00	
CLIN 0023	LB	12,500.00	
CLIN 0023	LF	10,000.00	
CLIN 0023	LR	\$125,000.00	
		Example 17 Control of the Control of	297,500.00
CLIN 0024	LA	13,508.00	
CLIN 0024	LG	62,000.00	
CLIN 0024	KZ	25,000.00	
CLIN 0024	KW	20,000.00	
CLIN 0024	LP	83,200.00	
		,	

203,708.00			
	1,173,850.00	LE	CLIN 0025
	1,080,404.00	LM	CLIN 0025
	0.00	MA	CLIN 0025
2,254,254.00			
	630,061.00	LN	CLIN 0026
630,061.00			
	1,751,384.00	LZ	CLIN 0027
1,751,384.00		•	
	329,972.00	LM	CLIN 0028
	2,982,442.00	MA	CLIN 0028
	6,262,095.00	MG	CLIN 0028
9,574,509.00			

(End of Summary of Changes)

JOINT LAND ATTACK CRUISE MISSILE DEFENSE ELEVATED NETTED SENSOR SYSTEM (JLENS)



SYSTEM DEVELOPMENT AND DEMONSTRATION (SDD) PROGRAM

STATEMENT OF WORK SW-JLENS-SDD-2011

26 September 2011

Contract Line Item Number 0017AA

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The primary objective of the JLENS System Development and Demonstration (SDD) Program is

1 INTRODUCTION

1.1 Objectives

to provide an		(b)(3)(A) (i)&Title 10
The JLENS SDD Progr	ram is for the design, development,	Sec 130 (a)
procurement, fabrication, integration, testing and delivery of	of two JLENS Orbits.	(b)
1.2 System Description		
The JLENS Orbit is a dual aerostat-based surveilland	•	
surveillance system and the fire control system together ma	ike up an Orbit, although each are capable of	
operating as part of the Orbit or autonomously. The survei	llance system consists of the surveillance	
radar, Communication and Processing Group (CPG) and pl	atform. The fire control system consists of the	
fire control radar, CPG and platform. The Surveillance Rad	dar (SuR) performs long-range 360 degree	(b)(3)(A) (i)&Title
detection and tracking, while the		10 Sec 130
The CPG serves as the JLENS data and sign		(a)(b)
flight control center. The platform consists of an aerostat, l	Mobile Mooring Station (MMS), ground	
support equipment (power conversion module, cable storage	ge module and weather equipment) and tether.	
The aerostat carries the radar payloads to altitude. The MN	MS anchors, launches and recovers the aerostat.	
The powered, fiber-optic tether connects the MMS to the ac	erostat, furnishes power to the payloads and is	
used to pass data between the processing station and the ae	rostat. The communication subsystem (part of	
the CPG) is the means for movement of internal and extern	al data.	(b)(3)(A)
		(i)&Title _ 10 Sec 130
In addition	, JLENS will contribute	(a)(b)

1.3 Scope

This Statement of Work (SOW) defines the requirements for the JLENS SDD Program.

Technical requirements are contained in the JLENS System Performance Specification (MIS-PRF-55628). The contractor shall design, develop, procure, fabricate, integrate, test and deliver two JLENS Orbits that meet the requirements of this SOW and MIS-PRF-55628. Only one Orbit will be deployable at the end of the SDD Program. A second set of full spares & refurbishment of the second Orbit after climatic, E3 and transport testing is not required.

1.4 Integrated Product Teams (IPTs)

The JLENS Orbit shall be developed using a partnership between the Government and industry. The IPTs shall be the basis of that partnership. The contractor shall implement IPTs as an integral part of the JLENS SDD Program. The IPT structure developed shall follow the Contract Work Breakdown Structure (CWBS). The contractor shall be an integral member of Government IPTs and the Government will be an integral member of contractor IPTs. All contractor IPT documents shall be made available to the Government IPT members. The contractor shall develop an IPT plan to include charters for all contractor IPTs and sub-IPTs, membership of each IPT and sub-IPT, methodology for Government interaction, communication plan, schedule of meetings and make the plan available electronically to all IPT Government/contractor members. All IPT charters shall be approved by the Government as part of the Program Management Plan. The IPT or sub-IPT charters shall detail the roles, responsibilities and authority of its respective IPT or sub-IPT members, both contractor and Government.

2 INTEGRATED PROGRAM MANAGEMENT

2.1 Integrated Cost, Schedule, and Technical Performance Management

The contractor shall utilize their internal performance management system to plan, schedule, budget, monitor, manage and report cost, schedule and technical status applicable to the contract. The contractor's internal performance management system shall serve as the single, formal, integrated system that meets both the contractor's internal management requirements and the requirements of the Government for timely, reliable and auditable performance information. The contractor's system shall satisfy the industry standards delineated in ANSI/EIA-748-1998. The contractor's system shall meet the guidelines and be maintained in accordance with the requirements of the revised Department of Defense (DoD) Earned Value Management (EVM) Policy issued by the DoD Under Secretary of Defense, Acquisition, Technology and Logistics. The contractor shall flow down EVM and reporting requirements to major subcontractors and Intra-Organizational Transfers (IOT) that, based on risk, schedule criticality and dollar value, have the potential to impact the successful completion of the program. The contractor shall relate technical accomplishment with cost and schedule accomplishment in contract performance reports and at IPT meetings/integrated program reviews. The contractor shall develop a Program Management Plan In Accordance With (IAW) DI-MGMT-80004. (Contract Data Requirements List (CDRL) B052)

2.2 Meetings and Reviews - Contractor Internal

The contractor shall identify, conduct, support, attend, document reviews and make assessments by which the degree of completion of technical and programmatic efforts related to major schedule

milestones can be made. The contractor shall notify and invite the Government to all such contractor and subcontractor reviews in a timely manner.

2.3 Meetings and Reviews - Contractor/Government

The contractor shall conduct quarterly program reviews. The program reviews shall address technical performance, risk and risk management, cost, software indicators and corrective actions, technical and schedule progress, program status, staffing and issues that could affect program execution. The contractor shall relate technical accomplishment to cost and schedule using earned value and the Integrated Master Schedule during program reviews. The contractor shall conduct program management level reviews at the request of the JLENS Product Manager. The contractor shall develop presentation material IAW DI-ADMN-81373 and meeting minutes and reports IAW DI-ADMN-81505.

(CDRLs B014 and B001)

2.3.1 Integrated Baseline Review (IBR)

The contractor shall develop and maintain a comprehensive performance measurement baseline and support a Government led IBR. The contractor shall maintain baseline integrity and risk identification. The IBR will be conducted within ninety (90) days after definitization of the contract, exercise of options and major modifications as directed by the Government. The contractor shall flow-down the IBR requirement to those subcontractors that exceed the EVMS threshold (\$50M) on cost-type subcontracts. The contractor shall lead the subcontractor and IOT IBRs with active participation from the Government. (CDRL B014 and B001)

2.4 Integrated Master Plan (IMP) / Integrated Master Schedule (IMS)

The contractor shall develop and maintain an IMP / IMS IAW DI-MGMT-81650 that reflects key events/milestones, critical path, current status and completion forecasts. The contractor shall ensure that all activities are defined, resourced, controlled, scheduled, updated, monitored, reported and managed consistent with and supportive of the requirements set forth in this SOW. The contractor shall depict the overall structure of the program including the key processes, program events/milestones, significant accomplishments and activities as well as defining accomplishment criteria for each event in the IMP for the SDD Program. The IMP will serve as the basis for development of the IMS. The contractor shall develop a detailed IMS for the SDD Program consistent with the IMP, EVM, CWBS and CWBS Dictionary. The contractor shall logically link schedule tasks to reflect the manner in which the work is to be performed (including subcontractor/inter-organization transfer activities) resulting in the ability to analyze a critical path. (CDRL B002)

2.5 Contract Work Breakdown Structure

The contractor shall develop, implement and maintain a CWBS and CWBS Dictionary IAW DI-MGMT-81334 to the lowest level at which work is performed. The contractor shall use the CWBS as the primary framework for planning, monitoring, budgeting, controlling and reporting the status of program cost, schedules and technical performance. The contractor shall update the CWBS during the execution of the contract. The contractor shall submit justifications for proposed changes to CWBS. (CDRL B025)

2.6 Cost Reporting

2.6.1 Integrated Program Management Reporting

The contractor shall report EVM data. The contractor shall report to applicable CWBS elements. The contractor shall prepare a Contract Performance Report (CPR) IAW DI-MGMT-81466 and a Contract Funds Status Report (CFSR) IAW DI-MGMT-81468. The contractor shall reconcile the cost/schedule data elements in the CFSR with the CPR. The contractor shall provide a reconciliation of the CFSR and CPR as an addendum to the CPR. To maintain necessary visibility, the contractor shall report data separately on the CPR via the CWBS structure. (CDRLs B004 and B003)

2.6.2 Cost and Software Data Reporting

The contractor shall prepare Contractor Cost Data Reports (CCDRs) and Software Resources

Data Reports (SRDRs) in accordance with the JLENS Cost and Software Data Reporting Plan (CSDR)

(Appendix C). These reports include Contract Data Summary Reports (DD Form 1921) IAW DI-FNCL81565, Functional Cost Hour and Progress Report (DD Form 1921-1) IAW DI-FNCL-81566 and SRDR

(DD Forms 2630-2,3) IAW DI-MISC-80508. The contractor may customize or tailor the DD Forms
2630-2,3 to be consistent with data it normally collects. The contractor shall propose the software

measurement data within a Software Resources Data Collection Plan as part of the Software Development

Plan. The contractor is responsible for flowing down the requirements of this paragraph to all
subcontractors. (CCDR and CSDR Manuals are available from the Defense Cost and Resource Center

(DCARC) website http://dcarc.pae.osd.mil.) (CDRL B026, B027, B048, B049)

2.6.3 Program Cost Estimate

A Rough Order of Magnitude Cost for SDD program procurement, operations and sustainment of the JLENS Orbit, pertaining to the contractor portion only, shall be developed IAW DI-FNCL-80448. The estimate will contain the costs for the fire control radar, surveillance radar, processing station, communications, platform, system engineering, program management and system test and evaluation costs by fiscal year and with each component cost shown separately. The estimate shall contain the

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assumptions used in developing the estimate and shall not be requested more than twice a fiscal year. A maximum of 12 estimates may be required. (CDRL B005)

2.7 Data Management

The contractor shall establish and implement a data management process that shall reproduce, catalog, store and deliver data items. The contractor shall make available all technical and programmatic data as requested by the Government. The contractor shall maintain a data repository for classified storage and an efficient means to accomplish fast and accurate classified data retrieval until the contractor is notified by the contracting officer that the Government classified repository is available for use. The contractor shall use the Government unclassified Management Information System (MIS) Portal for delivery of unclassified data. The contractor shall notify the Government Point of Contact (POC) designated on the corresponding CDRL via email when data is posted to the classified repository and the unclassified MIS Portal. The contractor shall include the filename and path to the posted data in the email. The Government POC designated on the corresponding CDRL will provide notification of CDRL receipt to the contractor via email. The contractor shall deliver data that is usable on personal computers using Microsoft Windows Operating System and Microsoft Office Application Programs.

(b)(3)(A) (i)&Title 10 Sec 130 (a)(b)

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contractor shall ensure all electronic deliveries are free from viruses. The contractor shall support and provide input IAW DI-MGMT-81453 to the Government development of acquisition documentation. (B006)

3 SYSTEM ENGINEERING

3.1 General

The contractor shall conduct systems engineering and provide a system design that meets the requirements of this SOW and MIS-PRF-55628. The contractor shall be responsible for total system integration and performance to include supporting the Government in assessing and optimizing total system reliability. The configurations of the system and the prime items shall be documented in the Orbit, System and Subsystem Design Description, as described in the Design Notebook IAW DI-IPSC-81432. The contractor shall translate the analysis and allocation of requirements from MIS-PRF-55628 and prepare the requirements, functional, allocated and product baseline design in preparation for program milestones. This engineering effort shall be based on and shall incorporate the contractor's systems engineering process that includes requirements analysis, functional analysis/allocation and design synthesis. Systems engineering shall include Orbit, system and subsystem engineering requirements allocation, specification production and configuration management, system analyses, tactical hardware,

tactical software, tactical ground support equipment, risk management, radio frequency management, test requirements/plans, interface management and integration, safety, modeling and simulations, Cost as an Independent Variable (CAIV) and technical reviews and meetings. The contractor shall develop and submit a Systems Engineering Management Plan (SEMP) IAW DI-MGMT-81024 that clearly defines the JLENS systems engineering process. (CDRLs B008 and B044)

3.2 Systems Engineering Process

The contractor shall apply the principles of systems engineering and implement the requirements of MIS-PRF-55628 during the design work. The systems engineering process shall include all aspects of the design to include: external interfaces, supportability, logistics feasibility, environmental requirements, manpower and personnel, human factors, safety, supply support, support and test equipment, technical documentation, computer resources support, packaging, handling, storage and transportability, hazardous material handling and disposition, facilities, Reliability, Availability and Maintainability and Training (RAM-T).

3.3 System Engineering Requirements Allocation

The contractor shall develop a Specification Tree IAW DI-MISC-80508 for the JLENS Orbit to the equivalent of the Orbit, system and subsystem level. The contractor shall flow down the requirements from the MIS PRF 55628 to the equivalent of the Orbit, system and subsystem level. The Specification Tree shall be a top down diagrammatic representation of the breakdown of specification from the top specification (system performance specification) to lower level specifications (e.g. Prime Item Development Specification, Interface Control Document, Critical Item Development Specification, Software Requirements Specification, Source Control Document). The Specification Tree shall show the interdependency of specifications and form a convenient medium for the cataloging of applicable specifications. The contractor shall define and document the requirements in hardware IAW DI-SDMP-81465 and software IAW DI-IPSC-81433 specifications. The contractor shall develop Interface Control Documents for internal and external interfaces IAW DI-CMAN-81248. The contractor shall develop and maintain design documentation that will allow the contractor to replicate the JLENS hardware and software. The contractor shall document the design that meets the requirements and supporting analyses in a Design Notebook, such as the Engineering Design Notebook, and supporting documents such as a System Subsystem Design Document (SSDD), and with software design documents as identified in the Software Development Plan. The Design Notebook shall contain the key analyses and tradeoff studies conducted to support performance requirements, design and design tradeoffs. The Design Notebook shall include key parameters and assumptions used to determine hardware/software specification requirements. The Design Notebook shall contain a description of the system architecture that is being developed and

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fabricated. This description shall be provided in terms of visual descriptions, performance estimates and physical description. The Government shall have access, for use at Government facilities, to all requirements traceability database files, to include current and previous baselines. (CDRLs B007, B009, B029 and B010)

3.4 System Analyses

The contractor shall conduct performance analyses to support the system designs in accordance with the requirements of MIS-PRF-55628.

(b)(3)(A) (i)&Title 10 Sec 130 (a)(b)

The contractor

shall conduct analyses that establish the

Performance analyses and trade studies shall be completed and system design shall be updated prior to design reviews to reflect the results of the trade studies. All trade studies shall include CAIV. All analyses and trade studies generated under this section shall be included in the Design Notebook. (CDRL B008)

3.5 Producibility and Manufacturing

The contractor shall implement a producibility and manufacturing program that incorporates producibility and manufacturing into the design. This program shall include design strategies to address obsolescence, production readiness reviews, producibility planning and manufacturing technology insertion, associated with manufacturing and production. The contractor shall prepare Producibility Analysis Reports IAW DI-MGMT-80797. (CDRL B020)

3.5.1 Production Engineering and Transition Planning

The contractor shall develop and implement a manufacturing strategy IAW DI-MGMT-80790 that facilitates a smooth and orderly transition from development to low rate production. (CDRL B041)

3.5.2 Producibility

The contractor shall consider producibility in design decisions. Efforts to make the design more producible shall be directed toward achievement of cost goals and ensure manufacturing capabilities support the design. The contractor shall establish and maintain a system for measuring and reporting manufacturing costs.

3.5.3 Manufacturing Plan

The contractor shall prepare a manufacturing plan IAW DI-MGMT-80004 for the most economical set-up based on anticipated Low Rate Initial Production (LRIP) and Full Rate Production (FRP) delivery rates. Manufacturing planning and tooling is based upon a planned LRIP rate of one system per year (FY12 and FY13), a planned FRP rate of one system per year (FY14 and FY15) and a

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FRP rate of two systems per year (FY16, FY17, FY18, FY19, FY20). The contractor will identify critical JLENS hardware in the manufacturing plan. The manufacturing plan shall describe and document the manufacturing processes for critical JLENS hardware and the plan to transition this hardware to LRIP. The term "critical hardware", as used throughout section 3.5 of this SOW, is defined as hardware that fits one or more of the following criteria:

- a. utilizes manufacturing processes for which a facility or supplier does not have a proven history of continuous production at a volume similar to that planned for JLENS.
 - b. utilizes manufacturing tests which are unique to JLENS.
- c. utilizes manufacturing processes such that conformance to requirements cannot be verified by inspection or test and if deviated from could affect product performance or safety. (CDRL B062)

3.5.4 Production Qualification

The contractor shall prove-out production representative manufacturing processes, test and inspection equipment, test procedures, work instructions and tooling for the JLENS critical hardware.

3.5.5 Production Pilot Lines

Pilot production lines shall be established for critical hardware items, as early as design maturity allows during the SDD Program. Pilot lines shall be validated prior to LRIP Production Readiness Review (PRR) and shall be used to manufacture hardware used for operational test. The Production / Process Verification (PPV) shall be performed on specified critical items to verify production processes are in accordance with the design, manufacturing, inspection and test documentation.

3.5.6 Production Readiness Review (PRR)

The contractor shall conduct PRRs, with Government participation, for all prime items and their associated critical hardware as defined in paragraph 3.5.3. The PRRs are a formal assessment of the contractor's ability to produce hardware and are the basis of a Government Production Readiness Assessment. The contractor shall develop presentation material IAW DI-ADMN-81373 and meeting minutes and reports IAW DI-ADMN-81505. (CDRL B014, B001) Accepted as Modified.

3.5.7 Special Tooling (ST), Special Test Equipment (STE), Special Inspection Equipment (SIE) and Peculiar Support Equipment (PSE)

The ST, STE, SIE and PSE designs shall represent production configuration and meet production rates as individual equipment or by duplication. During the design of the STE, SIE and PSE, consideration shall be given to standardization of common components to reduce spare parts required to support production. When ST/STE is used as a medium of inspection, the calibration, verification and reverification procedures of the ST/STE shall be included in the quality program planning.

3.5.8 Facilitization Plan

The contractor shall develop and document IAW DI-MGMT-80004 the initial, and any follow-on, production facilitization requirements to support planned production rates. This includes all facilities, production equipment, test equipment and special equipment required to produce the JLENS Orbit. (CDRL B056)

3.6 Hardware Development

The contractor shall design, develop, fabricate, assemble, integrate, test, evaluate, document, deliver and support all JLENS hardware. The contractor has the responsibility for ensuring that hardware designs and deliverables meet the requirements of the MIS-PRF-55628 and this SOW. The contractor shall complete and document the conceptual and developmental design drawings/models IAW MIL-DTL-31000 of all JLENS hardware IAW DI-DRPR-80651. The contractor shall ensure compatibility of all functional and physical interfaces. The contractor shall conduct trade studies and analyses as required to accomplish a design that is cost effective and reliable. The contractor is encouraged to use commercial products, processes and practices that will reduce development, production and operational support costs. The contractor shall develop an Acceptance Test Plan (ATP) for hardware critical items IAW DI-QCIC-80553. The contractor shall provide and maintain sufficient hardware to meet the requirements of this contract. The contractor shall be responsible for total support of the hardware, including all maintenance and provision of spare/repair parts. Beginning with each Prime Item CDR, the contractor shall develop and implement a closed-loop Failure Reporting, Analysis and Corrective Action System (FRACAS) for hardware failures IAW DI-RELI-81315. This system shall be used to resolve detected hardware problems. The contractor shall document each detected hardware problem and corresponding corrective action. This system shall include/incorporate company or commercial best practices and shall be of sufficient detail to meet the program requirements and ensure program success. (CDRLs B057, B042, and **B061**)

3.7 Software

3.7.1 Software Reuse

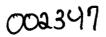
The contractor shall report reuse metrics including but not limited to size, breakage factor by SI, identification of changes required and proposed validation of change in regular Government/contractor IPT meetings and Technical Interchange Meetings and as identified in the Software Development Plan (SDP).

3.7.2 Software Engineering Environment (SEE)

The contractor shall establish, control and maintain configuration of a SEE. The SEE shall provide the facilities, hardware, software, firmware, procedures and documentation needed to perform software development and software testing at each development facility. Elements may include, but are not limited to, Computer Aided Software Engineering (CASE) tools, software development library, software development files, compilers, assemblers, linkers, loaders, operating systems, debuggers, simulators, emulators, documentation tools, database management systems, code analyzers, test case generators and path analyzers. Government shall have access, on a non-interfering and read-only basis, to all the elements of the SEE to support System Software Engineering, QA, CM and Independent Verification &Validation (IV&V) efforts.

3.7.3 Software Development

The contractor shall develop, document, submit and implement a SDP which includes a description of the SEE IAW DI-IPSC-81427. The contractor shall develop, document and deliver an Interface Requirement Specification IAW DI-IPSC-81434. The contractor shall document the requirements traceability for each software item in a Software Requirements Specification IAW DI-IPSC-81433. The contractor shall design, develop, integrate and deliver software that meets the requirements of the Software Requirements Specifications and Interface Requirements Specifications. The contractor shall deliver software including, but not limited to, all executable software, source files, build and make files and software support information developed under the JLENS Contract IAW DI-MCCR-80700. These deliveries shall include formal and interim software builds. Except as provided in the Limited/Restricted Rights Assertion Section of the contract, software source code developed under this contract will be in accordance with the Software Source Code License, Number JLENS-WSLA-01 (DFARS Clause 252.227-7014(b)(4)). Submission of any proprietary source code will be for JLENS Product Office analysis and IV&V purposes only, on an as required basis, in accordance with a mutually agreed upon no fee license. If the JLENS Product Office analysis and IV&V is performed by a non-Government entity, then a Non-Disclosure Agreement with that entity, specifically protecting the proprietary source code software will be put in place prior to submission of any source code material. The software binaries and source code shall be delivered with checksums to verify data integrity. The contractor shall develop and document the interface design in an Interface Design Description (IDD) for each Computer Software Configuration Item (CSCI) IAW DI-IPSC-81436. The contractor shall document the design decisions, algorithm descriptions and the architectural designs in a Software Design Description (SDD) Document for each CSCI IAW DI-IPS-81435. (CDRLs B011, B032, B029, B023, B021 and B033)



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3.7.4 Software Testing

The contractor shall develop, document and implement a software test plan IAW DI-IPSC-81438 for software testing. The contractor shall conduct unit testing for all new and modified software units. The contractor shall conduct unit or Software Item (SI) level testing for all safety critical and safety related software. The contractor shall conduct unit integration testing for all software units. The contractor shall document the specific unit and unit integration test cases and related test procedures. The contractor shall verify all of the requirements in the Software Requirements Specifications (B029), each in accordance with the specified qualification method. The contractor shall invite the Government to witness all software qualification testing. The contractor shall document and deliver a Software Test Description (STD) IAW DI-IPSC-81439 for each release of a CSCI. The STD describes the test preparations, test cases, test procedures and method to be used to perform Software Qualification Testing (SQT) of each release of a CSCI or a software system or subsystem. The contractor shall conduct software qualification testing IAW the STD for each software release. All SQT, or other software test events shall be performed using tactical representative hardware and test tools, where available. The contractor shall provide evidence to the Government to substantiate test tools as a valid engineering representation of system behaviors. The contractor Software Quality Assurance (SQA) personnel shall witness or audit all SQT events. The contractor shall document and deliver a Software Test Report IAW DI-IPSC-81440 for each release of a CSCI. The Software Test Report is a record of the testing performed on a CSCI, a software system or subsystem or other software-related item. (CDRLs B035, B036 and B037).

3.7.5 Software Version

The contractor shall develop and maintain software documentation and code that will allow the contractor to replicate and modify the JLENS Software at each phase of the release process, utilizing a version control and tracking system in a Software Version Description (SVD) document for each release of a CSCI. The SVD shall be prepared IAW DI-IPSC-81442. The contractor shall document the exact version of each software release. The contractor shall include in the documentation the descriptions of the capabilities and limitations of each software version, the patches and fixes from previous versions and the completed and outstanding software problem reports. The contractor shall provide maintenance support for all software throughout the continuance of the contract. (CDRL B024)

3.7.6 Software Installation

The contractor shall develop, maintain and deliver a Software Installation Plan IAW DI-IPSC-81428 to include procedures for software installation, software update procedures, software operations,

database initializations, prime item interfaces and other system specific information necessary to ensure the JLENS Orbit is operational. (CDRL B038)

3.7.7 Software Reviews

The contractor shall perform Software Requirements Review (SRR), Software Critical Design Review (SCDR) and Software Test Readiness Review (STRR) for the following software builds: FCR Builds 2 and 3, SuR Builds 2 and 3, CPG Builds 3 and 4 and platform final software build.

3.7.7.1 Software Requirements Review

The contractor shall host one or more SRRs IAW the program schedule to review the development activity and its output in the context of the overall system and platform requirements. The SRR shall provide a formal transition from the project requirements analysis and planning phase into development. The contractor shall assure the Government that all the affected requirements have been identified and the proposed development project has been sufficiently planned and documented to the Government's satisfaction. All software CSCIs shall be identified and WBS elements and metrics reporting for each software CSCI level shall be addressed. The first SRR for a prime item shall be conducted prior to or in conjunction with the prime item PDR. The contractor shall develop presentation material IAW DI-ADMN-81373 and meeting minutes and reports IAW DI-ADMN-81505. (CDRL B014 and B001)

3.7.7.2 Software Critical Design Reviews

The contractor shall host one or more software CDRs (SCDR) IAW the Program Software Release Schedule, to review the detailed design and operational and support documents to demonstrate to the Government's satisfaction that the detailed design satisfies the system, subsystem and unit level software requirements; the simulations and models accurately reflect the system, subsystem and unit level software performance parameters; the external ICDs and internal IDDs accurately reflect the system interfaces as dictated by the system and sub-system specifications; and the software interfaces and software engineering documentation accurately reflect and are in compliance with the ICDs hardware/software interface requirements. The contractor shall develop presentation material IAW DI-ADMN-81373 and meeting minutes and reports IAW DI-ADMN-81505. (CDRL B014 and B001)

3.7.7.3 Software Test Readiness Reviews

The contractor shall host one or more software TRRs (STRRs) IAW the program software release schedule in support of system and subsystem software qualification tests. The reviews shall address test objectives, schedules, safety, configuration, data requirements and suitability of the test hardware and/or software to support the test objectives IAW the STP. All test procedure steps shall be reviewed to ensure

each software requirement has been demonstrated. The contractor shall provide adequate assurance that the SQT shall be performed using tactical representative hardware where available. Results of STRR must be reviewed and approved by the Government prior to proceeding to SQT. The contractor shall develop presentation material IAW DI-ADMN-81373 and meeting minutes and reports IAW DI-ADMN-81505. (CDR B014 and B001)

3.7.8 Software Failure Reporting and Corrective Action

The contractor shall develop and implement a closed-loop FRACAS for all failures occurring during system debugging, checkout, engineering tests and contractor maintenance. This system shall be used to resolve detected software problems once each prime item CDR has been conducted. The contractor shall document each detected software problem and corresponding corrective action once each prime item CDR has been conducted. This system shall incorporate company or commercial best practices and shall be of sufficient detail to meet the program requirements and ensure program success. (CDRL B061)

3.7.9 Management Indicators

The contractor shall collect, interpret, use and report software management indicators as described in the SDP. The contractor shall address software management indicators and corrective actions at the program reviews. The contractor shall develop presentation material IAW DI-ADMN-81373. (CDRL B014)

3.7.10 Firmware

The contractor shall identify all developed and / or modified firmware, its location within the JLENS system, its associated functionality and a safety analysis including rationale and traceability to any related hazard(s). Rationale shall be provided to exclude the software associated with these devices from the software category. The contractor shall develop software for programmable hardware identified as software IAW the SDP and shall identify these items IAW DI-IPSC-81435. Otherwise, the contractor shall develop the software for programmable devices identified as hardware IAW internal best practices. These best practices shall be presented to the Government for review. (CDRL B033)

3.8 Interface Management and Integration

The design shall be modular to the maximum extent possible and shall facilitate substitution of alternate payloads from a separate source. This requirement shall be satisfied by submission of the JLENS System Interface Control Document (ICD). The ICD outline will be such that the 'as designed' interface between the payload and platform can be separately delivered upon request. (CDRL B010)

3.9 Support to Software IV&V and Other Efforts

The contractor shall support the establishment of the Government Software Integration Lab (SIL), modeling and simulation efforts, as well as the government managed Orbit-level software assessments and SIV&V testing. This support will include support to the weekly status teleconferences, accepting and dispositioning trouble reports and providing assistance in software configuration and installation within the Government SIL. This software support will not exceed 1.5 full time equivalents through the end of the SDD contract..

3.10 Safety

The contractor shall conduct system safety engineering and use the Government provided Hazard Tracking System (HTS) database in support of all design, development and test activities. The HTS database, including all data and records, shall be the property of the Government. The contractor shall conduct a System Safety Program (SSP) consistent with MIL-STD-882D, standard practice for system safety and as guidance the JLENS System Safety and Health Management Plan (SSHMP). Hazards shall be defined as outlined in MIL-STD-882D. The contractor shall prepare Safety Assessment Reports (SAR) IAW DI-SAFT-80102. The contractor shall prepare the System Safety Program Plan IAW DI-MGMT-80004. The contractor shall ensure that subcontractor's safety plans are in conformance with the contractor's safety plan. The safety design features of all electronic equipment shall be implemented using MIL-HDBK-454A as guidance. The aerostat shall meet appropriate safety requirements for airborne platforms as specified by the Federal Aviation Administration (FAA). The JLENS Orbit hardware and software, to include data displays, shall be designed to optimize the functionality and efficiency of operations for sustained periods of high activity in accordance with MIL-STD-1472F, as applicable. The contractor shall conduct a Human Factors Engineering (HFE) Program using MIL-HDBK-46855 as guidance. All hazards, to include single point failures, single point human errors and any combination of failures and human errors shall be eliminated through design, or mitigated to a Government acceptable risk level as defined in MIS-PRF-55628 paragraph 3.15.1 and MIL-STD-882D. Throughout the life cycle of the JLENS Orbit, the hardware and software shall mitigate all hazards that could cause personal injury, equipment damage or have an environmental impact. The Software Safety Program shall be implemented using MIL-STD-882. The Joint Software System Safety Committee (JSSSC) Software System Safety Handbook shall be used as guidance. (CDRL B012 and B045)

3.11 Modeling and Simulation

The contractor shall develop models and simulations under the guiding tenets of Simulation and Modeling for Acquisition, Requirements and Training (SMART). The SMART is defined in Department of the Army Pamphlet 5-12, the "Planning Guidelines for SMART" and the "SMART Execution Plan."

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These documents are maintained by the Army Model and Simulation Office

(http://www.amso.army.mil/smart/documents/guidelines/). The ultimate goal of SMART is to provide systems with greater utility at lower cost, minimizing risk and reducing operations and sustainment budgets. The contractor shall prepare a Simulation Support Plan IAW DI-MGMT-80004. (CDRL B046)

3.11.1 Engineering Modeling and Simulations

The contractor shall provide access to simulation tools that will be used by the contractor for requirements verification. The contractor shall provide simulation source code, executables and available documentation used for contractor verification and validation of the simulation IAW DI-IPSC-81441. The contractor shall make simulation results available for Government review IAW DI-MISC-80048. (CDRL B034 and B013)

3.11.2 System Integration Laboratory (SIL)

The contractor shall develop and maintain a SIL consisting of simulations, models, hardware and software. The SIL shall support the integration of hardware and software. The contractor shall develop and submit a SIL Validation Plan IAW DI-MGMT-80004 that describes how the contractor validates all SIL capabilities used in the verification of prime item hardware and software performance. (CDRL B053)

3.12 Technical Reviews and Meetings

3.12.1 Design Reviews

The contractor shall conduct SDD Program contract milestone reviews to include, but not limited to, the System Requirements Review (SRR), System Functional Review (SFR), Preliminary Design Reviews (PDRs) and Critical Design Reviews (CDRs) at the contractor's facilities. sAt each milestone review, the contractor shall address Orbit and system level design integration and shall summarize each prime item's role within the system. Contractor conducted Subsystem Readiness Reviews (i.e., Prime Item PDRs and CDRs) shall include Government participation. The contractor shall develop presentation material IAW DI-ADMN-81373 and meeting minutes and reports IAW DI-ADMN-81505. (CDRLs B014 and B001)

3.12.2 Design Review Entrance Criteria

To facilitate an event driven approach to design reviews, the contractor in collaboration with the Government shall define the process and timeline for developing entrance criteria for all planned reviews in the SEMP.

3.12.3 Design Review Exit Criteria

To facilitate an event driven approach to design reviews, the contractor, in collaboration with the government, shall define the process and timeline for developing exit criteria for all planned reviews in the SEMP.

3.13 INFORMATION & TECHNOLOGY ASSURANCE

3.13.1 General

The JLENS Orbit will maintain an appropriate level of confidentiality, integrity, authentication, non-repudiation and availability that reflect a balance among the importance and sensitivity of the information; documented threats and vulnerabilities; the trustworthiness of users and interconnecting of other systems; and the impartment to connectivity and/or the impact of destruction or loss of the system.



(b)(3)(A) (i)&Title 10 Sec 130 (a)(b)

(b)(3)(A) (i)&Title 10 Sec 130 (a)(b)

3.13.3 Information Assurance (IA)

The contractor shall support the Government managed IA Program IAW AR 25-1, Chapter 5 and AR 25-2. The contractor shall implement DoDI 8500.2 ensuring confidentiality, integrity and availability throughout the JLENS SDD Program. The contractor shall implement the JLENS IA Strategy dated 25 April 2005. The contractor shall appoint a primary and alternate POC. Each POC shall become familiar with applicable documents such as: DoD, Army Directives Pamphlets and regulations on IA and participate in JLENS sponsored IPTs. The contractor shall send IA appointment letters showing the POC names to the JLENS Product Office annually and certify that the individuals have conducted self study on applicable directives on IA (or within thirty (30) days of a POC change). The contractor shall ensure that all IA enabled products incorporated into JLENS SDD Program to perform security functions comply with the evaluation and validation requirements of the National Security Telecommunications and Information Systems Security Policy 11, in accordance with DoDD 8500.1. The contractor shall comply with paragraph 4.17 of DoDD 8500.1. IA enabled products that have IA functionality that is not used shall have that functionality disabled.

3.13.4 DoD Information Assurance Certification and Accreditation Process (DIACAP)

The contractor shall comply with DIACAP in accordance with OSDCIO Memo July 6, 2006 Subject: Interim Department of Defense Information Assurance Certification and Accreditation Process Guidance. The contractor shall assist the Government in all applicable phases of the Certification and Accreditation (C&A) process. The contractor shall be an active participant in the JLENS IA Working Group to provide technical assistance during the C&A process.

3.13.5 DoD Core Architecture Data Models (CADM)

The DoD Architecture Framework (DoDAF) defines a common approach for DoD architectures. The DoD CADM is the underlying set of products within DoDAF. The CADM incorporates the term integrated architectures and is comprised of a number of specific models, definitions and views as specified in the DoDAF documentation and are categorized into operational views, system views and technical views. The contractor shall support the Government managed development of the DoDAF documentation to further define and implement the system views and technical views models so that all data entities shall be fully attributed and ensure the use of DoD standard data elements. The contractor shall support the Government in further definition and specific analysis of information requirements essential to support development of essential architecture products contained in the JLENS Information Support Plan.

3.13.6 Transient EMission of PulsE Surveillance Technology (TEMPEST)

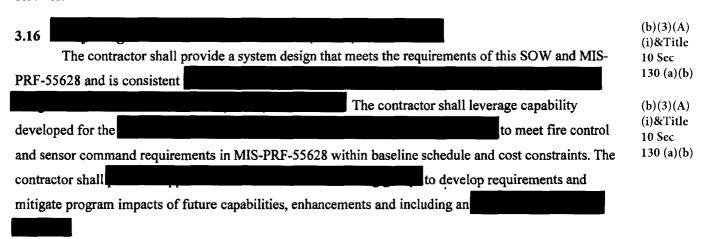
The JLENS System is a transportable system in a tactical environment. The contractor shall follow Government regulation NSTISSAM TEMPEST / 2-95, 2-95a, DoDD S-5200.19 and Memorandum Number 20063301, US Army TEMPEST Office CTTA, as guidance. Deviation from these regulations will require coordination through the Government to the cognizant CTTA. The US Army TEMPEST Office will fully address any additional technical guidance or interpretation of the JLENS TEMPEST design as requested by the contractor and approved through the JPO.

3.14 DoD Information Technology Standards Registry (DISR)

The contractor shall maintain the JLENS technical architecture profile in accordance with DISR. The contractor shall develop and deliver IAW DI-MISC-80508 an implementation strategy that details how and to what extent the JLENS development will comply with the provisions of the applicable portion(s) of the DISR. The contractor will provide inputs to the Government for the Government to include into the Government managed DISR database. Government approval is required prior to any deviations from the DISR requirements (DISR replaced the Joint Technical Architecture). (CDRL B043)

3.15 DoD Net-Centric Data Strategy

The contractor shall support the implementation of the DoD Global Information Grid (GIG). The GIG is the globally interconnected, end-to-end set of information capabilities associated processes and personnel for collecting, processing, storing and disseminating information for the warfighter. The contractor shall use, develop or refine metadata in accordance with the Defense Information Systems Agency established DoD Metadata Registry and based on the International Organization of Standards 11179 Specification for metadata registries. The contractor shall maintain a JLENS Metadata Registry, which for DoD currently incorporates existing resources such as the DoD Extensible Markup Language (XML) Registry, the Defense Data Dictionary System and commonly used reference sets. The contractor shall integrate other resources such as messaging formats, symbology, ontologies and transformation services.



4 RISK MANAGEMENT

The contractor shall develop and implement a Risk Management Plan IAW DI-MGMT-80004 and processes that identifies and prioritizes risk area, and conduct mitigation effort in coordination with the Government to reduce and/or eliminate program risks. The Risk Management Plan should address, but not be limited to, requirements, technology, design and engineering, manufacturing, support, cost and schedule. (CDRL B058).

5 TEST AND EVALUATION

5.1 General

The contractor shall develop and conduct a contractor Test and Evaluation (T&E) Program, develop and participate in a combined Government/contractor developmental flight T&E Program and

support Government only T&E programs. The contractor's T&E program shall demonstrate that the requirements contained in MIS-PRF-55628 have been verified. The contractor shall maintain traceability from MIS-PRF-55628 to the contractor generated orbit, system and subsystem requirements when defining or developing required tests. The contractor shall verify the hardware and software requirements included in the ILENS system and subsystem specifications. The contractor shall submit a final report IAW DI-NDTI-80809 for any requirement that has been verified by analysis. The contractor shall allow Government monitoring and/or participation in contractor and subcontractor tests and demonstrations. The contractor shall provide the Government electronic notification a minimum of ninety six (96) hours prior to initiation of conduct of contractor or subcontractor, subsystem and system, tests that have Government approved test plans. The contractor shall perform component and subsystem level testing to include prime item tests, integration tests and system tests and/or demonstrations. The contractor shall conduct Test Readiness Reviews (TRRs) prior to system ground tests, elevated tests and system flight tests. The contractor shall submit agendas IAW DI-ADMN-81373 and minutes IAW DI-ADMN-81505 for the TRRs. The contractor shall be capable of reducing and analyzing data recorded during Orbit and system testing within 48 hours or 24 hours if target telemetry data is made available by the Government within 8 hours of test completion, to expedite test schedule decision planning. The contractor will preplan and coordinate periods of use of the Government operated test ranges with the JLENS Product Office. The Government will accommodate 24/7 operations as needed to support requirements testing in accordance with range availability and limitations. (CDRLs B015, B016, B014, and B001)

5.2 Test Plans, Reports and Reviews

The contractor shall prepare and submit test plans IAW DI-NDTI-80566 and test reports IAW DI-NDTI-80809 for Orbit, system, subsystems and components. The Master Test Plan shall address the entire test program including performance and integration testing and demonstrations at the contractor/subcontractor facilities and at Government field test sites. The contractor shall prepare and submit a test report for each test event for which a test plan is prepared. (CDRLs B015 and B016)

5.3 Stimulator Integration

The contractor shall support the integration of the JLENS Stimulator with the JLENS Orbit. The contractor shall provide support in the Government performance evaluation of the JLENS Fire Control and Surveillance Systems using the JLENS Stimulator to conduct Simulation only and Simulation Over Live testing. The contractor shall support integration testing of the JLENS stimulator at the Surveillance and Fire Control SILs. Contractor support for these activities will not exceed 2.4 full time equivalents. The contractor shall provide an Interface Control Document IAW DI-CMAN-81248 to

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define the integration of the stimulator into the JLENS Surveillance and Fire Control Systems. (CDRL B010)

5.4 System Tests/Demonstrations

If requested under the changes clause of this contract, the contractor shall support the planned Government events such as to demonstrate incremental and full system capability.

(b)(3)(A) (i)&Title 10 Sec 130 (a)(b)

5.5 Government Test Support

The contractor shall support the Government in the conduct of JLENS Government tests IAW MTP. The contractor shall be responsible for providing and maintaining test articles (hardware and software) at the Government designated test sites. Contractor support in the case of Government E3 and Environmental Testing shall include review of test plans and test procedures, personnel, test fixtures, test equipment, the ability to determine functionality of the test item/s during and/or after each test event and a repair plan schedule consistent with the test schedule. The contractor shall support Government conducted TRRs. Government testing includes engineering tests and tests involving the use of soldiers. The contractor shall assist the Government with planning, collection, reduction, analysis and reporting of test data. These tests may be conducted concurrently with contractor tests.

5.6 Models and Simulations Verification, Validation and Accreditation (VV&A) Support The contractor shall support Government managed VV&A.

5.7 Interoperability Test Program

The contractor shall provide level of effort support to the Government conducted Interoperability Testing Program 1 full time equivalent (FTE) person for the period through end of SDD contract.

6 SPECIALTY ENGINEERING

6.1 Logistics

6.1.1 Logistics Program

The contractor shall continue to develop, update and maintain the JLENS Logistics Program in accordance with Army Regulation 700-127. The contractor's logistics program shall use these iterative processes that provide for early and continued logistics influence on design to enhance supportability: Identify and verify requirements and associated documentation for support of testing, minimize future operations maintenance costs; identify and resolve logistics issues early in the program to include

Manpower Personnel Integration (MANPRINT) and training issues, document pre and post-fielding support requirements; support fielding and deployment; and implement performance-based support.

6.1.2 Logistics Engineering

As an integral part of the systems engineering process, the contractor shall conduct logistics engineering to satisfy the requirements of MIS-PRF-55628 and to minimize the total Operation and Support (O&S) costs of the JLENS SDD Program plus all of its associated Government Furnished Property (GFP) requirements. Logistics engineering shall include all the elements of Integrated Logistics Support (ILS). Within the JLENS support structure, the contractor shall emphasize maintainability, availability and transportability engineering. The contractor shall develop a two-level support system (field and sustainment) for JLENS peculiar items. For GFP, the contractor shall consider the implications of the compatibility of existing logistics support structures (i.e. 3-level support systems) in the over-all context of engineering the JLENS support system.

6.1.3 Supportability Analysis

The contractor shall establish and conduct a Supportability Analysis (SA) Program in accordance with MIL-HDBK-502 that integrates and optimizes ILS/MANPRINT requirements within system performance requirements (including GFP) for the life-cycle of the system. The SA Program shall be used to generate source data for the development of ILS/MANPRINT requirements, evaluation of the effect of design alternatives on support costs and operational readiness, assessment of logistics risks, translation of hardware design due to logistics support requirements, determination of logistics design constraints/impacts, determination of the most efficient and effective logistics resources for operation and support the JLENS Orbit and development of the data for logistics products (training, spares, support equipment, technical manuals, etc.).

6.1.4 Level of Repair Analysis

The contractor shall conduct a Level of Repair Analysis (LORA) in accordance with MIL-HDBK-502 to define optimal maintenance planning and engineering in accordance with MIL-HDBK-470A. The contractor shall record the results of LORA in the Logistics Management Information (LMI) IAW DI-MISC-80508. (CDRL B050)

6.1.5 Trade-Off Analysis

The contractor shall perform Trade-Off Analysis (TOA) of alternatives to reduce the total logistics footprint of the JLENS Orbit (plus GFP) and the size/scope of the total GFP required to:operate, support, transport and deploy the system. The contractor will deliver the TOA IAW DI-MISC-80508. (CDRL B051)

6.1.6 Logistics Management Information

The contractor shall continue to develop and maintain the LMI Program per MIL-PRF-49506 which documents the output of all supportability analyses in the Logistic Management Information (LMI) Data Products IAW DI-ALSS-81529 and the LMI Summaries IAW DI-ALSS-81530. The contractor shall provide on-line access, to include ad hoc query capability, to the LMI database. The contractor shall provide all supportability data in formats compatible with national standard databases and the LMI performance specification. The contractor shall provide LMI database training to those individuals identified by the JLENS Supportability IPT. (CDRLs B054, and B055)

6.1.7 Integrated Product Team

The contractor shall participate in Government, contractor and Government/ contractor integrated product teams and sub-product teams to identify and disseminate issues to the logistics community.

6.1.8 Logistics Database

The contractor shall establish and maintain current, web-based and on-line logistics database functionality to document maintenance and/or supply actions, training tasks and action(s) taken as appropriate during government tests and demonstrations, tests utilizing Government resources, exercises and during preparation for fielding. The contractor shall provide the Government on-line access to this database.

6.1.9 Integrated Support Plan

The contractor shall develop, update, deliver and implement the Integrated Support Plan (ISP) IAW DI-MGMT-80004, to reflect the JLENS System Development and Demonstration Program and schedule. The contractor shall use the Department of the Army Pamphlet 700-56 and the JLENS Supportability Strategy as the foundation for the ISP. The ISP shall include logistics events and schedules and the following sub-plans. (CDRL B017)

6.1.9.1 Maintenance Plan

The contractor shall develop, update and submit the maintenance plan IAW DI-MGMT-80004 as a sub-plan to the ISP. The maintenance plan shall include specific information and schedules on built-intest/built-in-test equipment, failure analysis/diagnostic/prognostics, on-line-diagnostics, on-site resolution of software anomalies, levels of maintenance, personnel, parts/provisioning, tools facilities, military occupational specialties/skills, technical documentation (such as interactive electronic technical manuals, or logistics data bases) and reliability, availability and maintainability characteristics. (CDRL B017)

6.1.9.2 Supply Plan

The contractor shall update and submit the supply plan IAW DI-MGMT-80004 as a sub-plan to the ISP. The supply plan shall be developed to support JLENS Orbit during testing and in the field. (CDRL B017)

6.1.9.3 Equipment Plan

The contractor shall develop, update, and submit the equipment plan IAW DI-MGMT-80004 as a sub-plan to the ISP. In addition to the requirements of DA PAM 700-56, the equipment plan shall include specific information on costs, descriptions, quantities and delivery dates for all Commercial Off-The-Shelf (COTS) and Government Off-The-Shelf (GOTS) equipment. (CDRL B017)

6.1.9.4 Manpower Personnel Integration Management Plan

The contractor shall develop, update and submit the MANPRINT Management Plan IAW DI-MGMT-80004 as a sub-plan to the ISP. The plan shall include specific MANPRINT requirements to deploy, transport, operate and support the JLENS Orbit plus its GFP and specific information concerning the analysis and handling of MANPRINT issues and meet the requirements of Army Regulation 602-2. (CDRL B017)

6.1.9.5 Training Plan

The contractor shall use Training and Doctrine Command Regulation 350-70 to develop, update and submit a Training Plan IAW DI-MGMT-80004 as a sub-plan to the ISP. The training plan shall include, as a minimum, costs, length of classes, places of training, time of training, material / hardware / device requirements, security, personnel, facilities and prerequisites to develop training documentation for taught classes and to train testers and users for tests and fielding. The contractor shall conduct all training required for system test(s) and fielding and will employ interleaved test/FDE training. This includes, but is not limited to, instructor and key personnel (tester/instructor), Maintainer, Operator, Flight Director and Staff Planner's course(s). The contractor shall deliver the majority of training materials in electronic format employing standard software formats as listed in the contract, to minimize printing costs and storage requirements. The Government will supply computers and computer software to read the electronic training material. In the event the contractor delivers training materials utilizing non-standard software format, the contractor will provide the Government with any non-standard software required for review of the training material. (CDRL B017)

6.1.9.6 Deployment Plan

The contractor shall develop, update and submit a deployment plan IAW DI-MGMT-80004 as a sub-plan to the ISP. The deployment plan shall include specific information concerning resources to deploy system(s) and include a load plan for planned modes of transit. (CDRL B017)

6.2 Product Assurance

The contractor shall implement a quality system that meets the requirements of the applicable International Organization for Standardization 9000 series. The contractor shall develop, document, submit and implement a product assurance plan IAW DI-MGMT-80004. The product assurance plan shall address the functional areas of software quality assurance and hardware quality assurance (including corrosion prevention and control), reliability, maintainability and parts control. (CDRL B028)

6.2.1 Corrosion Prevention and Control (CPC)

The contractor shall develop and implement a corrosion prevention and control plan IAW DI-MGMT-80004 that is in compliance with the JLENS Government Corrosion Prevention Plan. (CDRL B028)

6.2.2 Environmental Kits

The contractor shall minimize the use of environmental kits when satisfying the temperature requirements of the JLENS Orbit. The contractor shall obtain Government approval in advance of planned use for all kits. The contractor drawings shall document environmental kits and list additional authorized item(s) in the appropriate technical manuals.

6.2.3 Plastic Encapsulated Microcircuits (PEM)

The contractor shall develop and implement a PEM Plan that includes the generation of a list of PEM devices used on contractor manufactured JLENS parts and the generation of a list of PEM devices used on JLENS COTS parts for all COTS assemblies where the contractor is granted access to the COTS assemblies' parts list. The contractor shall provide status reporting at JLENS Quarterly Program Reviews.

6.2.4 Software Quality Assurance (SQA)

The contractor shall conduct an SQA Program for JLENS software development in accordance with ISO 9000. The contractor shall include the SQA Program in the JLENS Product Assurance Plan by identifying SQA tasks as well as a narrative regarding the approach of those tasks. The contractor SQA Program shall provide for traceability of system/subsystem/software requirements to and from all test processes and procedures.



6.3 Environmental Management

The contractor shall comply with all applicable federal, state and local laws, regulations and guidelines. The contractor shall develop, document, provide and implement a Hazardous Materials Management Program (HMMP) Plan IAW DI-MGMT-81398. The contractor shall implement the HMMP in accordance with the Government HMMP Plan and National Aerospace Standard (NAS 411). The contractor shall request approval to use substances identified in the Environmental Protection Agency 17 list (available at http://www.epa.gov/opptintr/3350/33finb1.htm) only if there is no other viable material. The contractor shall not use any Class I Ozone Depleting Chemical/Ozone Depleting Substance (ODC/ODS) (identified at http://www.epa.gov/ozone/ods.html) in the manufacture of items required by this SOW unless a waiver is obtained from the government. The contractor shall provide immediate notification of any proposed hazardous material mitigation/elimination efforts that may adversely impact schedules and/or cost performance. The contractor shall notify the contracting officer immediately upon failure to comply with any regulatory requirements. The contractor shall provide a HMMP Report IAW DI-MISC-81397. (CDRLs B018 and B022)

6.4 Configuration Management (CM)

The contractor shall prepare and submit a CM Plan IAW DI-MGMT-80004 that provides a single coordinated Configuration/Data Management (CDM) process and compatible CDM tools to manage the configurations produced under this contract. The contractor shall implement a CDM System that shall control the configuration of all components and interfaces of the JLENS Orbit to include prime items/components produced by subcontractors. The contractor's CDM Systems shall ensure that each deliverable specification prepared is IAW MIL-STD-961E. The contractor's CDM System shall address the following elements: Administration, configuration identification and control, configuration status accounting, configuration audits, management of digital data and subcontractor CM. The contractor shall prepare an Engineering Change Proposal (ECP) IAW DI-CMAN-80639, Engineering Release Record (ERR) IAW DI-CMAN-80463 and Notice Of Revision (NOR) IAW DI-CMAN-80642 for proposed changes to contractor furnished documents that are under Government configuration control. The CDM process shall include a configuration control board for approving ECPs. The Government shall be a member of the contractor's ECP Configuration Control Board (CCB). The contractor shall utilize the Request for Deviation (RFD) process IAW DI-CMAN-80640. (CDRLs B047, B039, B060, B040, and B059)

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6.4.1 Configuration Management Audits

The contractor shall support Government/contractor functional configuration audit to verify that the design meets or exceeds all system performance requirements, including requirements contained within MIS-PRF-55628 and physical requirements.

6.4.2 Subcontractor Configuration Management Audits

The contractor shall support and conduct periodic audits of processes and procedures in-house and at subcontractor facilities to ensure that requirements are flowed accurately and in a timely manner to manufacturing operations and that the deliverable product as-built definition is accurately reported.

7 OPERATIONS SECURITY (OPSEC)

The contractor shall update, provide and implement the OPSEC Plan IAW DI-MGMT-80934.

The contractor shall update the OPSEC Plan in accordance with specific instructions of the Contracting Officer/Contracting Officer Representative for Security and AR 530-1. The contractor shall adhere to the approved OPSEC Plan and the security requirements of the DD Form 254 of this contract. (CDRL B019)

APPENDIX A CONTRACT DATA REQUIREMENTS LIST (CDRL) SUMMARY

CDRL	Data Item Title	DID	Approval Required
B001	Records of Meeting / Minute Report	DI-ADMN-81505	A
B002	Integrated Master Schedule	DI-MGMT-81650	A
B003	Contract Funds Status Report	DI-MGMT-81468	NA
B004	Cost Performance Report	DI-MGMT-81466A	NA
B005	Life Cycle Cost And Independent Schedule	DI-FNCL-80448	NA
ļ	Assessment Report		
B006	Data Accession List	DI-MGMT-81453	NA
B007	Spec Tree	DI-MISC-80508A	A
B008	System / Subsystem Design Description	DI-IPSC-81432A	NA
B009	Performance Specification Documents	DI-SDMP-81465A	A
B010	Interface Control Drawing Documentation	DI-CMAN-81248A	A
B011	Software Development Plan	DI-IPSC-81427A	A
B012	Safety Assessment Report	DI-SAFT-80102B	А
B013	JLENS System Model	DI-MISC-80048	NA
B014	Presentation Material	DI-ADMN-81373	A
B015	Test Plan	DI-NDTI-80566	A
B016	Test Inspection Reports	DI-NDTI-80809B	Α
B017	Integrated Support Plan	DI-MGMT-80004	A
B018	Hazardous Materials Management Program Plan	DI-MGMT-81398	А
B019	Operations Security (OPSEC) Plan	DI-MGMT-80934A	A
B020	Producibility Analysis Report	DI-MGMT-80797	А
B021	Interface Design Description	DI-IPSC-81436A	NA
B022	Hazardous Materials Management Program Report	DI-MISC-81397	Α
B023	Computer Software End Items	DI-MCCR-80700	Α
B024	Software Version Description	DI-IPSC-81442A	А
B025	Contract Work Breakdown Structure	DI-MGMT-81334B	А
B026	Cost Data Summary Report DD form 1921	DI-FNCL-81565A	A
B027	Functional Cost-Hour and Progress Curve Report DD Form 1921-1	DI-FNCL-81566A	А
B028	Management Plan (Quality Assurance Plan)	DI-MGMT-80004	A
B029	Software Requirements Specification	DI-IPSC-81433A	A

(b)(3)(A) (i)&Title 10 Sec 130 (a)(b)

B030		DI-MGMT-80004	Α
B031		DI-MGMT-80004	A
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B032	Interface Requirements Specification	DI-IPSC-81434A	Α
B033	Software Design Description	DI-IPSC-81435A	Α
B034	Software Product Specification	DI-IPSC-81441A	Α
B035	Software Test Plan	DI-IPSC-81438A	Α
B036	Software Test Description	DI-IPSC-81439A	NA
B037	Software Test Report	DI-IPSC-81440A	Α
B038	Software Installation Plan	DI-IPSC-81428A	Α
B039	Engineering Change Proposal	DI-CMAN-80639C	Α
B040	Notice Of Revision	DI-CMAN-80642C	Α
B041	Transition Plan	DI-MGMT-80790	Α
B042	Acceptance Test Plan	DI-QCIC-80553	Α
B043	DISR	DI-MISC-80508A	Α
B044	System Engineering Management Plan	DI-MGMT-81024	Α
B045	Management Plan (System Safety Program Plan)	DI-MGMT-80004	Α
B046	Management Plan (Simulation Support Plan)	DI-MGMT-80004	Α
B047	Management Plan (Configuration Management Plan)	DI-MGMT-80004	Α
B048	SW Resources Report - Initial	DI-MISC-80508A	NA
B049	SW Resources Report - Final	DI-MISC-80508A	NA
B050	Level of Repair Analysis	DI-MISC-80508A	Α
B051	Logistics Trade Off Analysis	DI-MISC-80508A	A
B052	Management Plan (Program Management Plan)	DI-MGMT-80004	Α
B053	Management Plan (SIL Validation Plan)	DI-MGMT-80004	Α
B054	Logistics Management Information (LMI) Data	DI-ALSS-81529	Α
	Product(s)		
B055	Logistics Management Information (LMI) Summaries	DI-ALSS-81530	Α
B056	Management Plan (Facilitization Plan)	DI-MGMT-80004	Α
B057	Engineering Drawings	DI-DRPR-80651	NA
B058	Management Plan (Risk Management Plan)	DI-MGMT-80004	Α
B059	Request for Deviation (RFD)	DI-CMAN-80640C	Α
B060	Engineering Release Record (ERR)	DI-CMAN-80643C	Α
B061	Failure Analysis and Corrective Action Report	DI-RELI-81315	NA
B062	Management Plan (Manufacturing Plan)	DI-MGMT-80004	NA

APPENDIX B ACRONYMS

A

A Applicable (as used in Appendix A)

AR Army Regulation
ATP Acceptance Test Plan

В

BIT/BITE Built In Test/Built In Test Equipment

C

C&A Certification and Accreditation

CADM Core Architecture Data Architecture Models

CAIV Cost as an Independent Variable
CASE Computer Aided Software Engineering

CCDR Contractor Cost Data Report
CCP Change Control Process

CDM Configuration/Data Management CDRL Contract Data Requirement List

CDR Critical Design Review

CI Critical Item

CFSR Contract Funds Status Report
CM Configuration Management
CMP Configuration Management Plan
CPG Communication and Processing Group

COTS Commercial Off The Shelf

CPC Corrosion Prevention and Control

CPR Cost Performance Report

CSCI Computer Software Configuration Item

CSDR Cost and Software Data Report

CTTA Certified TEMPEST Technical Authority
CWBS Contract Work Breakdown Structure

n

DCARC Defense Cost and Resource Center

DIACAP DoD Information Assurance Certification and

Accreditation Process

DISR DoD Information Technology Standards Registry

DITSCAP DoD Information Technology Security

Certification and Accreditation Process

DoD Department of Defense

DoDAF

DoDI

DoDD

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E3 Electromagnetic Environment Effects (EMI,

EMC, EMV)

ECP Engineering Change Proposal
EMC Electromagnetic Compatibility
EMI Electromagnetic Interference
EMV Electromagnetic Vulnerability
EVM Earned Value Management

F

FCR Fire Control Radar

FDE Force Development Experiment FDT Force Development Test

FRACAS Failure Reporting and Corrective Action System

FRP Full Rate Production FTE Full Time Equivalent

G

GFP Government Furnished Property

GIG Global Information Grid GOTS Government Off The Shelf

H

HFE Human Factors Engineering
HHAR Health Hazard Assessment Report

HMMP Hazardous Material Management Program

HTS Hazard Tracking System

I IA

Information Assurance

(b)(3)(A)(i)&Title 10 Sec 130 (a)(b)

IAW In Accordance With
IBR Integrated Baseline Review
ICD Interface Control Document

ICEP Interoperability Certification Evaluation Plan

Identification Design Description IDD Integrated Data Environment IDE Integrated Logistics Support ILS **IMP** Integrated Master Plan **IMS** Integrated Master Schedule IOT **Initial Operation Test IPT** Integrated Product Team **ISP** Integrated Support Plan Information Technology IT

IV&V Independent Verification and Validation

J

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JLENS Joint Land Attack Cruise Missile Defense

Elevated Netted Sensor System

JPO JLENS Product Office

JSSSC Joint Software System Safety Committee

L

LOE Level of effort

LORA Level of Repair Analysis

LMI Logistics Management Information

LRIP Low Rate Initial Production

LUT Limited User Test

M

MAC Mission Assurance Category
MANPRINT Manpower Personnel Integration

MMS Mobile Mooring Station

MTP Master Test Plan

N

NA Not Applicable (as used in Appendix A)

NAS National Aerospace Standard

NSTISSAM National Security Telecommunications and

Information Systems Security Advisory

Memorandum

0

O&S Operations And Support OPSEC Operations Security

P

PDR Preliminary Design Review
PEM Plastic Encapsulated Microcircuits

PEO MS Program Executive Office for Missiles and Space

PMB Performance Measurement Baseline

POC Point of Contact

PPV Product/Process Verification
PRR Production Readiness Review
PSE Peculiar Support Equipment

R

RFD Request for Deviation

RVM Requirements Verification Matrix

S

SA Supportability Analysis

SCDR Software Critical Design Review

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SEE Software Engineering Environment
SEMP Systems Engineering Management Plan
SDD System Development and Demonstration

SDP Software Development Plan SFR System Functional Review

SI System Integration

SIE Special Inspection Equipment SIL System Integration Laboratory

SMART Simulation and Modeling for Acquisition,

Requirements and Training

SOW Statement of Work

SoS PEO MS Army Integrated Air and Missile

Defense System of System
Software Quality Assurance
Software Qualification Test
Software Requirements Review

SRR System Requirements Review SRDR Software Resources Data Report

SSAA System Security Authorization Agreement
SSDD System Subsystem Design Document
SSHA System Safety Hazard Analysis

SSP System Safety Program

ST Special Tooling

STD Software Test Description STRR System Test Readiness Review

STE Special Test Equipment SuR Surveillance Radar

T

SOA

SQT

SRR

T&E Test and Evaluation

TEMPEST Transient Emission of PulsE Surveillance

Technology

TMDE Test Measurement and Diagnostic Equipment

TOA Trade-Off Analysis
TRR Test Readiness Reviews

V

VV&A Verification, Validation and Accreditation

X

XML eXtensible Markup Language

Numerics and Symbols

24/7 24 hours a day, 7 days a week

002369

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JLENS CSDR Submission Schedule Update based on Contract Restructure to Reflect Impact of POM10-15

DRAFT as of 12 Feb 09

FEB 07 Approved Plans

Contract Restructure Changes

16a SUBMISSION	158 FORM	15 CCDR SUBMISSION	15D AS OF DATE	15e DUE DATE
The state of the s		. Prime Contractor- Raytheon		Control of the last
1	DD Forms 1921, 1921-1 (Part 1 & 2)	Initial Submission	2/28/2007	4/30/2007
2	DD Forms 1921, 1921-1 (Part 1 & 2)	Preliminary Design Review	2/28/2008	4/30/2008
3	DD Forms 1921, 1921-1 (Part 1 & 2)	Critical Design Review	2/28/2009	4/30/2009
4	DD Forms 1921, 1921-1 (Part 1 & 2)	Annual Submission	2/28/2010	4/30/2010
5	DD Forms 1921, 1921-1 (Part 1 & 2)	Annual Submission	2/28/2011	4/30/2011
6	DD Forms 1921, 1921-1 (Part 1 & 2)	Annual Submission	2/28/2012	4/30/2012
7	DD Forms 1921, 1921-1 (Part 1 & 2)	Annual Submission	New	New
8	DD Forms 1921, 1921-1 (Part 1 & 2)	Final Report associated with the Final delivery of all completed units	9/30/2012	11/30/2012
9	DD Form 2630-2	Initial Submission - Total Program	2/28/2007	4/30/2007
10	DD Form 2630-2	SuR First S/W Release - Estimate	6/15/2008	8/15/2008
11	DD Form 2630-3	SuR First S/W Release - Actuals	1/31/2010	3/30/2010
12	DD Form 2630-2	SuR Second S/W Release - Estimate	1/31/2010	3/30/2010
13	DD Form 2630-3	SuR Second S/W Release - Actuals	10/5/2010	12/5/2010
14	DD Form 2630-3	SuR S/W Final Report	9/30/2012	11/30/2012
15	DD Form 2630-2	FCR First S/W Release - Estimate	1/3/2008	
16	DD Form 2630-2	FCR First S/W Release - Actuals	11/29/2009	3/3/2008
17	DD Form 2630-3			1/29/2010
18		FCR Second S/W Release - Estimate	6/1/2009	8/1/2009
	DD Form 2630-3	FCR Second S/W Release - Actuals	8/30/2010	10/30/2010
19	DD Form 2630-2	FCR Third S/W Release - Estimate	8/30/2010	10/30/2010
20	DD Form 2630-3	FCR Third S/W Release - Actuals	2/28/2011	4/29/2011
21	DD Form 2630-3	FCR S/W Final Report	9/30/2012	11/30/2012
22	DD Form 2630-2	PS First SW Release - Estimate	8/13/2008	10/13/2008
23	DD Form 2630-3	PS First S/W Release - Actuals	9/23/2009	11/23/2009
24	DD Form 2630-2	PS Second S/W Release - Estimate	12/12/2009	2/12/2010
25	DD Form 2630-3	PS Second S/W Release - Actuals	12/14/2010	2/14/2011
26	DD Form 2630-3	PS S/W Final Report	9/30/2012	11/30/2012
27	DD Form 2630-3	Final Report - Total Program	9/30/2012	11/30/2012
2.	A STATE OF THE PROPERTY OF THE PARTY OF THE	Subcontractor- Northrop Grumman		Contract of the same
1	DD Forms 1921, 1921-1 (Part 1)	Initial Submission	2/28/2007	4/30/2007
2	DD Forms 1921, 1921-1 (Part 1)	Preliminary Design Review	2/28/2008	4/30/2008
3	DD Forms 1921, 1921-1 (Part 1)	Critical Design Review	2/28/2009	4/30/2009
4	DD Forms 1921, 1921-1 (Part 1)	Annual Submission	2/28/2010	4/30/2010
5	DD Forms 1921, 1921-1 (Part 1)	Annual Submission	2/28/2011	4/30/2011
6	DD Forms 1921, 1921-1 (Part 1)	Annual Submission	2/28/2012	4/30/2012
7	DD Forms 1921, 1921-1 (Part 1)	Annual Submission	New	New
8	DD Forms 1921, 1921-1 (Part 1)	Final Report	9/30/2012	11/30/2012
9	DD Form 2630-2	MS S/W Initial Estimate	2/28/2007	4/30/2007
10	DD Form 2630-2	MS S/W First Release - Estimate	8/13/2008	10/13/2008
11	DD Form 2630-3	MS S/W First Release - Actuals	9/23/2009	11/23/2009
12	DD Form 2630-2	MS S/W Second Release - Estimate	12/12/2009	2/12/2010
13	DD Form 2630-3	MS S/W Second Release - Actuals	12/14/2010	2/14/2011
14	DD Form 2630-3	MS S/W Final Report	9/30/2012	11/30/2012
-	CONTRACTOR OF THE PARTY OF THE	Subcontractor- TCOM	A CONTRACTOR OF THE PARTY OF THE	A PARTY NAMED IN
1	DD Forms 1921, 1921-1 (Part 1 & 2)	Initial Submission	2/28/2007	4/30/2007
2	DD Forms 1921, 1921-1 (Part 1 & 2)	Preliminary Design Review	2/28/2008	4/30/2008
3	DD Forms 1921, 1921-1 (Part 1 & 2)	Critical Design Review	2/28/2009	4/30/2009
4	DD Forms 1921, 1921-1 (Part 1 & 2)	Annual Submission	2/28/2010	4/30/2010
5	DD Forms 1921, 1921-1 (Part 1 & 2)	Annual Submission	2/28/2011	4/30/2011
6	DD Forms 1921, 1921-1 (Part 1 & 2)	Annual Submission	2/28/2012	4/30/2012
7	DD Forms 1921, 1921-1 (Part 1 & 2)	Annual Submission	New	New
8	DD Forms 1921, 1921-1 (Part 1 & 2)	Final Report associated with the Final delivery of all completed units	9/30/2012	11/30/2012
9	DD Form 2630-2	Initial Submission	2/28/2007	4/30/2007
10	DD Form 2630-2 DD Form 2630-3	Platform SW Release	10/14/2009	12/14/2009
			9/30/2012	11/30/2012
11	DD Form 2630-3	Final Report	WOULDIZ	11/30/2012

ISO AS OF DATE	15e DUE DATE
2/28/2007	4/30/2007
2/28/2008	4/30/2008
2/28/2009	4/30/2009
12/31/2009	2/28/2010
12/31/2010	
	2/28/2011
12/31/2011	2/28/2012
12/31/2012	2/28/2013
9/30/2013	11/30/2013
2/28/2007	4/30/2007
6/15/2008	8/15/2008
1/31/2010	3/30/2010
1/31/2010	3/30/2010
10/5/2010	12/5/2010
9/30/2013	11/30/2013
1/3/2008	3/3/2008
11/29/2009	1/29/2010
6/1/2009	8/1/2009
8/30/2010	10/30/2010
8/30/2010	10/30/2010
2/28/2011	
	4/29/2011
9/30/2013	11/30/2013
8/13/2008	10/13/2008
9/23/2009	11/23/2009
12/12/2009	2/12/2010
12/14/2010	2/14/2011
9/30/2013	11/30/2013
9/30/2013	11/30/2013
2/28/2007	4/30/2007
2/28/2008	4/30/2008
2/28/2009	4/30/2009
12/31/2009	2/28/2010
12/31/2010	2/28/2011
12/31/2011	2/28/2012
12/31/2012	2/28/2013
9/30/2013	11/30/2013
2/28/2007	4/30/2007
8/13/2008	10/13/2008
9/23/2009	11/23/2009
12/12/2009	2/12/2010
12/14/2010	2/14/2011
9/30/2013	11/30/2013
2/28/2007	4/30/2007
2/28/2008	4/30/2008
2/28/2009	4/30/2009
12/31/2009	2/28/2010
12/31/2010	2/28/2011
12/31/2011	2/28/2012
12/31/2012	2/28/2013
9/30/2013	11/30/2013
2/28/2007	4/30/2007
10/14/2009	12/14/2009
9/30/2013	11/30/2013

Indicates Report was previously submitted and approve

Indicates chango from current approved CSDR Plans

DRAFT as of 12 Feb 09

NOTE Manor changes are addition of 1 Annual Submission for the Princ and Subs (3 Total) and revision of submission dates for all Post COR Annual Submissions to reflect 1 year from actual COR of Doc 08

Sensor System (JLENS) Product Office. Contract Support: Raytheon Company (Prime Contractor for JLENS Development Program) References: 1) (b)(3)(A)(i)&Title 10 Sec 130 (a)(b) 2) Statement of Objectives: In FY08-FY09, the conduct a study of potential JLENS The effort assessed both technical feasibility and provided suggested operational concepts that would be consistent and complementary (minimally disruptive) with already planned JLENS operational constructs. The Army JLENS study (b)(3)(A)assessed: (i)&Title 10 Sec 130 (a)(b) 1) For the Contributions of JLENS system to assess whether This involved the potential exploitation of data b. Ability of JLENS system to contribute to (b)(3)(A)(i)&Title c. Ability of JLENS system to determine if there is any 10 Sec 130 (a)(b) 2) For the Force Protection Mission Area, the study addressed a. The ability of JL FNS to contribute to The study addressed CONOPS where JLENS may be able to (b)(3)(A)(i)&Title 10 Sec 130 (a)(b)

Performer: United States Army (USA) Joint Land Attack Cruise Missile Defense Elevated Netted

3) The study recommended key next steps for additional data collect and demonstrations.

In FY10-FY11, the conduct a study th		funded the Army JLENS office to	(b)(3)(A)
data collection effo	uits of this study provided evider ort during JLENS testing at the	nced to move forward with a non-interference	(i)&Title 10 Sec 130 (a)(b)
FY12 Taaks:			
month period at compare to analyte	t release and other applicable fic Up to 3 data col or other Ic work previously conducted. W	The effort will initially focus on its collection project to demonstration the The effort will initially focus on its data, and then its lied data, an	(b)(3)(A) (i)&Title 10 Sec 130 (a)(b)
Test/Demonstration Update plusites		ve demonstration with JLENS at or other	
G G G G G G G G G G G G G G G G G G G	emonstration to be performed at ollection parameters and test rep articipation in	ports and review meetings quired personnel for the is with other -demonstration readiness brief ta during the	(b)(3)(A) (i)&Title 10 Sec 130 (a)(b)
group ted JLENS JLENS JLENS JLENS Fi Short mo	rorking group meetings with nnical meetings nal Report in March 2012 nthly project financial and perform the performancial and perform the performancial and perform the performancial and perform the performancial and pe	and Support working rmance status reports via e-mail or telecom s methods to ensure appropriate protection of	(b)(3)(A) (i)&Title 10 Sec 13 (a)(b)
Estimated Period (MIPR): September 2011		tary Interdepartmental Purchase Request	
Basis of Estimat	e (BOE):		
	Office and Contract Support	\$250K	

Points of Contact: Address MIPR to: Program Executive Office(PEO), Missile and Space Cruise Missile Defense Systems (CMDS) **Project Office** (SFAE-MSLS-CMDS-BMD-FM) ATTN: Bidg 5308 Redstone, Arsenal, AL 35898-5082 (b)(b) CMDS Fin POC: EMAIL: **CMDS Tech POC EMAIL** A&AS Suport: JLENS SETA Engineering Support Wide, CAS Group

E-MAIL

	ITATION/MODII	FICATION OF CONTRACT	•	I.CONTRACT		1,1020	F PAGES
AMENDMENT/MODIFICATION NO.	J. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.			S.PROJECT	VO.(lfappi)	
200341	200CT11						
SSUED BY CODE SASMDC/ARSTRAT IMDC-RDC O BOX 1800 RUNT SVILLE AL 85807-3801	W9113M	7. ADMINISTERED BY (If other than Item6) DCMARAYTHON BOAPLE HILL DRIVE MIG TEPR2 TEWKSBURY MA 01876		coi	DE 82205	A	
NAME AND ADDRESS OF CONTRACTO	OR (No., Street, County,	State and Zip Code)		9A. AMENDMI	NT OF SOL	ICITATI	ON NO.
BOLOWELL ST. WIDDVER MA 01810-4400		3		9B. DATED (S	E ITEM II)	
			X	IOA. MOD. OF DASGEO-98-C-	CONTRACT	ORDER	NO.
DE 05716	FACILITY CO	DE	X	10B, DATED (30-Jan-1998	SEE ITEM I	3)	
		APPLIES TO AMENDMENTS OF SOLI	CIT	ATIONS		······································	
The above numbered solicitation is arrended as set	forth in item (4. The hour and	date specified for receipt of Offer		is extended.	is not extend	ied.	
Offer must acknowledge receipt of this aneadment (a) By completing items 8 and 15, and returning or (c) By separate letter or telegram which include RECEIVED ATTHE PLACE DESIGNATED FO REJECTION OF YOUR OFFER. If by winter of the provided each telegram or letter makes reference to	copies of the amendme is a reference to the solicitation R THE RECEIPT OF OFFERS is arrendment you desire to cha	nt: (b) By acknowledging receipt of this amendme and amendment numbers. FAILURE OF YOUR A PRIOR TO THE HOUR AND DATE SPECIFIED age an offer already submitted, such change may b	MA MA MA	each copy of the off NOWLEDGMENT' Y RESULT IN de by telegramor let	DB DB		
ACCOUNTING AND APPROPRIATION	DATA (If required)						
		TO MODIFICATIONS OF CONTRACTS					
A. THIS CHANGE ORDER IS ISSUED PU CONTRACT ORDER NO. IN ITEM 10	RSUANT TO: (Specify a	CT/ORDER NO. AS DESCRIBED IN ITE uthority) THE CHANGES SET FORTH			IADE IN TH	E	
B. THE ABOVE NUMBERED CONTRAC office, appropriation date, etc.) SET PO					s changes in	paying	
THIS SUPPLEMENTAL AGREEMENT AR52,232-22, Limitation of Funds" and I	I IS ENTERED INTO PU						
OTHER (Specify type of modification a							
MPORTANT: Contractor is not,	x is required to sig	n this document and return 1	cop	ies to the issuing	office.	······	
DESCRIPTION OF AMENDMENT/MOD where feasible.) Modification Control Number:	DIFICATION (Organized	by UCF section headings, including solici	itatio	on/contract subje	ct matter		
increase and fund SubCLN 0017AA in to i) non-tactical, heat-producing Environment i storage or transportation.			•				
							i
		A or 10A, as bereiofore changed, remains unchan	ged a	and in full force and o	flect.	····	
	e document referenced in Items or print)	A or 10A, as beresofore changed, remains unchan	ged a	nd in full force and o	flect.		
pt as provided herein, all terms and conditions of the	or print)	I I I I I I I I I I I I I I I I I I I	ged a	nd in full force and o	400	DATE 9	CNED
		II.	ged a	nd in full force and o	16C.	DATE SI	Y.

EXCEPTION TO SF 30 APPROVED BY OIRM | 1-84

30-105-04

002374

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

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

1	SECTION A	- SOLICIT	ATION/CONTR	ACT FORM
	. SECTION A	- 30241614	~	\mathbf{AC} \mathbf{I} \mathbf{IC} \mathbf{IC} \mathbf{IN} \mathbf{M}

The total cost of this contract was increased by \$691,421.00 from \$1,813,052,018.00 to \$1,813,743,439.00.

2. SECTION B - SUPPLIES OR SERVICES AND PRICES

SUBCLIN 0017AA

The target cost has increased by **\$1,446,860,337.00**. froin The target profit/fee has increased by o \$129,134,655.00.

(b)(4)

The total cost of this line item has increased by \$691,421.00 from \$1,575,303,571.00 to \$1,575,994,992.00.

This includes an increase in target cost of consisting of a ncrease in cost and a increase in (b)(4)facilities capital cost of money, and an increase in target fee of of target cost less facilities which is (b)(4) capital cost of money.

B-17. INCENTIVE FEE FOR SUBCLIN 0017AA/CLIN 0018 (SEE H-19):

In accordance with FAR 52.216-7, entitled "Allowable Cost and Payments", and FAR 52.216-10, entitled "Incentive Fee", the total amount for reimbursement of cost and fee for performance under SubCLIN 0017AA/CLIN 0018 are set forth below:

Target Cost

Target Fee

(b)(4)

Incentive Arrangement: Maximum Fee:

Minimum Fee:

(Share Ratio: Government/Contractor)

Underrun: or the amount by which the total allowable cost is less than the target cost until maximum fee is attained.

(4)(4)

Overrun or the amount by which the total allowable cost exceeds the target cost until minimum fee is attained.

FAR 52.216-10, INCENTIVE, paragraph (e)(1), is stated as follows:

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

(6)(4)

B-18. TARGET COST, TARGET FEE, MINIMUM INCENTIVE FEE, MAXIMUM INCENTIVE FEE, AND INCENTIVE ARRANGEMENT FOR SUBCLIN 0017AA/CLIN 0018:

SUBCLIN 0017AA - (Two SDD JLENS Systems)

a. Target cost:

b. Target fee:

c. Minimum incentive fee:

d. Maximum incentive fee:

e. Total target cost and target fee:

\$1,575,994,992

(b)(4)

3. SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by \$691,421.00 from \$1,745,707,881.88 to \$1,746,399,302.88.

SUBCLIN 0017AA:

MQ: 21 1 2040 5L 5L68 P172419E555L 255Y 4M1J741900 S01021 4M1J741900/14MJLE/4M5 was increased by \$691,421.00 from \$0.00 to \$691,421.00

The contract ACRN MQ has been added.

Target Cost, Target Fee, and Total for the above increase of \$691,421 is distributed as follows and includes an increase in target cost of cost and facilities capital cost of money) and an increase in target incentive fee of the cost which it is not of target cost less facilities capital cost of money.

Target Cost
Target Fee
Total \$691,421

IMPLEMENTATION OF AND EXPLANATION OF THE RELATIONSHIP OF THE LIMITATION OF FUNDS (LOF) CLAUSE TO FEE OBLIGATIONS, subparagraph c., is revised to read as follows:

SUBCLIN 0017AA:	_	THIS	CUMULATIVE	
	<u>PRIOR</u>	MODIFICATION	TOTAL*	
(1) Amount Required for Full Funding,				
Including Fee:	\$1,575,303,571	\$691,421	\$ 1,575,994,992	
(2) Amount Allotted Under the LOF Clause			_	
for Payment of Costs:				[17/17]
(3) Amount Separately Obligated for				(4)(4)
Payment of Fee:				
(4) Total Amount Allotted and Obligated:	\$1,520,369,690.52	\$691,421	\$1,521,061,111.52	
(5) Net Amount Required for Full Funding	\$ 54,933,880.48	\$ 0	\$ 54,933,880.48	

- * These figures take into consideration the negotiated total value of SubCLIN 0017AA (This does not include SubCLIN 17AH)
- 4. SECTION H SPECIAL CONTRACT REQUIREMENTS is revised as follows:

Paragraph H-19, <u>INCENTIVE FEE STRUCTURE AND PAYMENT FOR CLIN 0017, SYSTEM DEVELOPMENT AND DEMONSTRATION (SDD)</u>, subparagraphs a. and b., are revised as follows:

a. General.

SubCLIN 0017AA, System Development and Demonstration (SDD), is a cost-plus-incentive-fee (CPIF) Line Item with cost and schedule incentives as described below. Paragraph H-19(b) applies only to the Cost Incentive and Paragraph H-19(c) applies only to the Schedule Incentive. The contract price amount of \$1,575,994,992 includes a target cost of which includes which includes which is sufficient to of target cost less facilities capital cost of money.	(b)(4)
b. Cost Incentive.	
(1) The target fee payable under SubCLIN 0017AA is the target cost less facilities capital cost of money an amount equal to	
(2) The maximum fee payable under SubCLIN 0017AA is the target cost less facilities capital cost of money an amount equal to	(4)(4)
(3) The minimum fee payable under SubCLIN 0017AA is the target cost less facilities capital cost of money an amount equal to	(0)(1)
(4) Fee will be adjusted for actual cost that is less than or more than the target cost stated above using a share ratio of Government ontractor for actual costs less than the target cost, and a ratio of contractor for actual costs greater than the target cost range applied according to Paragraph H-19(c)(1).	
(5) Nothing stated in this clause shall take precedence over the clause 52.216-10 - Incentive Fee contained in this contract.	
c. Schedule and Performance Incentive.	
(1) A maximum street will be established at the target cost value of conduct of milestones below. The "flat zone" over which the contractor will earn target tee is for eligible costs from once the program milestones set forth below are conducted.	(6)(4)
	(b)(4)
conclusion of the contract.	(b)(b) (b)(b)
(b) of the maximum benefit of the "flat zone", earned by the conduct of SDD Orbit Critical Design review NLT 2nd Quarter, Fiscal Year 2009. (It is hereby acknowledged by the government that Raytheon	(b)(4)
completed the requirement for this flat zone and earned the "Flat Zone" schedule incentive of determination of incentive fee payment utilizing the "Flat Zone" amount will be made at the conclusion of the	(b)(4)
contract. Reference letter, dated 12 January 2009, from	(P)(P)
(3) For Earned Value and cost reporting purposes, the target cost value of the second	(4)(4)
d. Changes issued under FAR 52.243-2, Changes - Cost Reimbursement	

In the event of a change issued under FAR 52.243-2, Changes - Cost Reimbursement, it is agreed that changes to the

performance and schedule incentive may be considered a part of the equitable adjustment. In the event that any Options to CLIN 0017 are added and exercised, the incentive fee for cost and schedule/performance applicable to the Option will be incorporated in accordance with the incentive fee structure of this provision.

5. The following is an update to Modification P00240 showing a summary of funding by ACRN through Modification P00241:

<u>ACRN</u>	FUNDING
AA	440,100.00
AB	2,298,235.00
AC	17,832,987.00
AD	0.00
AE	7,500,000.00
AF	3,300,000.00
AG	17,192,400.00
AH	700,000.00
AJ	200,000.00
AK	85,000.00
AL	45,000.00
AM	17,045,000.00
AN	5,800.00
AP	20,779,000.00
AQ	105,000.00
AR	35,000.00
AS	0.00
ΑT	6,984,678.52
AU	7,970,000.00
AV	0.00
AW	100,000.00
AX	3,396,000.00
AY	550,000.00
AZ	19,412,000.00
BA	24,527,878.00
BB	146,000.00
BC	72,000.00
BD	85,000.00
BE	100,000.00
BF	100,000.00
BG	1,975,321.00
BH	38,018,908.00
BJ	7,896,673.34
BK	260,000.00
BL	0.00
BM DN	125,000.00
BN	103,000.00
BP	10,199,288.50
BU	350,000.00
BV	9,000.00

	04.005.050.00
BW	84,896,852.00
BX	1,146,000.00
BY	3,880,000.00
BZ	190,000.00
KL	118,250.00
KM	192,793,000.00
KN	0.00
KQ	92,811.00
KR	0.00
KS	0.00
KT	386,377,998.00
KU	2,203,183.00
KV	65,000.00
KW	20,000.00
KX	60,000.00
KY	25,000.00
KZ	25,000.00
LA	
	13,508.00
LB	12,500.00
LC	200,000.00
LD	7,943,648.00
LE	1,173,850.00
LF	10,000.00
LG	62,000.00
LH	400,000.00
LJ	7,476.00
LK	\$281,575,897.00
LL	\$173,798.00
LM	\$1,410,376.00
LN	\$630,061.00
LP	\$83,200.00
LQ	\$235,566.00
LR	\$125,000.00
LS	\$6,069,616.00
LT	\$530,377.00
LU	\$9,100,000.00
LV	\$1,957,265.00
LW	\$255,567.00
LX	\$68,000.00
LY	\$264,807,424.52
LZ	\$1,751,384.00
MA	\$2,982,442.00
MB	\$375,000.00
MC	\$2,283,481.00
MD	\$8,573.00
ME	\$0.00
MF	\$268,162,809.00
MG	\$6,262,095.00
MH	\$213,390.00
MJ	\$858,495.00

MK	\$56,076.00
ML	\$ 116 , 044.00
MM	\$1,618,600.00
MN	\$2,087,000.00
MP	\$250,000.00
MQ	\$691,421.00

6. The following is an update to Modification P00240 showing a summary of funding by CLIN by ACRN through Modification P00241:

CLIN	ACRN	FUNDING AMT	CLIN TOTAL
CLIN 0001	AA	440,100.00	
CLIN 0001	AD	0.00	
			440,100.00
CLIN 0003	AB	2,298,235.00	
CLIN 0003	AC	17,832,987.00	
CLIN 0003	AD	0.00	
CLIN 0003	A E	7,500,000.00	
CLIN 0003	AF	3,300,000.00	
CLIN 0003	AG	17,192,400.00	
CLIN 0003	AH	700,000.00	
CLIN 0003	AM	17,045,000.00	
CLIN 0003	AN	5,800.00	
CLIN 0003	AP	20,779,000.00	
CLIN 0003	AS	0.00	
CLIN 0003	AT	6,984,678.52	
CLIN 0003	AW	100,000.00	
CLIN 0003	AY	550,000.00	
			94,288,100.52
CLIN 0005	ВА	24,527,878.00	
CLIN 0005	BB	146,000.00	
CLIN 0005	BC	72,000.00	
CLIN 0005	BD	85,000.00	
CLIN 0005	BE	100,000.00	
CLIN 0005	BF	100,000.00	
CLIN 0005	BG	1,975,321.00	
CLIN 0005	вн	38,018,908.00	
CLIN 0005	B L	0.00	
CLIN 0005	BZ	0.00	
			65,025,107.00
CLIN 0007AA	BP	10,199,288.50	
ODIN VVV/MA	Di	10,177,200.30	
			10,199,288.50

CLIN 0009AA			
	AQ	45,106.00	
CLIN 0009AA	AV	0.00	
CLIN 0009AA	BK	256,545.00	
CLIN 0009AA	ВМ	125,000.00	
CLIN 0009AA	BN	21,315.00	
			447,966.00
CLIN 0009AB	AJ	200,000.00	
CLIN 0009AB	AK AK	85,000.00	
CLIN 0009AB	AL	45,000.00	
CLIN 0009AB	AQ	59,894.00	
CLIN 0009AB	AR	35,000.00	
CLIN 0009AB	BK	3,455.00	
CLIN 0009AB	BN	81,685.00	
CLIN 0009AB	BU	350,000.00	
CLIN 0009AB	BV	9,000.00	
CLIN 0003AB	DA	7,000.00	869,034.00
		-	809,034.00
CLIN 0013	AU	7,970,000.00	
CLIN 0013	AX	3,396,000.00	
CLIN 0013	AY	0.00	
CLIN 0013	ΑZ	19,412,000.00	
CLIN 0013	ВЈ	7,896,673.34	
			38,674,673.34
Ct IN AA17	DW	0.00	
CLIN 0017	BW	0.00	
CI DI OO17		0.00	
CLIN 0017	KM	0.00	0.00
CLIN 0017	KM	0.00	0.00
CLIN 0017 CLIN 0017AA	KM BY	3,880,000.00	0.00
		-	0.00
CLIN 0017AA	ву	3,880,000.00	0.00
CLIN 0017AA CLIN 0017AA	BY BX	3,880,000.00 1,146,000.00	0.00
CLIN 0017AA CLIN 0017AA CLIN 0017AA	BY BX BW	3,880,000.00 1,146,000.00 84,896,852.00	0.00
CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA	BY BX BW BZ	3,880,000.00 1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00	0.00
CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA	BY BX BW BZ KM KN	3,880,000.00 1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00	0.00
CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA	BY BX BW BZ KM KN KQ KS	3,880,000.00 1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00	0.00
CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA	BY BX BW BZ KM KN KQ KS KT	3,880,000.00 1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00	0.00
CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA	BY BX BW BZ KM KN KQ KS KT	3,880,000.00 1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00 2,203,183.00	0.00
CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA	BY BX BW BZ KM KN KQ KS KT KU	3,880,000.00 1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00 2,203,183.00 0.00	0.00
CLIN 0017AA	BY BX BW BZ KM KN KQ KS KT KU KY	3,880,000.00 1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00 2,203,183.00 0.00 200,000.00	0.00
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CLIN 0017AA	BY BX BW BZ KM KN KQ KS KT KU KY	3,880,000.00 1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00 2,203,183.00 0.00 200,000.00 7,943,648.00 0.00	0.00
CLIN 0017AA	BY BX BW BZ KM KN KQ KS KT KU KY LC LD	3,880,000.00 1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00 2,203,183.00 0.00 200,000.00 7,943,648.00	0.00
CLIN 0017AA	BY BX BW BZ KM KN KQ KS KT KU KY LC LD LE	3,880,000.00 1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00 2,203,183.00 0.00 200,000.00 7,943,648.00 0.00	0.00
CLIN 0017AA	BY BX BW BZ KM KN KQ KS KT KU KY LC LD LE LH	3,880,000.00 1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00 2,203,183.00 0.00 200,000.00 7,943,648.00 0.00 400,000.00	0.00
CLIN 0017AA	BY BX BW BZ KM KN KQ KS KT KU KY LC LD LE LH	3,880,000.00 1,146,000.00 84,896,852.00 0.00 192,793,000.00 66,151.00 0.00 386,204,200.00 2,203,183.00 0.00 200,000.00 7,943,648.00 0.00 400,000.00 7,476.00	0.00
CLIN 0017AA	BY BX BW BZ KM KN KQ KS KT KU KY LC LD LE LH LJ LK	3,880,000.00 1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00 2,203,183.00 0.00 200,000.00 7,943,648.00 0.00 400,000.00 7,476.00 281,575,897.00	0.00

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	530,377.00	LT	CLIN 0017AA
	\$9,100,000.00	LU	CLIN 0017AA
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	\$255,567.00	LW	CLIN 0017AA
	\$68,000.00	LX	CLIN 0017AA
	\$264,807,424.52	LY	CLIN 0017AA
	\$375,000.00	MB	CLIN 0017AA
	\$2,283,481.00	MC	CLIN 0017AA
	\$8,573.00	MD	CLIN 0017AA
	\$0.00	ME	CLIN 0017AA
	\$268,162,809.00	MF	CLIN 0017AA
	\$213,390.00	MH	CLIN 0017AA
	\$858,495.00	MJ	CLIN 0017AA
	\$56,076.00	MK	CLIN 0017AA
	\$116,044.00	ML	CLIN 0017AA
	\$1,618,600.00	MM	CLIN 0017AA
	\$2,087,000.00	MN	CLIN 0017AA
	\$250,000.00	MP	CLIN 0017AA
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CLIN 0021AB	KV	0.00	
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CLIN 0021AB	KX	0.00	
CLIN 0021AB	KY	0.00	
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CLIN 0021AC	KZ	0.00	
CLIN 0021AC	LA	0.00	
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CLIN 0022	KW	0.00	
CLIN 0022	K.W	0.00	0.00
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CLIN 0023	KX	60,000.00	
CLIN 0023	KY	25,000.00	
CLIN 0023	KV	65,000.00	
CLIN 0023	LB	12,500.00	
CLIN 0023	LF	10,000.00	
CLIN 0023	LR	\$125,000.00	
		-	297,500.00
CLIN 0024	LA	13,508.00	
CLIN 0024	LG	62,000.00	
CLIN 0024	KZ	25,000.00	
CLIN 0024	KW	20,000.00	
CLIN 0024	LP	83,200.00	
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CLIN 0025	LE	1,173,850.00	
CLIN 0025	LM	1,080,404.00	
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			2,254,254.00
CLIN 0026	LN	630,061.00	
			630,061.00
CLIN 0027	LZ	1,751,384.00	
	22		1,751,384.00
CLIN 0028	LM	329,972.00	
CLIN 0028	MA	2,982,442.00	
CLIN 0028	MG	6,262,095.00	

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7. In consideration of the modification agreed to herein as complete equitable adjustment for the JLENS Heater Kit proposal submitted via Raytheon letter JLENS-23414-11-025, dated 11 March 2011, and revised via Raytheon letters JLENS-23414-11-087, dated 17 September 2011, and JLENS-23414-11-087(a), dated 12 October 2011, the contractor hereby releases the government from any and all liability under this contract for further equitable adjustments attributable to such facts or circumstances giving rise to the proposal for adjustment.

(End of Summary of Changes)

AMENDMENT OF SOLICIT	ATIONALORI	TICATION OF CONTRACT	I. CONTRAC	LID CODE	PAGEOF	PAGES
amendment of solicit		UNIKAUI	V		1 1	6
MENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT	NO.(Ifapplica	ble)
³ 00242	10320011			1		
SUED BY CODE	W9113M	7. ADMINISTERED BY (Ifother than item 6)	cc	DE S220	5A	
SASMDC/ARSTRAT		DCMA RAYTHEON SO APPLE HILL DRIVE		•		
MDC-RDC O BOX 1800		M/S T2FR2 TEWIGSBURY MA 01878				
UNTSVILLE AL 36807-3801						
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NAME AND ADDRESS OF CONTRACTOR RAYTHEON COMPANY	(No., street, County,	scate and Zip Code)	JA. ANDION	12141 01-30		A1110.
350 LOWELL ST. ANDOVER MA 01810-4400			9B. DATED (SEE ITEM I	1)	
			104 4400 0	E CONTRAC	TANDED	VO.
			X DASG60-98-0	>0001 -0001	.I /ORDER !	10.
			10B. DATED	(SEE ITEM	13)	
DE 05716	FACILITY CO		X 30-Jan-1998			
		APPLIES TO AMENDMENTS OF SOLI				
The above numbered selicitation is amended as set for		•	is extended,	la not exter	BG 6G.	
Offir must acknowledge receipt of this amendment pri (a) By completing items 8 and 15, and returning	•	cided in the solicitation or as amended by one oft nt; (b) By acknowledging receipt of this amendme	•	Mer submitted:		
or (c) By separate letter or telegram which includes a	reference to the solicitation	and amendment numbers. FAILURE OF YOUR	CKNOWLEDGMENT			
RECEIVED ATTHE PLACE DESIGNATED FOR T						
REJECTION OF YOUR OFFER, If by virtue of this a provided each telegram or letter makes reference to the				a rc 7,		
ACCOUNTING AND APPROPRIATION D	ATA (If required)		-			
·						
		TO MODIFICATIONS OF CONTRACT:				
**************************************		CT/ORDER NO. AS DESCRIBED IN ITI				
A. THIS CHANGE ORDER IS ISSUED PURS CONTRACT ORDER NO. IN ITEM 10A.		nuthority) THE CHANGES SET FORTH	IN ITEM 14 ARE	MADE IN TI	HE	
						· · · · · · · · · · · · · · · · · · ·
B. THE ABOVE NUMBERED CONTRACTA office, appropriation date, etc.) SET POR				as changes in	paying	
C. THIS SUPPLEMENT AL AGREEMENT I			(43.103(D).			
FAR 43.103(a) (3), Mutual Agreement						
D. OTHER (Specify type of modification and	lauthority)	•				
IMPORTANT: Contractor is not.	x is required to sig	n this document and return 1	copies to the issuin	a office		
 DESCRIPTION OF AMENDMENT/MODIF where (easible.) 	ICATION (Organized	by UCF section headings, including solic	itation/contract sub	ject matter		
Modification Control Number:						
o revise Section H-19, INCENTIVE FEE STRU			BVT AND DEMONS	TRATION		
SDD), to add performance criteria and incre	ase the flat zone oppo	ortunity.				
ept as provided herein, all terms and conditions of the d	ocument referenced in Item!	9A or 10A, 44 hereto bre changed, remains unchas	ged and in full force and	l effici.		
Office of the state of the stat	print)	JAA. NAME AND TITLE OF CO	TRACTING OFFI	CER (Type o	r print)	
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Prescribed by GSA

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

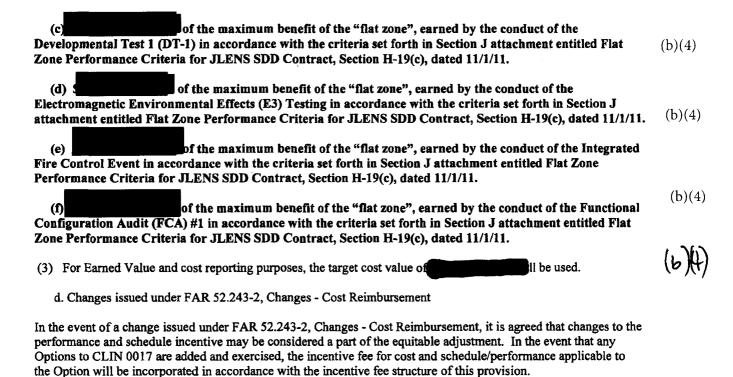
SUMMARY OF CHANGES

1. SECTION H - SPECIAL CONTRACT REQUIREMENTS is revised as follows:

Paragraph H-19, <u>INCENTIVE FEE STRUCTURE AND PAYMENT FOR CLIN 0017, SYSTEM DEVELOPMENT AND DEMONSTRATION (SDD)</u>, subparagraph c., is revised as follows:

a. General.

SubCLIN 0017AA, System Development and Demonstration (SDD), is a cost-plus-incentive-fee (CPIF) Line Item with cost and schedule incentives as described below. Paragraph H-19(b) applies only to the Cost Incentive and Paragraph H-19(c) applies only to the Schedule Incentive. The contract price amount of \$1,575,994,992 includes a target cost of \$1,575,994,992 includes a target cost of \$1,575,994,992 includes a target incentive fee of which is of target cost less facilities capital cost of money.	(v)(4)
b. Cost Incentive.	
(1) The target fee payable under SubCLIN 0017AA is the target cost less facilities capital cost of money an amount equal to	(b)(4)
(2) The maximum fee payable under SubCLIN 0017AA is not the target cost less facilities capital cost of money an amount equal to	(*)(1)
(3) The minimum fee payable under SubCLIN 0017AA is soft the target cost less facilities capital cost of money an amount equal to	
(4) Fee will be adjusted for actual cost that is less than or more than the target cost stated above using a share ratio Government Contractor for actual costs less than the target cost, and a ratio of Government / Contractor for actual costs greater than the target cost range applied according to Paragraph H-19(c)(1).	(b)(4)
(5) Nothing stated in this clause shall take precedence over the clause 52.216-10 - Incentive Fee contained in this contract.	
c. Schedule and Performance Incentive.	
(1) A maximum "flat zone" will be established at the target cost value of conduct of milestones below. The "flat zone" over which the contractor will earn target fee is for eligible costs from once the program milestones set forth below are conducted.	(b)(4)
(a) Consider the conduct of the maximum benefit of the "flat zone", earned by the conduct of the SDD System Functional Review NLT 2nd Quarter, Fiscal Year 2007. (It is hereby acknowledged by the government that Raytheon completed the requirement for this flat zone and earned the "Flat Zone" schedule incentive of	(b)(4)
Final determination of incentive fee payment utilizing the "Flat Zone" amount will be made at the conclusion of the contract. Reference letter	(b)(d)
(b) of the maximum benefit of the "flat zone", earned by the conduct of SDD Orbit Critical Design review NLT 2nd Quarter, Fiscal Year 2009. (It is hereby acknowledged by the government that Raytheon completed the requirement for this flat zone and earned the "Flat Zone" schedule incentive of determination of incentive fee payment utilizing the "Flat Zone" amount will be made at the conclusion of the	(b)(4)
contract. Reference letter,	(e)(d)
002386	



2. SECTION J - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

The following has been revised to reflect an update to CLIN 0017, JLENS SDD Program Statement of Work and CLIN 0017, Contract Data Requirements List (DD Form 1423) and to delete CLIN 0017, Performance Incentive Fee Critiera/Evidence, undated and consisiting of eight (8) pages:

TITLE	<u>DATE</u>	# OF PAGES
Contract Security Classification Specification (DD Form 254) Revision 13 (Added per Modification P00235)	, 14 Apr 11	13
JLENS Software Source Code Specifically Negotiated License License Number JLENS-SWLA-01 (Added per Modification P00166)	e, 04 Sep 08	8
CLIN 0017: JLENS System Development and Demonstration (SDD) Program Statement of Work (Revised by Incorporating CSDR Plans dated 20 Febr 2007 in Appendix C per Modification P00136)	30 Nov 06 - Revised 20 Feb 07	37
JLENS System Development and Demonstration (SDD) Program Statement of Work (Added per Modification P00187)	Revised 06 Apr 09	38
JLENS System Development and Demonstration (SDD) Program Statement of Work, Revision 2 (Added per Modification P00207)	Revised 09 Mar 10	36

JLENS System Development and Demonstration (SDD) Program Statement of Work, Revision 3 (Added per Modification P00239)	Revised 01 Sep 11	36	
JLENS System Development and Demonstration (SDD) Program Statement of Work (Added per Modification P00240)	Revised 26 Sep 11	36	
	March 08	1	(b)(3)(A) (i)&Title 10
Contract Data Requirements List (DD Form 1423) Exhibit A with Distribution List & Data Item Nos. B001 through B062	01 Dec 06	63	Sec 130 (a)(b)
(Replace Data Item Nos. B026 and B027, only	Revised 05 Apr 07		
Per Modification P00136) (Replace Data Item Nos. B048 and B049, only Per Modification P00143 & to add statement in	Revised 24 Oct 07		
Section A of Modification P00143) (Replace Data Item No. B033 only, per Modification P00161)	Revised 11 Jul 08	1	
Contract Data Requirements List (DD Form 1423) Exhibit A, Data Item Nos. B001 and B014 (Added per Modification P00187)	Revised 07 May 09	2	
Contract Data Requirements List (DD Form 1423) Exhibit A, Data Item Nos. B002 through B062 (less B014) (Added per Modification P00187)	Revised 20 Mar 09	60	
Contract Data Requirements List (DD Form 1423) Exhibit A, Data Item Nos. B001 and B014 (Added per Modification P00239)	Revised 30 Aug 11	2	
*Added statement below to address weekends/Holidays:	24 October 07		

*Per a mutual agreement between Raytheon and JLENS Product Office all Contract Data Requirements List (CDRL's) (DD Form 1423) are due on the next business day after the required due date if the due date falls on Saturday, Sunday or a Government Holiday. In addition, for any CDRL with a requirement to resubmit within 10 days or less after receipt of comments, where Raytheon receives the comments on a Friday, the timeframe for resubmittal will begin on the next business day. Statement added in Mod P00143 on 24 Oct. 2007.

GFE/GFP/GFS List for SDD	28 Nov 06	2
Replaced with Rev. B List	15 Oct 07	6
**Add items below	Revised 22 Oct 07	
For record-keeping purposes		
(Per Mod P00143)		
Replaced with Revision C List	09 Mar 09	12
(Per Modification P00183)		
Replaced with Revision D List	23 Feb 10	11
(Per Modification P00207)		

(In Mod P00143)

**Per the DCMA and Raytheon is authorized rent free use on a non-interference use of the equipment listed below for utilization on JLENS Fire Control Radar Prime Contract DASG60-98-C-(b)(4) 0001 for the period from 19 April 2007 through 30 September 2011.

V.	
	(h)(2)
	(U)(S)
	(b)(3) (A)
	(A)
	(11)

Hereby added in Mod P00148 for tracking purposes:

Originated in Basic Contract:

Government Furnished Equipment - Spiral 1 (Spiral 1 Equipment Transferred to Government

Contract DASG60-00-C-0091 DD Form 1149 (attached) (b)(6)

20 Jun 03

1 List

25 Mar 07*

34 pages

(Revised 21 Nov 07)*

34 pages

Snip to address:

(b)(4)

*NOTE: Items 1-1060 transferred to Contract DASG60-00-C-0091 per revised GFE list dated 21 Nov 07. Items 1061 - 1116 GFE items retained on Contract DASG60-98-C-0001 for Spiral 2 per GFE list dated 25 Mar 07.

JLENS Performance Specification, MIS-PRF-55628, Revision A	27 Jun 08	136
(Added by reference per Modification P00168)		
Annex A to the JLENS Performance Specification, MIS-PRF-55628, Revision A	27 Jun 08	10
(Added by reference per Modification P00168)		
JLENS SDD DD250 Plan (Added per Modification P00207)	11 Dec 09	5
Engineering Change Proposal (ECP) MI-N3893, Revision 2, CDRL B039-005b	15 Nov 10	15
Engineering Change Proposal (ECP) MI-N3894, CDRL B039-006	18 Aug 10	16
Engineering Change Proposal (ECP) MI-N3895, CDRL B039-007	28 Sep 10	50
Engineering Change Proposal (ECP) JL1359 (Added per Modification P00240)	20 Jun 11	7

Flat Zone Performance Criteria for JLENS SDD Contract, Section H-19(c) (Added per Modification P00242)	01 Nov 11	4	
CLINs 0023 and 00024 JLENS Simulation Support SOW dated 28 January 2008 Simulation Support Tasks (Added per Mod P00160)	28 January 2008	2	(b)(3)(A) (i)&Title 10 Sec 130 (a)(b)
<u>CLIN 0025</u>			
JLENS Integrated Fire Control Demonstration Program Statement of Work, Revision 5 (Added per Modification P00211)	14 Sep 09	3	
JLENS Integrated Fire Control Demonstration Program Program and Technical Clarification Description, incorporated herein by reference (Added per Modification P00211)	30 Mar 10	26	
Contract Data Requirements List (DD Form 1423) Exhibit B, Data Items Nos. B001 through B004, with Data Item Descriptions (Added per Modification P00165)	16 Oct 07	19	
Contract Data Requirements List (DD Form 1423), CLIN 0028, Exhibit B, Data Item Nos. B001 through B006 (Added per Modification P00211)	16 Jun 10	6	
<u>CLIN 0027</u>			
JLENS System Integration Lab (SIL) Equipment List (Added per Modification P00196)	Undated	6	
Revision to System Integration Lab (SIL) Equipment List (Added per Modification P00217)	02 Aug 10	6	

(End of Summary of Changes)

Total Flat Spot Opportunity for Event	k E	vent Criteria	Flat Spot Allotment	Evidence	1 1 1 B	Remarks
1999				A summary report is provided to the JPO NLT 30 days prior to the FCA which links testing and/or analysis to functional requirements Supporting test reports and analysis identified in the above report are organized and made available to the JPO when the summary report is provided		
		ES FEMALES		 Memorandum stating completion of ever path forward on failures, issues, or areas for 		If completed after 09/30/2012, the following will apply: f completed after 09/30/2012
		(b)(3)(A)(i)&Title 10 130 (a)(b)	Sec			(b)(d)
(b)(4)			(b)(4)			

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10B. DATED (30-lan-1988) 11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS The above numbered solicitation is amended as set firth in Item 14. The hour and date specified fir receips of offer is extended, Other must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one on of the fillowing receipts of this amendment on each copy of the offer of (a) By completing items and 15, and returning copies of the amendment, (b) the specials of this amendment on each copy of the offer of (b) the special better or telegrams which includes a reflected to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY PEBLUT IN RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY PEBLUT IN RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY PEBLUT IN RECEIVED AT THE HOUR AND DATE SPECIFIED MAY RESULT IN RECEIVED AT THE HOUR AND DATE SPECIFIED MAY RESULT IN RECEIVED AT THE HOUR AND DATE SPECIFIED MAY RESULT IN RECEIVED AT THE HOUR AND DATE SPECIFIED MAY RESULT IN THE MET SHOW THE AND THE HOUR AND DATE SPECIFIED THE AUTHOR OF YOUR OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED TO THE SPECIFIED TO THE OFFERS PRIOR THE HOUR AND DATE SPECIFIED TO THE AUTHORITY OF THE	SEE ITEM	(11)
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Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning		
	is not ex	extended,
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14. A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE M. CONTRACT ORDER NO. IN ITEM 10A. B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B). C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: (D. OTHER (Specify type of modification and authority) UNILATERAL: FAR 52.232-22, "Lirritation of Funds" 3. IMPORTANT: Contractor X is not, is required to sign this document and return copies to the issuing 44. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subjection for the classible.) A. MODIFICATION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subjection for the classible.) A. MODIFICATION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subjection for the classible.) A. MODIFICATION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subjection for the classible.) A. MODIFICATION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subjection for the classible.) A. MODIFICATION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subjection for the classible.) A. MODIFICATION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subjection for the classible.) A. MODIFICATION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subjection for the classible.) A. MODIFICATION OF AMENDMENT OF THE	тто ве	sd;
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14. A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE M CONTRACT ORDER NO. IN ITEM 10A. B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such a office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B). C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: (D. OTHER (Specify type of modification and authority) UNLATERAL: FAR 52.232-22, "Limitation of Funds" E. IMPORTANT: Contractor is not, is required to sign this document and return copies to the issuing in the description of the property of the interpolation of the inter		
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14. A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE M. CONTRACT ORDER NO. IN ITEM 10A. B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such a office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B). C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: (D. OTHER (Specify type of modification and authority) UNLATERAL: FAR 52.232-22, "Limitation of Funds" S. IMPORTANT: Contractor X is not, is required to sign this document and return copies to the issuing 4. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subjewhere feasible.) Modification Control Number: To increase incremental funding for SubCLIN 0017AA in the amount of \$1,248,698.		
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B). C. THIS SUPPLEMENTAL ACREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: (D. OTHER (Specify type of modification and authority) UNLATERAL: FAR 52.232-22, "Limitation of Funds" 3. IMPORTANT: Contractor X is not, is required to sign this document and return copies to the issuing where feasible.) (A. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject where feasible.) (A. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject where feasible.) (B. Modification Control Number: To increase incremental funding for SubCLIN 0017AA in the amount of \$1,248,696.) (B. ANAME AND TITLE OF SIGNER (Type or print) 16A. NAME AND TITLE OF CONTRACTING OFFICE 15C. DATE SIGNED 15C. DA		
UNILATERAL: FAR 52.232-22, "Limitation of Funds" E. IMPORTANT: Contractor x is not, is required to sign this document and return copies to the issuing 14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subjection where feasible.) Modification Control Number: To increase incremental funding for SubCLIN 0017AA in the amount of \$1,248,696. Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as hereto five changed, remains unchanged and in full force and 15A. NAME AND TITLE OF SIGNER (Type or print) 16A. NAME AND TITLE OF CONTRACTING OFFICE 15B. CONTRACTOR/OFFEROR 15C. DATE SIGNED 15C. DATE SI	as changes	es in paying
E. IMPORTANT: Contractor X is not, is required to sign this document and return copies to the issuing 4. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subjection where feasible.) Modification Control Number: To increase incremental funding for SubCLIN 0017AA in the amount of \$1,248,696. Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as hereto fire changed, remains unchanged and in full force and 15A. NAME AND TITLE OF SIGNER (Type or print) 16A. NAME AND TITLE OF CONTRACTING OFFICE 15B. CONTRACTOR/OFFEROR 15C. DATE SIGNED		
4. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subjective feasible.) Modification Control Number: To increase incremental funding for SubCLIN 0017AA in the amount of \$1,248,696. Second as provided herein, all terms and conditions of the document referenced in Item9A or 10A, as heretofire changed, remains unchanged and in full force and 15A. NAME AND TITLE OF SIGNER (Type or print) 16A. NAME AND TITLE OF CONTRACTING OFFICE SIGNED 15B. CONTRACTOR/OFFEROR 15C. DATE SIGNED	ng office.	THE THE RESERVE
where feasible.) Modification Control Number: To increase incremental funding for SubCLIN 0017AA in the amount of \$1,248,696. Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as hereto fire changed, remains unchanged and in full force and 15A. NAME AND TITLE OF SIGNER (Type or print) 15B. CONTRACTOR/OFFEROR 15C. DATE SIGNED	niect matter	13-19-1-11
15A. NAME AND TITLE OF SIGNER (Type or print) 16A. NAME AND TITLE OF CONTRACTING OFFICE 15B. CONTRACTOR/OFFEROR 15C. DATE SIGNED	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(b)(6)
15A. NAME AND TITLE OF SIGNER (Type or print) 16A. NAME AND TITLE OF CONTRACTING OFFICE 15B. CONTRACTOR/OFFEROR 15C. DATE SIGNED		
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15B. CONTRACTOR/OFFEROR 15C. DATE SIGNED 1	d effect.	
		pe or print) (b)
	and the same	A D . TO .
		16C. DATE SIGNE (b)(6) 15-Nov-2011
(Signature of person authorized to sign) (Signature of Contracting Officer)		

APPROVED BY OIRM 11-84

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

1. SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by \$1,248,696.00 from \$1,746,399,302.88 to \$1,747,647,998.88.

SUBCLIN 0017AA:

MF: 21 1 2040 5L 5L68 P172419E555L 255Y 4M1J730000 S01021 4M1J730000/14MJLE/4M5 was increased by \$1,248,696.00 from \$268,162,809.00 to \$269,411,505.00

Target Cost, Target Fee, and Total for the above increase of \$1,248,696 is distributed as follows and includes an increase in target cost of cost and facilities capital cost of money) and an increase in target incentive fee of the second facilities capital cost of money.

(6)(4)

Target Cost Target Fee Total



(b)(4)

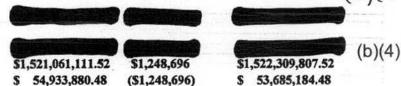
IMPLEMENTATION OF AND EXPLANATION OF THE RELATIONSHIP OF THE LIMITATION OF FUNDS (LOF) CLAUSE TO FEE OBLIGATIONS, subparagraph c., is revised to read as follows:

SUBCLIN 0017AA:

- Amount Required for Full Funding, Including Fee:
- (2) Amount Allotted Under the LOF Clause for Payment of Costs:
- (3) Amount Separately Obligated for Payment of Fee:
- (4) Total Amount Allotted and Obligated:
- (5) Net Amount Required for Full Funding

-	THIS	CUMULATIVE	
PRIOR	MODIFICATION	TOTAL*	

\$1,575,994,992 \$ 0 \$1,575,994,992



- * These figures take into consideration the negotiated total value of SubCLIN 0017AA (This does not include SubCLIN 17AH)
- 2. The following is an update to Modification P00241 showing a summary of funding by ACRN through Modification P00243:

ACRN	FUNDING		
AA		440,100.00	
AB		2,298,235.00	
AC		17,832,987.00	AM1 20/
AC		17,032,707.00	002396

AD	0.00
AE	7,500,000.00
AF	3,300,000.00
AG	17,192,400.00
AH	700,000.00
AJ	200,000.00
AK	85,000.00
AL	45,000.00
AM	17,045,000.00
AN	5,800.00
AP	20,779,000.00
AQ	105,000.00
AR	35,000.00
AS	0.00
AT	6,984,678.52
AU	7,970,000.00
AV	0.00
AW	100,000.00
AX	3,396,000.00
AY	550,000.00
AZ	19,412,000.00
BA	24,527,878.00
BB	146,000.00
BC	72,000.00
BD	85,000.00
BE	100,000.00
BF	100,000.00
BG	1,975,321.00
BH	38,018,908.00
BJ	7,896,673.34
BK	260,000.00
BL	0.00
BM	125,000.00
BN	103,000.00
BP	10,199,288.50
BU	350,000.00
BV	9,000.00
BW	84,896,852.00
BX	1,146,000.00
BY	3,880,000.00
BZ	190,000.00
KL	118,250.00
KM	192,793,000.00
KN	0.00
KQ	92,811.00
KR	0.00
KS	0.00
KT	386,377,998.00
KU	2,203,183.00
KV	65,000.00

	20.000.00
KW	20,000.00
KX	60,000.00
KY	25,000.00
KZ	25,000.00
LA	13,508.00
LB	12,500.00
LC	200,000.00
LD	7,943,648.00
LE	1,173,850.00
LF	10,000.00
LG	62,000.00
LH	400,000.00
LJ	7,476.00
LK	\$281,575,897.00
LL	\$173,798.00
LM	\$1,410,376.00
LN	\$630,061.00
LP	\$83,200.00
LQ	\$235,566.00
LR	\$125,000.00
LS	\$6,069,616.00
LT	\$530,377.00
LU	\$9,100,000.00
LV	\$1,957,265.00
LW	\$255,567.00
LX	\$68,000.00
LY	\$264,807,424.52
LZ	\$1,751,384.00
MA	\$2,982,442.00
MB	\$375,000.00
MC	\$2,283,481.00
MD	\$8,573.00
ME	\$0.00
MF	\$269,411,505.00
MG	\$6,262,095.00
MH	\$213,390.00
MJ	\$858,495.00
MK	\$56,076.00
ML	\$116,044.00
MM	\$1,618,600.00
MN	\$2,087,000.00
MP	\$250,000.00
MQ	\$691,421.00

3. The following is an update to Modification P00241 showing a summary of funding by CLIN by ACRN through Modification P00243:

CLIN

ACRN

FUNDING AMT CLIN TOTAL

CLIN 0001	AA	440,100.00
CLIN 0001	AD	0.00
		440,100.
CLIN 0003	AB	2,298,235.00
CLIN 0003	AC	17,832,987.00
CLIN 0003	AD	0.00
CLIN 0003	AE	7,500,000.00
CLIN 0003	AF	3,300,000.00
CLIN 0003	AG	17,192,400.00
CLIN 0003	AH	700,000.00
CLIN 0003	AM	17,045,000.00
CLIN 0003	AN	5,800.00
CLIN 0003	AP	20,779,000.00
CLIN 0003	AS	0.00
CLIN 0003	AT	6,984,678.52
CLIN 0003	AW	
34.000000000000000000000000000000000000		100,000.00
CLIN 0003	AY	550,000.0094,288,100.
CLIN 0005	BA	24,527,878.00
CLIN 0005	BB	146,000.00
CLIN 0005	BC	72,000.00
CLIN 0005	BD	85,000.00
CLIN 0005	BE	100,000.00
CLIN 0005	BF	100,000.00
CLIN 0005	BG	1,975,321.00
CLIN 0005	BH	38,018,908.00
CLIN 0005	BL	0.00
CLIN 0005	BZ	0.00
		65,025,107.
CLIN 0007AA	BP	10,199,288.50
		10,199,288.
CLIN 0009AA	AQ	45,106.00
CLIN 0009AA	AV	0.00
CLIN 0009AA	BK	256,545.00
CLIN 0009AA	ВМ	125,000.00
CLIN 0009AA	BN	21,315.00
		447,966.
CLIN 0009AB	AJ	200,000.00
CLIN 0009AB	AK	85,000.00
CLIN 0009AB	AL	45,000.00
CLIN 0009AB	AQ	59,894.00
CLIN 0009AB	AR	35,000.00
CDIT OUTAD	Aix	
		002399

CLIN 0009AB	BK	3,455.00
CLIN 0009AB	BN	81,685.00
CLIN 0009AB	BU	350,000.00
CLIN 0009AB	BV	9,000.00
		869,034.00
CLIN 0013	AU	7,970,000.00
CLIN 0013	AX	3,396,000.00
CLIN 0013	AY	0.00
CLIN 0013	AZ	19,412,000.00
CLIN 0013	BJ	7,896,673.34
		38,674,673.34
CLIN 0017	BW	0.00
CLIN 0017	KM	0.00
CLIN 0017	KM	0.00
CV DV COLGA A	DV.	2 200 200 20
CLIN 0017AA	BY	3,880,000.00
CLIN 0017AA	BX	1,146,000.00
CLIN 0017AA CLIN 0017AA	BW	84,896,852.00 0.00
CLIN 0017AA	BZ	
CLIN 0017AA	KM KN	192,793,000.00 0.00
CLIN 0017AA	KQ	66,151.00
CLIN 0017AA	KS	0.00
CLIN 0017AA	KT	386,204,200.00
CLIN 0017AA	KU	2,203,183.00
CLIN 0017AA	KY	0.00
CLIN 0017AA	LC	200,000.00
CLIN 0017AA	LD	7,943,648.00
CLIN 0017AA	LE	0.00
CLIN 0017AA	LH	400,000.00
CLIN 0017AA	LJ	7,476.00
CLIN 0017AA	LK	281,575,897.00
CLIN 0017AA	LQ	235,566.00
CLIN 0017AA	LS	6,069,616.00
CLIN 0017AA	LT	530,377.00
CLIN 0017AA	LU	\$9,100,000.00
CLIN 0017AA	LV	\$1,957,265.00
CLIN 0017AA	LW	\$255,567.00
CLIN 0017AA	LX	\$68,000.00
CLIN 0017AA	LY	\$264,807,424.52
CLIN 0017AA	MB	\$375,000.00
CLIN 0017AA	MC	\$2,283,481.00
CLIN 0017AA	MD	\$8,573.00
CLIN 0017AA	ME	\$0.00
CLIN OUT /AA	ME	

CLIN 0017AA	MF	\$269,411,505.00	
CLIN 0017AA	MH	\$213,390.00	
CLIN 0017AA	MJ	\$858,495.00	
CLIN 0017AA	MK	\$56,076.00	
CLIN 0017AA	ML	\$116,044.00	
CLIN 0017AA	MM	\$1,618,600.00	
CLIN 0017AA	MN	\$2,087,000.00	
CLIN 0017AA	MP	\$250,000.00	
CLIN 0017AA	MQ	\$691,421.00	
		1,522,3	309,807.52
OI DI ANIZAD	V.	118 250 00	
CLIN 0017AB	KL	118,250.00	18,250.00
		-	10,230.00
CLIN 0017AC	BZ	190,000.00	
		1 1 1 to NA 1 1 1 1 1 1 1 1	90,000.00
CLIN 0017AD	KN	0.00	
CLIN 0017AD	KS	0.00	
			0.00
CLIN 0017AE	LL	173,798.00	
		1	73,798.00
CLIN 0017AH	KT	173,798.00	
		1	73,798.00
CLIN 0020AA	KN	0.00	
CLIN 0020AA	KQ	26,660.00	
			26,660.00
CLIN 0021AA	KW	0.00	
			0.00
CLIN 0021AB	KV	0.00	
CLIN 0021AB	LB	0.00	
CLIN 0021AB	KX	0.00	
CLIN 0021AB	KY	0.00	
			0.00
CLIN 0021AC	KZ	0.00	
CLIN 0021AC	LA	0.00	
		00240) [
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		_	0.00
CLIN 0022	ĸw	0.00	
			0.00
CLIN 0023	KX	60,000.00	
CLIN 0023	KY	25,000.00	
CLIN 0023	KV	65,000.00	
CLIN 0023	LB	12,500.00	
CLIN 0023	LF	10,000.00	
CLIN 0023	LR	\$125,000.00	
			297,500.00
CLIN 0024	LA	13,508.00	
CLIN 0024	LG	62,000.00	
CLIN 0024	KZ	25,000.00	
CLIN 0024	KW	20,000.00	
CLIN 0024	LP	83,200.00	
		_	203,708.00
CLIN 0025	LE	1,173,850.00	
CLIN 0025	LM	1,080,404.00	
CLIN 0025	MA	0.00	
		_	2,254,254.00
CLIN 0026	LN	630,061.00	
		_	630,061.00
CLIN 0027	LZ	1,751,384.00	
		=	1,751,384.00
CLIN 0028	LM	329,972.00	
CLIN 0028	MA	2,982,442.00	•
CLIN 0028	MG	6,262,095.00	
			9,574,509.00

(End of Summary of Changes)

AMENDMENT OF SOLICIT	TATION/MODE	FICATION OF CONTRACT	1. CONTRACT	LID CODE	PAGE OF PAGES
AMENDMENT OF SOLICIT	ATION/MODI	FICATION OF CONTRACT	V		1 8
AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.		5, PROJECT	NO (Ifapplicable)
0244	30-Nov-2011			1000	
SSUED BY CODE	W9113M	7. ADMINISTERED BY (Ifother than item 6)	co	DE S220	5A
SASMDC/ARSTRAT MDC-RDC O BOX 1500 UNTSVILLE AL 35807-3801	-1	DCMA RAYTHEON 50 APPLE HILL DRIVE M/S T2FR2 TEWKSBURY MA 01876	*	1	
NAME AND ADDRESS OF CONTRACTOR	(No Street County	State and Zin Code)	9A. AMENDM	ENT OF SC	LICITATION NO.
RAYTHEON COMPANY 360 LOWELL ST. ANDOVER MA 01810-4400	(110., briedly, country,	, same and 2.1p could	9B. DATED (S		
		100	X 10A. MOD. OI DASG60-98-0	CONTRAC	CT/ORDER NO.
			10B. DATED	(SEE ITEM	13)
DE 05716	FACILITY CO		X 30-Jan-1998		
		APPLIES TO AMENDMENTS OF SOLIC			-1-4
The above numbered solicitation is amended as set for Offer must acknowledge receipt of this amendment p		L	is extended,	is not exte	naéa.
or (c) By separate letter or telegram which includes a RECEIVED AT THE PLACE DESIGNATED FOR REJECTION OF YOUR OFFER. If by virtue of this provided each telegramor letter makes reference to the	THE RECEIPT OF OFFERS amendment you desire to ch ac solicitation and this amen	S PRIOR TO THE HOUR AND DATE SPECIFIED nange an offer already submitted, such change may be	MAY RESULT IN made by telegram or le	V	
ACCOUNTING AND APPROPRIATION I	DATA (If required)				
See Schedule 13. THIS IT	EM APPLIES ONLY	TO MODIFICATIONS OF CONTRACTS	ORDERS.		
		ACT/ORDER NO. AS DESCRIBED IN ITE			1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
A. THIS CHANGE ORDER IS ISSUED PUR CONTRACT ORDER NO. IN ITEM 10A					
B. THE ABOVE NUMBERED CONTRACT office, appropriation date, etc.) SET FOR		D TO REFLECT THE ADMINISTRATIV RSUANT TO THE AUTHORITY OF FAR		as changes i	n paying
C. THIS SUPPLEMENTAL AGREEMENT	IS ENTERED INTO P	URSUANT TO AUTHORITY OF:	- E		
D. OTHER (Specify type of modification an UNILATERAL: FAR 52.232-22, "Limitation of	d authority) of Funds"				
IMPORTANT: Contractor X is not,	is required to si	ign this document and return	copies to the issuin	ng office.	
DESCRIPTION OF AMENDMENT/MODI where feasible.)	FICATION (Organize	d by UCF section headings, including solicit	ation/contract sub	ject matter	CONTRACTOR OF THE PARTY OF THE
Modification Control Number: To provide incremental funding in the amount B017, Integrated Support Plan, Sub-Plan ent etter, JLENS 2011-058, dated 30 Nov 2011.	titled Deployment Tran				(b)(6)
n swill striken e wer we	\$ 1.5 M				
ept as provided herein, all terms and conditions of the		n9A or 10A, as hereto fore changed, remains unchang			or print\
A. NAME AND TITLE OF SIGNER (Type of	ы ргшс)	TOA. NAME AND TITLE OF COM	INGOFF	CER (1 ype	(b)(6
B. CONTRACTOR/OFFEROR	15C. DATE SIGNI	ED			C. DATE SIGNED 0-Nov-2011 (b)(
(Signature of person authorized to sign)	-	(Signature of Contracting Offi	cer)		2011
XCEPTION TO SF 30		30-105-04 000(102	750-750 P. I.	ANDARD F	ORM 30 (Rev. 10-8

EXCEPTION TO SF 30
APPROVED BY OIRM 11-84

30-105-04 OO2403

STANDARD FORM 30 (Rev. 10-83)

The section of the se

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

1. SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by \$486,000.00 from \$1,747,647,998.88. to \$1,748,133,998.88.

SUBCLIN 0017AA:

MN: 21 1 2040 5L 5L68 P172419E555L 255Y 4M1J741300 S01021 4M1J741300/14MJLE/4M5 was increased by \$486,000.00 from \$2,087,000.00 to \$2,573,000.00

Target Cost, Target Fee, and Total for the above increase of \$486,000 is distributed as follows and includes an increase in target cost of cost and facilities capital cost of money) and an increase in target incentive fee of which it is not of target cost less facilities capital cost of money.

Target Cost
Target Fee
Total \$486,000

(b)(4)

IMPLEMENTATION OF AND EXPLANATION OF THE RELATIONSHIP OF THE LIMITATION OF FUNDS (LOF) CLAUSE TO FEE OBLIGATIONS, subparagraph c., is revised to read as follows:

SUBCLIN 0017AA:	THIS	CUMULATIVE
	PRIOR MODIFICATIO	N TOTAL*
(1) Amount Required for Full Funding,		
Including Fee:	\$1,575,994,992 \$ 0	\$ 1,575,994,992
(2) Amount Allotted Under the LOF Clause		
for Payment of Costs:	CHARLES CHARLES	11/4)
(3) Amount Separately Obligated for		(0)(4
Payment of Fee:		A VA
(4) Total Amount Allotted and Obligated:	\$1,522,309,807.52 \$486,000	\$1,522,795,807.52 (b)(4)
(5) Net Amount Required for Full Funding	\$ 53,685,184.48 (\$486,000)	\$ 53,199,184.48

^{*} These figures take into consideration the negotiated total value of SubCLIN 0017AA (This does not include SubCLIN 17AH)

2. The following is an update to Modification P00243 showing a summary of funding by ACRN through Modification P00244:

ACRN	FUNDING	100
AA		440,100.00
AB		2,298,235.00
AC		17,832,987.00

AD	0.00
AE	7,500,000.00
AF	3,300,000.00
AG	17,192,400.00
AH	700,000.00
AJ	200,000.00
AK	85,000.00
AL	45,000.00
AM	17,045,000.00
AN	5,800.00
AP	20,779,000.00
AQ	105,000.00
AR	35,000.00
AS	0.00
AT	6,984,678.52
AU	7,970,000.00
AV	0.00
AW	100,000.00
AX	3,396,000.00
AY	550,000.00
AZ	19,412,000.00
BA	24,527,878.00
BB	146,000.00
BC	72,000.00
BD	85,000.00
BE	100,000.00
BF	100,000.00
BG	1,975,321.00
BH	38,018,908.00
BJ	7,896,673.34
BK	260,000.00
BL	0.00
BM	125,000.00
BN	103,000.00
BP	10,199,288.50
BU	350,000.00
BV	9,000.00
BW	84,896,852.00
BX	1,146,000.00
BY	3,880,000.00
BZ	190,000.00
KL	118,250.00
KM	192,793,000.00
KN	0.00
KQ	92,811.00
KR	0.00
KS	0.00
KT	386,377,998.00
KU	2,203,183.00
KV	65,000.00

KW	20,000.00
KX	60,000.00
KY	25,000.00
KZ	25,000.00
LA	13,508.00
LB	12,500.00
LC	200,000.00
LD	7,943,648.00
LE	1,173,850.00
LF	10,000.00
LG	62,000.00
LH	400,000.00
LJ	7,476.00
LK	\$281,575,897.00
LL	\$173,798.00
LM	\$1,410,376.00
LN	\$630,061.00
LP	\$83,200.00
LQ	\$235,566.00
LR	\$125,000.00
LS	\$6,069,616.00
LT	\$530,377.00
LU	\$9,100,000.00
LV	\$1,957,265.00
LW	\$255,567.00
LX	\$68,000.00
LY	\$264,807,424.52
LZ	\$1,751,384.00
MA	\$2,982,442.00
MB	\$375,000.00
MC	\$2,283,481.00
MD	\$8,573.00
ME	\$0.00
MF	\$269,411,505.00
MG	\$6,262,095.00
MH	\$213,390.00
MJ	\$858,495.00
MK	\$56,076.00
ML	\$116,044.00
MM	\$1,618,600.00
MN	\$2,573,000.00
MP	\$250,000.00
MQ	\$691,421.00

3. The following is an update to Modification P00243 showing a summary of funding by CLIN by ACRN through Modification P00244:

CLIN

ACRN

FUNDING AMT CLIN TOTAL

CLIN 0001	AA	440,100.00	
CLIN 0001	AD	0.00	
			440,100.00
CLIN 0003	AB	2,298,235.00	
CLIN 0003	AC	17,832,987.00	
CLIN 0003	AD	0.00	
CLIN 0003	AE	7,500,000.00	
CLIN 0003	AF	3,300,000.00	
CLIN 0003	AG	17,192,400.00	
CLIN 0003	AH	700,000.00	
CLIN 0003	AM	17,045,000.00	
CLIN 0003	AN	5,800.00	
CLIN 0003	AP	20,779,000.00	
CLIN 0003	AS	0.00	
CLIN 0003	AT	6,984,678.52	
CLIN 0003	AW	100,000.00	
CLIN 0003	AY	550,000.00	
			94,288,100.52
CLIN 0005	BA	24,527,878.00	
CLIN 0005	BB	146,000.00	
CLIN 0005	BC	72,000.00	
CLIN 0005	BD	85,000.00	
CLIN 0005	BE	100,000.00	
CLIN 0005	BF	100,000.00	
CLIN 0005	BG	1,975,321.00	
CLIN 0005	ВН	38,018,908.00	
CLIN 0005	BL	0.00	
CLIN 0005	BZ	0.00	
	3		65,025,107.00
CLIN 0007AA	ВР	10,199,288.50	
		_	10,199,288.50
CLIN 0009AA	AQ	45,106.00	
CLIN 0009AA	AV	0.00	
CLIN 0009AA	BK	256,545.00	
CLIN 0009AA	BM	125,000.00	
CLIN 0009AA	BN	21,315.00	
CLIN 0009AA	BIN	21,313.00	447,966.00
CLIN 0009AB	AJ	200,000.00	
CLIN 0009AB	AK AK	85,000.00	
CLIN 0009AB	AL	45,000.00	
CLIN 0009AB		59,894.00	
CLIN 0009AB	AQ AR	35,000.00	
CLIN 0009AB	AK		
		0024	0./

CLIN 0009AB	BK		3,455.00	
CLIN 0009AB	BN		1,685.00	
CLIN 0009AB	BU		0,000.00	
CLIN 0009AB	BV	9	9,000.00	
				869,034.00
CLIN 0013	AU	7 970	0,000.00	
CLIN 0013	AX		5,000.00	
CLIN 0013	AY	3,370	0.00	
CLIN 0013	AZ	19 413	2,000.00	
CLIN 0013	BJ	10	5,673.34	
CERTOOIS	Д,	7,02		38,674,673.34
CLIN 0017	BW		0.00	
CLIN 0017	KM		0.00	
			0	0.00
CLIN 0017AA	BY	3.880	0,000.00	
CLIN 0017AA	BX		5,000.00	
CLIN 0017AA	BW		5,852.00	
CLIN 0017AA	BZ	0.000	0.00	
CLIN 0017AA	KM	192,793	3,000.00	
CLIN 0017AA	KN		0.00	
CLIN 0017AA	KQ	66	5,151.00	
CLIN 0017AA	KS		0.00	
CLIN 0017AA	KT	386,204	4,200.00	
CLIN 0017AA	KU		3,183.00	
CLIN 0017AA	KY		0.00	
CLIN 0017AA	LC	200	0,000.00	
CLIN 0017AA	LD	7,943	3,648.00	
CLIN 0017AA	LE		0.00	
CLIN 0017AA	LH	400	0,000.00	
CLIN 0017AA	LJ		7,476.00	
CLIN 0017AA	LK	281,573	5,897.00	
CLIN 0017AA	LQ	23:	5,566.00	
CLIN 0017AA	LS	6,069	9,616.00	4
CLIN 0017AA	LT	530	0,377.00	
CLIN 0017AA	LU	\$9,100	0,000.00	
CLIN 0017AA	LV	\$1,95	7,265.00	
CLIN 0017AA	LW	\$255	5,567.00	
CLIN 0017AA	LX	\$68	8,000.00	
CLIN 0017AA	LY	\$264,80	7,424.52	
CLIN 0017AA	MB	\$37:	5,000.00	
CLIN 0017AA	MC	\$2,283	3,481.00	
CLIN 0017AA	MD	S	8,573.00	
CLIN 0017AA	ME		\$0.00	
			A contract	

frage 5 5 C.

	\$269,411,505.00	MF	CLIN 0017AA
	\$213,390.00	MH	CLIN 0017AA
	\$858,495.00	MJ	CLIN 0017AA
	\$56,076.00	MK	CLIN 0017AA
	\$116,044.00	ML	CLIN 0017AA
	\$1,618,600.00	MM	CLIN 0017AA
	\$2,573,000.00	MN	CLIN 0017AA
	\$250,000.00	MP	CLIN 0017AA
	\$691,421.00	MQ	CLIN 0017AA
1,522,795,807.52	-		77777
_,,	-		
	118,250.00	KL	CLIN 0017AB
118,250.00	_		
	190,000.00	BZ	CLIN 0017AC
190,000.00	-		
	0.00	KN	CLIN 0017AD
	0.00 _	KS	CLIN 0017AD
0.00	-		
	173,798.00	LL	CLIN 0017AE
173,798.00			
	173,798.00 _	KT	CLIN 0017AH
173,798.00	_		
	0.00	KN	CLIN 0020AA
	26,660.00	KQ	CLIN 0020AA
26,660.00	_		
	0.00 _	KW	CLIN 0021AA
0.00	_		
	0.00	KV	CLIN 0021AB
	0.00	LB	CLIN 0021AB
	0.00	KX	CLIN 0021AB
0.00	0.00 _	KY	CLIN 0021AB
0.00	-		
	0.00	KZ	CLIN 0021AC
	0.00	LA	CLIN 0021AC
19	00240		
	, , , , , ,		

0.00	4.8		
0.00		***	
	0.00	KW	CLIN 0022
0.00			
	60,000.00	KX	CLIN 0023
	25,000.00	KY	CLIN 0023
	65,000.00	KV	CLIN 0023
	12,500.00	LB	CLIN 0023
	10,000.00	LF	CLIN 0023
	\$125,000.00	LR	CLIN 0023
297,500.00	_		
	13,508.00	LA	CLIN 0024
	62,000.00	LG	CLIN 0024
	25,000.00	KZ	CLIN 0024
	20,000.00	KW	CLIN 0024
	83,200.00	LP	CLIN 0024
203,708.00	_		
	1,173,850.00	LE	CLIN 0025
	1,080,404.00	LM	CLIN 0025
	0.00	MA	CLIN 0025
2,254,254.00	_		
	630,061.00	LN	CLIN 0026
630,061.00	_		
	1,751,384.00	LZ	CLIN 0027
1,751,384.00			
	329,972.00	LM	CLIN 0028
	2,982,442.00	MA	CLIN 0028
	6,262,095.00	MG	CLIN 0028
9,574,509.00	_		

(End of Summary of Changes)

AMENDMENT OF SOLIC	ITATION/MODII	FICATION OF CONTRACT	1. CONTRACT	ID CODE	PAGEO	F PAGES
					1	8
AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO		5. PROJECT	NO (Ifappli	cable)
0245	06-Dec-2011					
SSUED BY CODE JSASMDC/ARSTRAT SMDC-RDC PO BOX 1500 HUNTSVILLE AL 35807-3801	W9113M	7 ADMINISTERED BY (If other than item 6) DCMA RAYTHEON 50 APPLE HILL DRIVE M/S T2FR2 TEWKSBURY MA 01878	со	DE S220 5	5A	
NAME AND ADDRESS OF CONTRACT	OD Ale Street County	State and Time Code)	9A. AMENDM	ENT OF SOI	I CIT AT	ON NO
NAME AND ADDRESS OF CONTRACTOR RAYTHEON COMPANY	OR (No., Street, County,	State and Zip Code)	9A. AMENDIM	ENT OF 30	LICITAT	.ON NO.
350 LOWELL ST ANDOVER MA 01810-4400			9B. DATED (S	EE ITEM 11)	
			X DASG60-98-C	CONTRAC -0001	T/ORDER	. NO.
			10B. DATED	(SEE ITEM	13)	
DDE 05716	FACILITY CO		X 30-Jan-1998	_		
		APPLIES TO AMENDMENTS OF SOLI		-		
The above numbered solicitation is amended as se		•	is extended,	is not exter	ided.	
• •	•	cified in the solicitation or as amended by one oft	_			
(a) By completing Items 8 and 15, and returning or (c) By separate letter or telegram which include	·	ent; (b) By acknowledging receipt of this amendme	• • •			
RECEIVED AT THE PLACE DESIGNATED FO				IO BE		
REJECTION OF YOUR OFFER. Ifby virtue oft				tter,		
provided each telegram or letter makes reference to	o the solicitation and this amen	dment, and is received prior to the opening hour a	nd date specified.			
. ACCOUNTING AND APPROPRIATION See Schedule	N DATA (If required)					
·	ITEM APPLIES ONLY	TO MODIFICATIONS OF CONTRACTS	SORDERS.		, , , , , , , , , , , , , , , , , , , 	
IT M	ODIFIES THE CONTRA	CT/ORDER NO. AS DESCRIBED IN ITI	EM 14.	_		
A. THIS CHANGE ORDER IS ISSUED PU CONTRACT ORDER NO. IN ITEM 1		nuthority) THE CHANGES SET FORTH	IN ITEM 14 ARE I	MADE IN T	HE	
B. THE ABOVE NUMBERED CONTRAC	CT/ORDER IS MODIFIED	TO REFLECT THE ADMINISTRATIVE	/E CHANGES (such	as changes ir	n paying	
C. THIS SUPPLEMENTAL AGREEMEN		RSUANT TO THE AUTHORITY OF FA	K 43.103(B).		·	
D. OTHER (Specify type of modification UNLATERAL: FAR 52.232-22, "Limitation						
IMPORTANT: Contractor X is not	is required to si	gn this document and return	copies to the issuin	g office.		
DESCRIPTION OF AMENDMENT/MO	DIFICATION (Organized	d by UCF section headings, including solic	itation/contract sub	ject matter		
where feasible.)		•	•	•		(h)(i
Modification Control Number:		-1 -5 000 004 400 75				(D)(d)
Fo increase incremental funding for SubC	LIN OUT / AA IN THE SHOUL	nt or \$39,921,199.75.				
mept as provided herein, all terms and conditions of		······				
SA. NAME AND TITLE OF SIGNER (Typ	e or print)	16A. NAME AND TITLE OF CO	NTRACTING OFFI	CER (Type	or print)	(
		(b)(6)				(b)(6)
SP CONTRACTOR/OFFEROR	15C DATE STORE		NO.	160	DATE:	
5B. CONTRACTOR/OFFEROR	15C. DATE SIGNE	D 161		100		(6)
				06	6-Dec-20	ir(U)
(Signature of person authorized to sign)		(Signature of Contracting Of		1		
EXCEPTION TO SF 30		30-105-04	ST	ANDARD FO	ORM 30 (F	tev. 10-83

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

1. SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by \$39,921,199.75 from \$1,748,133,998.88 to \$1,788,055,198.63.

SUBCLIN 0017AA:

MR: 21 1 2040 5L 5L68 P172419E555L 255Y 4M1JX10200 S01021 4M1JX10200/14MJLX/4M5 was increased by \$39,921,199.75 from \$0.00 to \$39,921,199.75

The contract ACRN MR has been added.

Target Cost, Target Fee, and Total for the above increase of \$39,921,199.75 is distributed as follows and includes an increase in target cost of money) and an increase in target incentive fee of cost and which is cost of target cost less facilities capital cost of cost of money.

(b)(4)

(b)(4)

Target Cost		
Target Fee	3	
Tota!	\$39,921,199	.75

(D)(4) (L)(4

IMPLEMENTATION OF AND EXPLANATION OF THE RELATIONSHIP OF THE LIMITATION OF FUNDS (LOF) CLAUSE TO FEE OBLIGATIONS, subparagraph c., is revised to read as follows:

SUE	BCLIN 0017AA:	_	I	HIS	CUMULATIVE	
		<u>PRIOR</u>	MODIF	ICATION	TOTAL*	
(1)	Amount Required for Full Funding,					
	Including Fee:	\$1,575,994,992	\$	0	\$ 1,575,994,992	
(2)	Amount Allotted Under the LOF Clause					
	for Payment of Costs:					(b)X(4)
(3)	Amount Separately Obligated for	(b)(4)				
	Payment of Fee:	10/14				(ک) <i>(</i> ط
(4)	Total Amount Allotted and Obligated:	\$1,522,795,807.52	\$39,92	1,199.75	\$1,562,717,007.27	
(5)	Net Amount Required for Full Funding	\$ 53,199,184.48	(\$39,92	21,199.75)	\$ 13,277,984.73	

^{*} These figures take into consideration the negotiated total value of SubCLIN 0017AA (This does not include SubCLIN 17AH)

2. The following is an update to Modification P00244 showing a summary of funding by ACRN through Modification P00245:

<u>ACRN</u>	<u>FUNDING</u>	
AA		440,100.00
AB		2,298,235,00

AC	17,832,987.00
AD	0.00
AE	7,500,000.00
AF	3,300,000.00
AG	17,192,400.00
AH	700,000.00
AJ	200,000.00
AK	85,000.00
AL	45,000.00
AM	17,045,000.00
AN	5,800.00
AP	20,779,000.00
AQ	105,000.00
AR	35,000.00
AS	0.00
AT	6,984,678.52
AU	7,970,000.00
AV	0.00
AW	100,000.00
AX	3,396,000.00
AY	550,000.00
AZ	19,412,000.00
BA	24,527,878.00
BB	\$46,000.00
BC	72,000.00
BD	85,000.00
BE	100,000.00
BF	100,000.00
BG	1,975,321.00
ВН	38,018,908.00
BJ	7,896,673.34
BK	260,000.00
BL	0.00
BM	125,000.00
BN	103,000.00
BP	10,199,288.50
BU	350,000.00
BV	9,000.00
BW	84,896,852.00
BX	1,146,000.00
BY	3,880,000.00
BZ	190,000.00
KL	118,250.00
KM	192,793,000.00
KN	0.00
KQ	92,811.00
KR	0.00
KS	0.00
KT	386,377,998.00
KU	2,203,183.00

7777	65 000 00
KV	65,000.00
KW	20,000.00
KX	60,000.00
KY	25,000.00
KZ	25,000.00
LA	13,508.00
LB	12,500.00
LC	200,000.00
LD	7,943,648.00
LE	1,173,850.00
LF	10,000.00
LG	62,000.00
LH	400,000.00
LJ	7,476.00
LK	\$281,575,897.00
LL	\$173,798.00
LM	\$1,410,376.00
LN	\$630,061.00
LP	\$83,200.00
LQ	\$235,566.00
LR	\$125,000.00
LS	\$6,069,616.00
LT	\$530,377.00
LU	\$9,100,000.00
LV	\$1,957,265.00
LW	\$255,567.00
LX	\$68,000.00
LY	\$264,807,424.52
LZ	\$1,751,384.00
MA	\$2,982,442.00
MB	\$375,000.00
MC	\$2,283,481.00
MD	\$8,573.00
ME	\$0.00
MF	\$269,411,505.00
MG	\$6,262,095.00
MH	\$213,390.00
MJ	\$858,495.00
MK	\$56,076.00
ML	\$116,044.00
MM	\$1,618,600.00
MN	\$2,573,000.00
MP	\$250,000.00
MQ	\$691,421.00
MR	\$39,921,199.75

^{3.} The following is an update to Modification P00244 showing a summary of funding by CLIN by ACRN through Modification P00245:

CLIN	<u>ACRN</u>	FUNDING AMT	CLIN TOTAL
CLIN 0001	AA	440,100.00	
CLIN 0001	AD	0.00	
CLIN 0001	A.D	0.00	440,100.00
			440,100.00
CLIN 0003	AB	2,298,235.00	
CLIN 0003	AC	17,832,987.00	
CLIN 0003	AD	0.00	
CLIN 0003	AE	7,500,000.00	
CLIN 0003	AF	3,300,000.00	
CLIN 0003	AG	17,192,400.00	
CLIN 0003	AH	700,000.00	
CLIN 0003	AM	17,045,000.00	
CLIN 0003	AN	5,800.00	
CLIN 0003	AP	20,779,000.00	
CLIN 0003	AS	0.00	
CLIN 0003	AT	6,984,678.52	
CLIN 0003	AW	100,000.00	
CLIN 0003	AY	550,000.00	
	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	94,288,100.52
CLIN 0005	BA	24,527,878.00	
CLIN 0005	BB	146,000.00	
CLIN 0005	BC	72,000.00	
CLIN 0005	BD	85,000.00	
CLIN 0005	BE	100,000.00	
CLIN 0005	BF	100,000.00	
CLIN 0005	BG	1,975,321.00	
CLIN 0005	ВН	38,018,908.00	
CLIN 0005	BL	0.00	
CLIN 0005	BZ	0.00	
			65,025,107.00
CLIN 0007AA	ВР	10,199,288.50	
CLIN 000/AA	DI	10,133,288.30	
			10,199,288.50
CT TNI 0000 A A	40	AE 104 00	
CLIN 0009AA	AQ	45,106.00	
CLIN 0009AA	AV	0.00	
CLIN 0009AA	BK BM	256,545.00	
CLIN 0009AA	BM BN	125,000.00	
CLIN 0009AA	BN	21,315.00	447.066.00
			447,966.00
CLIN 0009AB	AJ	200,000.00	
CLIN 0009AB	AK	85,000.00	
CLIN 0009AB	AL	45,000.00	
	_	,	•

CLIN 0009AB	AQ	59,894.00	
CLIN 0009AB	AR	35,000.00	
CLIN 0009AB	BK	3,455.00	
CLIN 0009AB	BN	81,685.00	
CLIN 0009AB	BU	350,000.00	
CLIN 0009AB	BV	9,000.00	_
		869,034.00	
			=
CLIN 0013	AU	7,970,000.00	
CLIN 0013	AX	3,396,000.00	
CLIN 0013	AY	0.00	
CLIN 0013	ΑZ	19,412,000.00	
CLIN 0013	ВЈ	7,896,673.34	
		38,674,673.34	_
			=
CLIN 0017	BW	0.00	
CLIN 0017	KM	0.00	
CLIN 0017	IXAI	0.00	-
		0.00	=
OT 101 001 11 A	DV	2 000 000 00	
CLIN 0017AA	BY	3,880,000.00	
CLIN 0017AA	BX	1,146,000.00	
CLIN 0017AA	BW	84,896,852.00	
CLIN 0017AA	BZ	0.00	
CLIN 0017AA CLIN 0017AA	KM KN	192,793,000.00 0.00	
CLIN 0017AA CLIN 0017AA	KQ	66,151.00	
CLIN 0017AA CLIN 0017AA	KS KS	0.00	
CLIN 0017AA	KT	386,204,200.00	
CLIN 0017AA	KU	2,203,183.00	
CLIN 0017AA	KY	0.00	
CLIN 0017AA	LC	200,000.00	
CLIN 0017AA	LD	7,943,648.00	
CLIN 0017AA	LE	0.00	
CLIN 0017AA	LH	400,000.00	
CLIN 0017AA	LJ	7.476.00	
CLIN 0017AA	LK	281,575,897.00	
CLIN 0017AA	LQ	235,566.00	
CLIN 0017AA	LS	6,069,616.00	
CLIN 0017AA	LT	530,377.00	
CLIN 0017AA		\$9,100,000.00	
	LU	- ,	
CLIN 0017AA	LV	\$1,957,265.00	=
CLIN 0017AA	LW	\$255,567.00	=
CLIN 0017AA	LX	\$68,000.00	==
CLIN 0017AA	LY	\$264,807,424.52	
CLIN 0017AA	MB	\$375,000.00	
CLIN 0017AA	MC	\$2,283,481.00	
CLIN 0017AA	MD	\$8,573.00	_

CLIN 0017AA	ME	\$0.00	
CLIN 0017AA	MF	\$269,411,505.00	
CLIN 0017AA	MH	\$213,390.00	
CLIN 0017AA	MJ	\$858,495.00	
CLIN 0017AA	MK	\$56,076.00	
CLIN 0017AA	ML	\$116,044.00	
CLIN 0017AA	MM	\$1,618,600.00	
CLIN 0017AA	MN	\$2,573,000.00	
CLIN 0017AA	MP	\$250,000.00	
CLIN 0017AA	MQ	\$691,421.00	
CLIN 0017AA	MR	\$39,921,199.75	
		- -	1,562,717,007.27
		-	
CLIN 0017AB	KL	118,250.00	
		=	118,250.00
CLIN 0017AC	BZ	190,000.00	
		-	190,000.00
CLIN 0017AD	KN	0.00	
CLIN 0017AD	KS	0.00 _	
		-	0.00
CLIN 0017AE	LL	173,798.00	
			173,798.00
CLIN 0017AH	KT	173,798.00 _	
		==	173,798.00
CLIN 0020AA	KN	0.00	
CLIN 0020AA	KQ	26,660.00	
		-	26,660.00
CLIN 0021AA	KW	0.00 _	
			. 0.00
CLIN 0021AB	KV	0.00	
CLIN 0021AB	LB	0.00	
CLIN 0021AB	KX	0.00	
CLIN 0021AB	KY	0.00 _	0.00
		=	0.00

CLIN 0021AC	KZ	0.00	
CLIN 0021AC	LA	0.00	0.00
CLIN 0022	KW	0.00	
		-	0.00
CLIN 0023	KX	60,000.00	
CLIN 0023	KY	25,000.00	
CLIN 0023	KV	65,000.00	
CLIN 0023	LB	12,500.00	
CLIN 0023	LF	10,000.00	
CLIN 0023	LR	\$125,000.00	
			297,500.00
CLIN 0024	LA	13,508.00	
CLIN 0024	LG	62,000.00	
CLIN 0024	KZ	25,000.00	
CLIN 0024	KW	20,000.00	
CLIN 0024	LP	83,200.00	
			203,708.00
CLIN 0025	LE	1,173,850.00	
CLIN 0025	LM	1,080,404.00	
CLIN 0025	MA	0.00	
			2,254,254.00
CLIN 0026	LN	630,061.00	
			630,061.00
CLIN 0027	LZ	1,751,384.00	
		<u></u> -	1,751,384.00
CLIN 0028	LM	329,972.00	
CLIN 0028	MA	2,982,442.00	
CLIN 0028	MG	6,262,095.00	
			9,574,509.00

(End of Summary of Changes)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			ID CODE	PAGE	F PAGES		
AMENDMENT OF SOLICITA	A I JUN/MUDIF	ICATION OF CONTRACT		v		1	11
AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4 REQUISITION/PURCHASE REQ. NO		ł	5. PROJECT N	iO.(Ifappli	cable)
00246	13-Dec-2011						ļ
ISSUED BY CODE	W9113M	7. ADMINISTERED BY (Ifother than item 6)		COI	DE S2205	A	
USASMDC/ARSTRAT	<u> </u>	DCMA RAYTHEON 50 APPLE HILL DRIVE			<u> </u>		
SMDC-RDC		M/S T2FR2					
PO BOX 1500 HUNTSVILLE AL 35807-3801		TEWKSBURY MA 01876					
							}
. NAME AND ADDRESS OF CONTRACTOR	(No., Street, County, S	State and Zip Code)	9,	A. AMENDM	ENT OF SOL	ICITAT	ION NO.
RAYTHEON COMPANY 350 LOWELL ST			\bot				
ANDOVER MA 01810-4400			9	3. DATED (S	EE ITEM 11)	
		}	-	A. MOD. OF	CONTRACT	ODDE	NO
		ļ	X D	ASG60-98-C	-0001 KAC	OKDE	CNO.
		İ	10	B. DATED	SEE ITEM	3)	
ODE 05716	FACILITY COD	DE .	X 3	0-Jan-1998			
11.		PPLIES TO AMENDMENTS OF SOLIC	CITAT	IONS			
The above numbered solicitation is amended as set fort	h in Item 14. The hour and	date specified for receipt of Offer	is	extended,	is not exten	ded.	
Offer must acknowledge receipt of this amendment price	or to the hour and date snec	lifed in the solicitation or as amended by one of t	he follo:	wing methods:			
(a) By completing Items 8 and 15, and returning	-	it; (b) By acknowledging receipt of this amendme		-	er submitted;		
or (c) By separate letter or telegram which includes a n					то ве		ĺ
RECEIVED AT THE PLACE DESIGNATED FOR TH REJECTION OF YOUR OFFER. If by virtue of this su					***		
provided each telegramor letter makes reference to the	•	, ,			itti,		}
2. ACCOUNTING AND APPROPRIATION DA	ATA (If required)						
See Schedule							
	M APPLIES ONLY T	O MODIFICATIONS OF CONTRACTS	VORD	ERS			
		T/ORDER NO. AS DESCRIBED IN ITE					
A. THIS CHANGE ORDER IS ISSUED PURSO CONTRACT ORDER NO. IN ITEM 10A.	UANT TO: (Specify a	uthority) THE CHANGES SET FORTH	IN IT	EM 14 ARE N	MADE IN TH	E	
B. THE ABOVE NUMBERED CONTRACT/O	SODED IS MODIFIED	TO DESCRIPTION ADMINISTRATIO	TE CTT	ANCTE (
office, appropriation date, etc.) SET FORT					as changes in	paying	
C. THIS SUPPLEMENTAL AGREEMENT IS		·					
<u> </u>							
D. OTHER (Specify type of modification and					* ****		ļ
UNILATERAL: FAR 52.243-2, Changes, and		· · · · · · · · · · · · · · · · · · ·		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			
E. IMPORTANT: Contractor X is not,	is required to sig	n this document and return	copie	s to the issuin	g office.		1
4. DESCRIPTION OF AMENDMENT/MODIF	ICATION (Organized	by UCF section headings, including solic	itation	/contract subj	ect matter		
where feasible.)				_			
Modification Control Number:	IL FNS Statement of 10/s	ode (COM), dated 30 Contambou 2014			Cuetom		(b)(6)
To issue a change order in accordance with analyses, to conduct a feasibility assessment							(2)(2)
Arialyses, to conduct a reasibility assessmen	it, develop top-level a	gottums, and provide an estimate or s	OI (W G	o impierne na	in the	(b)	(3)(A)
Surveillance System (SuS) and provide a pre	liminary design. The	contractor shall also provide three (3) t	echnic	cal reviews a			&Title 10
(1) month after effective date of modification.						si (*/)	130 (a)
review that presents the preliminary design.		nount for this effort is \$1,996,000. Any	brob	osal for equit	able adjustm	ent Sec	130 (a)
should be submitted no later than 13 January	2012.						}
		34 104 hamada & ada ada ada ada ada ada ada ada ad		1 : 6-11 6 J			
except as provided herein, all terms and conditions of the d						r prine\	
5A. NAME AND TITLE OF SIGNER (Type or	print)	16A. NAME AND TITLE OF CO	NIKA	CI ING OFFI	CEK (I Abe o	(punt)	(b)(6)
			_				
5B. CONTRACTOR/OFFEROR	15C. DATE SIGNEI	16P THEFT OF AMERICA	UCA		1160	DATE	
Jo. CONTINICT ONOFFEROR	INC. DATE SIGNED				1,00	· wat ti	(h)(6)
	-		~		13	-Dec-20	,(b)(6) (
(Signature of person authorized to sign)		(Signature of Contracting Off	ricer)				
EXCEPTION TO SF 30	3	10-105-04		ST A	NDARD FO	RM 30 (1	Rev 10-83)

APPROVED BY OIRM 11-84

002419

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

(4)(ط)

(b)(4)

(b) L4

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

1. SECTION A - SOLICITATION/CONTRACT FORM

The total cost of this contract was increased by \$1,996,000.00 from \$1,813,743,439.00 to \$1,815,739,439.00.

2. SECTION B - SUPPLIES OR SERVICES AND PRICES

SUBCLIN 0017AA

The target cost has increased by \$100 from \$10

The total cost of this line item has increased by \$1,996,000.00 from \$1,575,994,992.00 to \$1,577,990,992.00.

This includes an increase in target cost of the cost of the cost and a increase in facilities capital cost of money, and an increase in target fee of the cost of target cost less facilities capital cost of money.

B-17. INCENTIVE FEE FOR SUBCLIN 0017AA/CLIN 0018 (SEE H-19):

In accordance with FAR 52.216-7, entitled "Allowable Cost and Payments", and FAR 52.216-10, entitled "Incentive Fee", the total amount for reimbursement of cost and fee for performance under SubCLIN 0017AA/CLIN 0018 are set forth below:

Target Cost
Target Fee

Incentive Arrangement: Maximum Fee:
Minimum Fee:

(Share Ratio: Government/Contractor)

Underrun: The amount by which the total allowable cost is less than the target cost until maximum fee is attained.

Overrun: Ove

FAR 52.216-10, INCENTIVE, paragraph (e)(1), is stated as follows:

- (e) Fee Payable.
- (1) The fee payable under this contract shall be the target fee increased betweents for every dollar that the total allowable cost is less than the target cost or decreased between this for every dollar that the total allowable cost exceeds the target cost. In no event shall the fee be greater than the contract of the target cost.
- B-18. TARGET COST, TARGET FEE, MINIMUM INCENTIVE FEE, MAXIMUM INCENTIVE FEE, AND INCENTIVE ARRANGEMENT FOR SUBCLIN 0017AA/CLIN 0018:

SUBCLIN 0017AA - (Two SDD JLENS Systems)

(b)41 Target cost: **b**(4) Target fee: (b)(4) Minimum incentive fee: (b)(4) Maximum incentive fee: \$1,577,990,992

3. SECTION G - CONTRACT ADMINISTRATION DATA

Total target cost and target fee:

Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by \$700,000.00 from \$1,788,055,198.63 to \$1,788,755,198.63.

SUBCLIN 0017AA:

MS: 21 2 2040 5L 5L68 P172419E555L 255Y 4M2J712700 S01021 4M2J712700/24MJLE/4M5 was increased by \$700,000.00 from \$0.00 to \$700,000.00

The contract ACRN MS has been added.

Target Cost, Target Fee, and Total for the above increase of \$700,000 is distributed as follows and includes an (b)(4)f cost and increase in target cost of of facilities capital cost of money) and an increase (b)(4)in target incentive fee of which is of target cost less facilities capital cost of money. Target Cost Target Fee (b) (4) Total \$700,000

ź

IMPLEMENTATION OF AND EXPLANATION OF THE RELATIONSHIP OF THE LIMITATION OF FUNDS (LOF) CLAUSE TO FEE OBLIGATIONS, subparagraph c., is revised to read as follows:

SUBCLIN 0017AA: THIS **CUMULATIVE** PRIOR **MODIFICATION** TOTAL* (1) Amount Required for Full Funding, Including Fee: \$1,575,994,992 \$1,996,000 \$ 1,577,990,992 (2) Amount Allotted Under the LOF Clause for Payment of Costs: (৮) (પ (3) Amount Separately Obligated for Payment of Fee: COXY (4) Total Amount Allotted and Obligated: \$1,562,717,007.27 \$ 700,000 \$1,563,417,007.27 (5) Net Amount Required for Full Funding \$ 13,277,984.73 \$1,296,000 \$ 14,573,984.73

- * These figures take into consideration the negotiated total value of SubCLIN 0017AA (This does not include SubCLIN 17AH)
- 4. SECTION H SPECIAL CONTRACT REQUIREMENTS is revised as follows:

Paragraph H-19, <u>INCENTIVE FEE STRUCTURE AND PAYMENT FOR CLIN 0017</u>, <u>SYSTEM DEVELOPMENT AND DEMONSTRATION (SDD)</u>, subparagraph c., is revised as follows:

a. General.

SubCLIN 0017AA, System Development and Demonstration (SDD), is a cost-plus-incentive-fee (CPIF) Line Item with cost and schedule incentives as described below. Paragraph H-19(b) applies only to the Cost Incentive and Paragraph H-19(c) applies only to the Schedule Incentive. The contract price amount of \$1,577,990,992 includes a target cost of which includes the property of facilities capital cost of money) and a target incentive fee of \$1000000000000000000000000000000000000	(b)(4) (6)(4)
b. Cost Incentive.	
(1) The target fee payable under SubCLIN 0017AA is the target cost less facilities capital cost of money an amount equal to	(b)(4) (b)(4)
(2) The maximum fee payable under SubCLIN 0017AA is not of the target cost less facilities capital cost of money (an amount equal to	(4)(4)
(3) The minimum fee payable under SubCLIN 0017AA is of the target cost less facilities capital cost of money an amount equal to	(b)(4)
(4) Fee will be adjusted for actual cost that is less than or more than the target cost stated above using a share ratio of Contractor for actual costs less than the target cost, and a ratio of Contractor for actual costs greater than the target cost range applied according to Paragraph H-19(c)(1).	ው)ረ <i>4</i> 6)(4)
(5) Nothing stated in this clause shall take precedence over the clause 52.216-10 - Incentive Fee contained in this contract.	
c. Schedule and Performance Incentive.	
(1) A maximum "flat zone" will be established at the target cost value of with the conduct of milestones below. The "flat zone" over which the contractor will earn target fee is for eligible costs from	(F)(A)
once the program milestones set forth below are conducted.	(b)(4)
(a) Consider the Conduct of the maximum benefit of the "flat zone", earned by the conduct of the SDD System Functional Review NLT 2nd Quarter, Fiscal Year 2007. (It is hereby acknowledged by the government that Raytheon completed the requirement for this flat zone and earned the "Flat Zone" schedule incentive of	(4 <u>)</u>
Final determination of incentive fee payment utilizing the "Flat Zone" amount will be made at the	(b)(4)
conclusion of the contract.	(b)(b)
(b) 3 The first warmen benefit of the "flat zone", earned by the conduct of SDD Orbit Critical	(PX4)
Design review NLT 2nd Quarter, Fiscal Year 2009. (It is hereby acknowledged by the government that Raytheon completed the requirement for this flat zone and earned the "Flat Zone" schedule incentive of the determination of incentive fee payment utilizing the "Flat Zone" amount will be made at the conclusion of the	66764
contract. Reference letter, dated 12 January 2009,	(P)(A)
(c) 6 of the maximum benefit of the "flat zone", earned by the conduct of the Developmental Test 1 (DT-1) in accordance with the criteria set forth in Section J attachment entitled Flat Zone Performance Criteria for JLENS SDD Contract, Section H-19(c), dated 11/1/11.	(b)(4) (b)(4)
(d) Section of the maximum benefit of the "flat zone", earned by the conduct of the Electromagnetic Environmental Effects (E3) Testing in accordance with the criteria set forth in Section J attachment entitled Flat Zone	(b)(4) ७√

(Y (W)

Performance Criteria for JLENS SDD Contract, Section H-19(c), dated 11/1/11.

- (e) Section of the maximum benefit of the "flat zone", earned by the conduct of the Integrated Fire Control Event in accordance with the criteria set forth in Section J attachment entitled Flat Zone Performance Criteria for JLENS SDD Contract, Section H-19(c), dated 11/1/11.
- (f) of the maximum benefit of the "flat zone", earned by the conduct of the Functional Configuration Audit (FCA) #1 in accordance with the criteria set forth in Section J attachment entitled Flat Zone Performance Criteria for JLENS SDD Contract, Section H-19(c), dated 11/1/11.
- (3) For Earned Value and cost reporting purposes, the target cost value of which will be used.
 - d. Changes issued under FAR 52.243-2, Changes Cost Reimbursement

In the event of a change issued under FAR 52.243-2, Changes - Cost Reimbursement, it is agreed that changes to the performance and schedule incentive may be considered a part of the equitable adjustment. In the event that any Options to CLIN 0017 are added and exercised, the incentive fee for cost and schedule/performance applicable to the Option will be incorporated in accordance with the incentive fee structure of this provision.

5. The following is an update to Modification P00245 showing a summary of funding by ACRN through Modification P00246:

ACRN	<u>FUNDING</u>	
AA		440,100.00
AB		2,298,235.00
AC		17,832,987.00
AD		0.00
ΑE	•	7,500,000.00
AF		3,300,000.00
AG	1 to 1	17,192,400.00
AH		700,000.00
AJ		200,000.00
AK		85,000.00
AL	1,	45,000.00
AM		17,045,000.00
AN		5,800.00
AP		20,779,000.00
AQ		105,000.00
AR		35,000.00
AS		0.00
ΑT		6,984,678.52
AU		7,970,000.00
AV		0.00
AW,		100,000.00
AX		3,396,000.00
AY		550,000.00
AZ		19,412,000.00
BA ·	. •	24,527,878.00
BB		146,000.00

BC		72,000.00
BD		85,000.00
BE	•	100,000.00
BF		100,000.00
BG		1,975,321.00
BH	į , 3	8,018,908.00
BJ	•	7,896,673.34
BK		260,000.00
BL		0.00
BM		125,000.00
BN		103,000.00
BP	1	0,199,288.50
BU	·	350,000.00
BV		9,000.00
BW	8	4,896,852.00
BX	· ·	1,146,000.00
BY		3,880,000.00
BZ		190,000.00
KL		118,250.00
KM	10	2,793,000.00
KN	17	0.00
		92,811.00
KQ		•
KR		0.00
KS	20	0.00
KT	.58	6,377,998.00
KU		2,203,183.00
KV		65,000.00
KW		20,000.00
KX		60,000.00
KY		25,000.00
KZ		25,000.00
LA		13,508.00
LB		12,500.00
LC		200,000.00
LD		7,943,648.00
LE		1,173,850.00
LF		10,000.00
LG		62,000.00
LH		400,000.00
LJ		7,476.00
LK	\$28	1,575,897.00
LL		\$173,798.00
LM	\$	1,410,376.00
LN		\$630,061.00
LP		\$83,200.00
LQ		\$235,566.00
LR		\$125,000.00
LS	\$	6,069,616.00
LT	•	\$530,377.00
LU	\$	9,100,000.00
~-0	Ψ	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

LV	\$1,957,265.00
LW	\$255,567.00
LX	\$68,000.00
LY	\$264,807,424.52
LZ	\$1,751,384.00
MA	\$2,982,442.00
MB	\$375,000.00
MC	\$2,283,481.00
MD	\$8,573.00
ME	\$0.00
MF	\$269,411,505.00
MG	\$6,262,095.00
MH	\$213,390.00
MJ	\$858,495.00
MK	\$56,076.00
ML	\$116,044.00
MM	\$1,618,600.00
MN	\$2,573,000.00
MP	\$250,000.00
MQ	\$691,421.00
MR	\$39,921,199.75
MS	\$700,000.00

6. The following is an update to Modification P00245 showing a summary of funding by CLIN by ACRN through Modification P00246:

<u>CLIN</u>	<u>ACRN</u>	FUNDING AMT	CLIN TOTAL
CLIN 0001	A A	440,100.00	
	AA	•	
CLIN 0001	AD	0.00	
			440,100.00
CLIN 0003	AB	2,298,235.00	
CLIN 0003	AC	17,832,987.00	
CLIN 0003	AD	0.00	
CLIN 0003	AE	7,500,000.00	
CLIN 0003	AF	3,300,000.00	
CLIN 0003	AG	17,192,400.00	
CLIN 0003	AH	700,000.00	
CLIN 0003	AM	17,045,000.00	
CLIN 0003	AN	5,800.00	
CLIN 0003	AP	20,779,000.00	
CLIN 0003	AS	0.00	
CLIN 0003	AT	6,984,678.52	
CLIN 0003	AW	100,000.00	
CLIN 0003	AY	550,000.00	
			94,288,100.52

CLIN 0005	BA	24,527,878.00	
CLIN 0005	BB	146,000.00	
CLIN 0005	BC	72,000.00	
CLIN 0005	BD	85,000.00	
CLIN 0005	BE	100,000.00	
CLIN 0005	BF	100,000.00	
CLIN 0005	BG	1,975,321.00	
CLIN 0005	BH	38,018,908.00	
CLIN 0005	BL	0.00	
CLIN 0005	BZ	0.00	
CL111 0003	<u>DL</u>	V.00	65 025 107 00
			65,025,107.00
GT DT 000E 1 1			
CLIN 0007AA	BP	10,199,288.50	
		,	10,199,288.50
CLIN 0009AA	AQ	45,106.00	
CLIN 0009AA	AV	0.00	
CLIN 0009AA	BK	256,545.00	
CLIN 0009AA	BM	125,000.00	
CLIN 0009AA	BN	21,315.00	
			447,966.00
CLIN 0009AB	AJ	200,000.00	
CLIN 0009AB	AK	85,000.00	
CLIN 0009AB	AL	45,000.00	
CLIN 0009AB	AQ	59,894.00	
CLIN 0009AB	AR	35,000.00	
CLIN 0009AB	BK	3,455.00	
CLIN 0009AB	BN	81,685.00	
CLIN 0009AB	BU	350,000.00	
CLIN 0009AB	BV	9,000.00	
CLIN 0007AB		7,000.00	869,034.00
		<u></u>	009,034.00
OT 10 10010	ATT	7 070 000 00	
CLIN 0013	AU	7,970,000.00	
CLIN 0013	AX	3,396,000.00	
CLIN 0013	AY	0.00	
CLIN 0013	AZ	19,412,000.00	
CLIN 0013	BJ	7,896,673.34	
			38,674,673.34
CLIN 0017	$\mathbf{B}\mathbf{W}$	0.00	
CLIN 0017	KM	0.00	
		===	0.00
CLIN 0017AA	BY	3,880,000.00	
CLIN 0017AA	BX	1,146,000.00	
CLIN 0017AA	BW	84,896,852.00	

CLIN 0017AA	BZ	0.00
CLIN 0017AA	KM	192,793,000.00
CLIN 0017AA	KN	0.00
CLIN 0017AA	KQ	66,151.00
CLIN 0017AA	KS	0.00
CLIN 0017AA	KT	386,204,200.00
CLIN 0017AA	KU	2,203,183.00
CLIN 0017AA CLIN 0017AA	KY LC	0.00 200,000.00
CLIN 0017AA	LD	7,943,648.00
CLIN 0017AA	LE	0.00
CLIN 0017AA	LH	400,000.00
CLIN 0017AA	LJ	7,476.00
CLIN 0017AA	LK	281,575,897.00
CLIN 0017AA	LQ	235,566.00
CLIN 0017AA	LS	6,069,616.00
CLIN 0017AA	LT	530,377.00
CLIN 0017AA	LU	\$9,100,000.00
CLIN 0017AA	LV	\$1,957,265.00
CLIN 0017AA	LW	\$255,567.00
CLIN 0017AA	LX	\$68,000.00
CLIN 0017AA	LY	\$264,807,424.52
CLIN 0017AA	MB	\$375,000.00
CLIN 0017AA	MC	\$2,283,481.00
CLIN 0017AA	MD	\$8,573.00
CLIN 0017AA	ME	\$0.00
CLIN 0017AA	MF	\$269,411,505.00
CLIN 0017AA	MH	\$213,390.00
CLIN 0017AA	MJ	\$858,495.00
CLIN 0017AA	MK	\$56,076.00
CLIN 0017AA	ML	\$116,044.00
CLIN 0017AA	MM	\$1,618,600.00
CLIN 0017AA	MN	\$2,573,000.00
CLIN 0017AA	MP	\$250,000.00
CLIN 0017AA	MQ	\$691,421.00
CLIN 0017AA	MR	\$39,921,199.75
CLIN 0017AA	MS	\$700,000.00
		1,563,417,007.27
OI DI OO! #AD	7/1	110.250.00
CLIN 0017AB	KL	118,250.00
		110,230.00

CLIN 0017AC	BZ	190,000.00	
		-	190,000.00
CLIN 0017AD	KN	0.00	
CLIN 0017AD	KS	0.00	
			0.00
CLIN 0017AE	LL	173,798.00	
CLIN 0017AE	DL.	173,796.00	173,798.00
CLIN 0017AH	KT	173,798.00	
			173,798.00
CLIN 0020AA	KN	0.00	
CLIN 0020AA	KQ	26,660.00	
		-	26,660.00
CLIN 0021AA	KW	0.00	
			0.00
GI DI COOL I D	****		
CLIN 0021AB	KV	0.00	
CLIN 0021AB CLIN 0021AB	LB	0.00 0.00	
CLIN 0021AB	KX KY	0.00	
CEIN 0021AB	K I	0.00	0.00
GI DI 2021 A C	W.7		
CLIN 0021AC CLIN 0021AC	KZ LA	0.00 0.00	
CLIN 0021AC	LA	0.00	0.00
CLIN 0022	KW	0.00	
CLIN 0022	K.W	0.00	0.00
CLIN 0023	KX	60,000.00	
CLIN 0023 CLIN 0023	KY KY	25,000.00	
CLIN 0023	KV	65,000.00	
CLIN 0023	LB	12,500.00	
CLIN 0023	LF	10,000.00	
CLIN 0023	LR	\$125,000.00	
			297,500.00
CLIN 0024	LA	13,508.00	
CLIN 0024 CLIN 0024	LG	62,000.00	
CLIN 0024 CLIN 0024	KZ	25,000.00	
CLIN 0024	KW	20,000.00	
CLIN 0024	LP	83,200.00	
CLIM VOZT		03,200.00	

			203,708.00
CLIN 0025	LE	1,173,850.00	
CLIN 0025	LM	1,080,404.00	
CLIN 0025	MA	0.00	
			2,254,254.00
CLIN 0026	LN	630,061.00	
			630,061.00
CLIN 0027	LZ	1,751,384.00	
			1,751,384.00
CLIN 0028	LM	329,972.00	
CLIN 0028	MA ·	2,982,442.00	
CLIN 0028	MG	6,262,095.00	
		· ·	9,574,509.00

(End of Summary of Changes)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				LID CODE	PAGE OF	PAGES	
AMENDING OF SOCIOTION		TOTAL OF CONTRACT	V		1	14	
AMENDMENT/MODIFICATION NO.	3 EFFECTIVE DATE	4 REQUISITION/PURCHASE REQ. NO.		5. PROJECT	NO.(Ifapplicat	ole)	
0247	13-Dec-2011	ec-2011					
ASMDC/ARSTRAT DC-RDC BOX 1500 NTSVILLE AL 35807-3801 7. ADMINISTERED BY (If other than item DC MA RAYTHEON 50 APPLE HILL DRIVE M/S T2FR2 TEVMKSBURY MA 01878			m6) CODE S2205A				
NAME AND ADDRESS OF CONTRACTOR RAYTHEON COMPANY 350 LOWELL ST. ANDOVER MA 01810-4400	State and Zip Code)	9A. AMENDM 9B. DATED (S			N NO.		
			X 10A. MOD. OI DASG60-98-O		·		
DE 05716	FACILITY COD)E	X 30-Jan-1998	(SEE ITEM	15)		
		PPLIES TO AMENDMENTS OF SOLI	CITATIONS				
The above numbered solicitation is amended as set for Offer must acknowledge receipt of this amendment pri (a) By completing Items 8 and 15, and returning or (c) By separate letter or telegram which includes a RECEIVED ATTHE PLACE DESIGNATED FOR TREJECTION OF YOUR OFFER. If by virtue of this a provided each telegram or letter makes reference to the	or to the hour and date spec copies of the amendmen reference to the solicitation of HE RECEIPT OF OFFERS I mendment you desire to char	issed in the solicitation or as amended by one of this; (b) By acknowledging receipt of this amendment and amendment numbers. FAILURE OF YOUR APPRIOR TO THE HOUR AND DATE SPECIFIES ange an offer already submitted, such change may	nt on each copy of the o ACKNOWLEDGMENT OMAY RESULTIN oe made by telegramor lo	то ве	August 1		
ACCOUNTING AND APPROPRIATION D See Schedule						······································	
	EM APPLIES ONLY T	O MODIFICATIONS OF CONTRACT	SYORDERS.				
IT MOD	IFIES THE CONTRAC	CT/ORDER NO. AS DESCRIBED IN IT	EM 14.				
A, THIS CHANCE ORDER IS ISSUED PURS CONTRACT ORDER NO. IN ITEM 10A.		uthority) THE CHANGES SET FORTH	IN ITEM 14 ARE	MADE IN TI	HE 		
B. THE ABOVE NUMBERED CONTRACT/0 office, appropriation date, etc.) SET FOR.	TH IN ITEM 14, PUR	SUANT TO THE AUTHORITY OF FA		as changes ir	n paying		
C. THIS SUPPLEMENTAL AGREEMENT IS	S ENTERED INTO PU	RSUANT TO AUTHORITY OF:	•				
D. OTHER (Specify type of modification and UNILATERAL: FAR 52.243-2, Changes, and	l authority) I FAR 52.232-22, Limit	ation o Funds			7		
IMPORTANT: Contractor X is not,	is required to sig	n this document and return	copies to the issuir	ng office.			
DESCRIPTION OF AMENDMENT/MODIF where feasible.) Modification Control Number:	ICATION (Organized	by UCF section headings, including solic	itation/contract sub	ject matter	(b))(6)	
o issue a change order in accordance with Development, to incorporate the attached Te effort is \$16,289,524. Any request for equiti	st Spares List for supp	port of the current contract requiremen	its. The not-to-exc		are		
ept as provided herein, all terms and conditions of the d A. NAME AND TITLE OF SIGNER (Type of		PA or 10A, as heretofore changed, remains unchanged. NAME AND TITLE OF CO			or print) (L	o)(6)	
B. CONTRACTOR/OFFEROR	15C. DATE SIGNEI	D 16B INTER			C. DATE SIG	GNED (b)	
(Signature of person authorized to sign)	-	(Signature of Contracting Of	ficer)	'	J-1000-2011	(b)(
CEPTION TO SF 30	- 3	0-105-04		ANDARD FO	RM 30 (Res	v. 10-83	

EXCEPTION TO SF 30 APPROVED BY OIRM 11-84

002430

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

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

1. SECTION A - SOLICITATION/CONTRACT FORM

The total cost of this contract was increased by \$16,289,524.00 from \$1,815,739,439.00 to \$1,832,028,963.00.

2. SECTION B - SUPPLIES OR SERVICES AND PRICES

SUBCLIN 0017AA

The target cost has increased by \$ from \$ from \$ to \$ to \$ The target profit/fee has increased by \$ 16,289,524.00 from \$1,577,990,992.00 to \$1,594,280,516.00.

(b)(4)

(b)(4)

This includes an increase in target cost of consisting of a supply c

B-17. INCENTIVE FEE FOR SUBCLIN 0017AA/CLIN 0018 (SEE H-19):

In accordance with FAR 52.216-7, entitled "Allowable Cost and Payments", and FAR 52.216-10, entitled "Incentive Fee", the total amount for reimbursement of cost and fee for performance under SubCLIN 0017AA/CLIN 0018 are set forth below:

Target Cost
Target Fee

Incentive Arrangement: Maximum Fee:
Minimum Fee:

(4)(4) (4)(4)

(Share Ratio: Government/Contractor)

(P)(A)

Underrun: The amount by which the total allowable cost is less than the target cost until maximum fee is attained.

(b) (4)

Overrun: for the amount by which the total allowable cost exceeds the target cost until minimum fee is attained.

(b)(4)

FAR 52.216-10, INCENTIVE, paragraph (e)(1), is stated as follows:

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

(b)(4)

B-18. TARGET COST, TARGET FEE, MINIMUM INCENTIVE FEE, MAXIMUM INCENTIVE FEE, AND INCENTIVE ARRANGEMENT FOR SUBCLIN 0017AA/CLIN 0018:

SUBCLIN 0017AA - (Two SDD JLENS Systems)

a. Target cost:		(મુલ્ ર
b. Target fee:		(मृर्स)
c. Minimum incentive fee:		<i>৬</i>)८५১
d. Maximum incentive fee:		
e. Total target cost and target fee:	\$1,594,280,516	૯)(4)

3. SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by \$16,289,524.00 from \$1,788,755,198.63 to \$1,805,044,722.63.

SUBCLIN 0017AA:

MT: 21 2 2040 5L 5L68 P172419E555L 255Y 4M2J712600 S01021 4M2J712600/24MJLE/4M5 was increased by \$16,289,524.00 from \$0.00 to \$16,289,524.00

The contract ACRN MS has been added.

Target Cost, Target Fee, and Total for the above increase of section is distributed as follows and includes an increase in target cost of section of cost and section of facilities capital cost of money) and an increase in target incentive fee of section
Target Cost
Target Fee
Total

Total

Target Fee
Total

(৮) (૯) પ્રાપ્ય

IMPLEMENTATION OF AND EXPLANATION OF THE RELATIONSHIP OF THE LIMITATION OF FUNDS (LOF) CLAUSE TO FEE OBLIGATIONS, subparagraph c., is revised to read as follows:

SUE	BCLIN 0017AA:	<u>-</u>	THIS	CUMULATIVE	
		<u>PRIOR</u>	MODIFICATION	TOTAL*	
(1)	Amount Required for Full Funding,				
	Including Fee:	\$1,577,990,992	\$16,289,524	\$ 1,594,280,516	
(2)	Amount Allotted Under the LOF Clause				
	for Payment of Costs:				\bigcirc
(3)	Amount Separately Obligated for				U SC (
	Payment of Fee:				6)14
(4)	Total Amount Allotted and Obligated:	\$1,563,417,007.27	\$16,289,524	\$1,579,706,531.27	♥ /G
(5)	Net Amount Required for Full Funding	\$ 14,573,984.73	\$ 0	\$ 14,573,984.73	

- * These figures take into consideration the negotiated total value of SubCLIN 0017AA (This does not include SubCLIN 17AH)
- 4. SECTION H SPECIAL CONTRACT REQUIREMENTS is revised as follows:

Paragraph H-19, <u>INCENTIVE FEE STRUCTURE AND PAYMENT FOR CLIN 0017, SYSTEM DEVELOPMENT AND DEMONSTRATION (SDD)</u>, subparagraph c., is revised as follows:

a. General.

SubCLIN 0017AA, System Development and Demonstration (SDD), is a cost-plus-incentive-fee (CPIF) Line Item with cost and schedule incentives as described below. Paragraph H-19(b) applies only to the Cost Incentive and Paragraph H-19(c) applies only to the Schedule Incentive. The contract price amount of \$1,594,280,516 includes a target cost of which includes \$1,594,280,516 includes of cost and target incentive fee of \$1,594,280,516 includes of target cost less facilities capital cost of money.	(5 (4) (5 (4)
b. Cost Incentive.	
(1) The target fee payable under SubCLIN 0017AA is substituted of the target cost less facilities capital cost of money an amount equal to	(P) (F)
(2) The maximum fee payable under SubCLIN 0017AA is money an amount equal to \$ 100.000 an amount equal to \$ 100.000 and 100.0000 and 100.0000 and 100.0000 and 100	PXA PXA
(3) The minimum fee payable under SubCLIN 0017AA is the target cost less facilities capital cost of money amount equal to	(b)(4)
(4) Fee will be adjusted for actual cost that is less than or more than the target cost stated above using a share ratio of experiment / contractor for actual costs less than the target cost, and a ratio of experiment / contractor for actual costs greater than the target cost range applied according to Paragraph H-19(c)(1).	ω χι
(5) Nothing stated in this clause shall take precedence over the clause 52.216-10 - Incentive Fee contained in this contract.	
c. Schedule and Performance Incentive.	
(1) A maximum the "flat zone" will be established at the target cost value of the with the conduct of milestones below. The "flat zone" over which the contractor will earn target fee is for eligible costs from	(b)(1
to Section once the program milestones set forth below are conducted.	678
(a) fine of the maximum benefit of the "flat zone", earned by the conduct of the SDD System Functional Review NLT 2nd Quarter, Fiscal Year 2007. (It is hereby acknowledged by the government that Raytheon completed the requirement for this flat zone and earned the "Flat Zone" schedule incentive of	(d)
Final determination of incentive fee payment utilizing the "Flat Zone" amount will be made at the conclusion of the contract.	(b)(b)
(b) of the maximum benefit of the "flat zone", earned by the conduct of SDD Orbit Critical Design review NLT 2nd Quarter, Fiscal Year 2009. (It is hereby acknowledged by the government that Raytheon	HXA
completed the requirement for this flat zone and earned the "Flat Zone" schedule incentive of schedule incentive fee payment utilizing the "Flat Zone" amount will be made at the conclusion of the contract. Reference letter,	(P)(P)
	(b)(b) (b)(d)
(c) of the maximum benefit of the "flat zone", earned by the conduct of the Developmental Test 1 (DT-1) in accordance with the criteria set forth in Section J attachment entitled Flat Zone Performance Criteria for JLENS SDD Contract, Section H-19(c), dated 11/1/11.	(b)(4)
(d) Of the maximum benefit of the "flat zone", earned by the conduct of the Electromagnetic Environmental Effects (E3) Testing in accordance with the criteria set forth in Section J attachment entitled Flat Zone	(b)(4)(b)(4)

will be used.

Performance Criteria for JLENS SDD Contract, Section H-19(c), dated 11/1/11.

of the maximum benefit of the "flat zone", earned by the conduct of the Integrated Fire Control Event in accordance with the criteria set forth in Section J attachment entitled Flat Zone Performance Criteria for JLENS SDD Contract, Section H-19(c), dated 11/1/11.

(b)(4) പ്രി

% of the maximum benefit of the "flat zone", earned by the conduct of the Functional Configuration Audit (FCA) #1 in accordance with the criteria set forth in Section J attachment entitled Flat Zone Performance Criteria for JLENS SDD Contract, Section H-19(c), dated 11/1/11.

(b)(4) (b)(4)

(3) For Earned Value and cost reporting purposes, the target cost value of

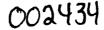
d. Changes issued under FAR 52.243-2, Changes - Cost Reimbursement

In the event of a change issued under FAR 52.243-2, Changes - Cost Reimbursement, it is agreed that changes to the performance and schedule incentive may be considered a part of the equitable adjustment. In the event that any Options to CLIN 0017 are added and exercised, the incentive fee for cost and schedule/performance applicable to the Option will be incorporated in accordance with the incentive fee structure of this provision.

SECTION J - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

The following has been revised to reflect an update to CLIN 0017, JLENS SDD Program Statement of Work and CLIN 0017, Contract Data Requirements List (DD Form 1423) and to delete CLIN 0017, Performance Incentive Fee Critiera/Evidence, undated and consisiting of eight (8) pages:

TITLE	DATE	# OF PAGES
Contract Security Classification Specification (DD Form 254), Revision 13 (Added per Modification P00235)	14 Apr 11	13
JLENS Software Source Code Specifically Negotiated License, License Number JLENS-SWLA-01 (Added per Modification P00166)	04 Sep 08	8
CLIN 0017: JLENS System Development and Demonstration (SDD) Program Statement of Work (Revised by Incorporating CSDR Plans dated 20 Febr 2007 in Appendix C per Modification P00136)	30 Nov 06 - Revised 20 Feb 07	37
JLENS System Development and Demonstration (SDD) Program Statement of Work (Added per Modification P00187)	Revised 06 Apr 09	38
JLENS System Development and Demonstration (SDD) Program Statement of Work, Revision 2 (Added per Modification P00207)	Revised 09 Mar 10	36
JLENS System Development and Demonstration (SDD) Program Statement of Work, Revision 3 (Added per Modification P00239)	Revised 01 Sep 11	36
JLENS System Development and Demonstration (SDD) Program Statement of Work	Revised 26 Sep 11	36



(Added per Modification P00240)

	March 08	1	(b)(3)(A)
Contract Data Requirements List (DD Form 1423) Exhibit A with Distribution List & Data Item Nos. B001 through B062	01 Dec 06	63	
(Replace Data Item Nos. B026 and B027, only Per Modification P00136)	Revised 05 Apr 07		
(Replace Data Item Nos. B048 and B049, only Per Modification P00143 & to add statement in Section A of Modification P00143)	Revised 24 Oct 07		
(Replace Data Item No. B033 only, per Modification P00161)	Revised 11 Jul 08	I	
Contract Data Requirements List (DD Form 1423) Exhibit A, Data Item Nos. B001 and B014 (Added per Modification P00187)	Revised 07 May 09	2	
Contract Data Requirements List (DD Form 1423) Exhibit A, Data Item Nos. B002 through B062 (less B014) (Added per Modification P00187)	Revised 20 Mar 09	60	
Contract Data Requirements List (DD Form 1423) Exhibit A, Data Item Nos. B001 and B014 (Added per Modification P00239)	Revised 30 Aug 11	2	

^{*}Added statement below to address weekends/Holidays: (In Mod P00143)

24 October 07

*Per a mutual agreement between Raytheon and JLENS Product Office all Contract Data Requirements List (CDRL's) (DD Form 1423) are due on the next business day after the required due date if the due date falls on Saturday, Sunday or a Government Holiday. In addition, for any CDRL with a requirement to resubmit within 10 days or less after receipt of comments, where Raytheon receives the comments on a Friday, the timeframe for resubmittal will begin on the next business day. Statement added in Mod P00143 on 24 Oct. 2007.

GFE/GFP/GFS List for SDD	28 Nov 06 2
Replaced with Rev. B List	15 Oct 07 6
**Add items below	Revised 22 Oct 07
For record-keeping purposes	
(Per Mod P00143)	
Replaced with Revision C List	09 Mar 09 12
(Per Modification P00183)	
Replaced with Revision D List	23 Feb 10 11
(Per Modification P00207)	

**Per the DCMA and Raytheon is authorized rent free use on a non-interference use of the equipment listed below for utilization on JLENS Fire Control Radar Prime Contract DASG60-98-C-0001 for the period from 19 April 2007 through 30 September 2011.

(b)(3)(A)



Hereby added in Mod P00148 for tracking purposes:

Originated in Basic Contract:

Government Furnished Equipment - Spiral 1 (Spiral 1 Equipment Transferred to Government

Contract DASG60-00-C-0001 DD Form 1149 (attached)

20 Jun 03 25 Mar 07* 1 List

(Revised 21 Nov 07)*

34 pages 34 pages

Ship to address:

(b)(6)

(b)(4)

*NOTE: Items 1-1060 transferred to Contract DASG60-00-C-0091 per revised GFE list dated 21 Nov 07. Items 1061 - 1116 GFE items retained on Contract DASG60-98-C-0001 for Spiral 2 per GFE list dated 25 Mar 07.

JLENS Performance Specification, MIS-PRF-55628, Revision A	27 Jun 08	136
(Added by reference per Modification P00168)		
Annex A to the JLENS Performance Specification, MIS-PRF-55628, Revision A	27 Jun 08	10
(Added by reference per Modification P00168)		
JLENS SDD DD250 Plan (Added per Modification P00207)	11 Dec 09	5
Engineering Change Proposal (ECP) MI-N3893, Revision 2, CDRL B039-005b	15 Nov 10	15
Engineering Change Proposal (ECP) MI-N3894, CDRL B039-006	18 Aug 10	16
Engineering Change Proposal (ECP) MI-N3895, CDRL B039-007	28 Sep 10	50
Engineering Change Proposal (ECP) JL1359 (Added per Modification P00240)	20 Jun 11	7
Flat Zone Performance Criteria for JLENS SDD Contract, Section H-19(c)	01 Nov 11	4
(Added per Modification P00242)		
Test Spares List (Added per Modification P00247)	Undated	8

CLINS 0023 and 00024 JLENS Simulation Support SOW dated 28 January 2008 Simulation Support Tasks (Added per Mod P00160)	28 January 2008	2	(b)(3)(A) (i)&Title 10 Sec 130 (a)(b)
<u>CLIN 0025</u>			
JLENS Integrated Fire Control Demonstration Program Statement of Work, Revision 5 (Added per Modification P00211)	14 Sep 09	3	
JLENS Integrated Fire Control Demonstration Program Program and Technical Clarification Description, incorporated herein by reference (Added per Modification P00211)	30 Mar 10	26	
Contract Data Requirements List (DD Form 1423) Exhibit B, Data Items Nos. B001 through B004, with Data Item Descriptions (Added per Modification P00165)	16 Oct 07	19	
Contract Data Requirements List (DD Form 1423), CLIN 0028, Exhibit B, Data Item Nos. B001 through B006 (Added per Modification P00211)	16 Jun 10	6	
CLIN 0027			
JLENS System Integration Lab (SIL) Equipment List (Added per Modification P00196)	Undated	6	
Revision to System Integration Lab (SIL) Equipment List (Added per Modification P00217)	02 Aug 10	6	

6. The following is an update to Modification P00246 showing a summary of funding by ACRN through Modification P00247:

<u>ACRN</u>	FUNDING	
AA		440,100.00
AB		2,298,235.00
AC		17,832,987.00
AD		0.00
AE		7,500,000.00
AF		3,300,000.00
AG		17,192,400.00
AH		700,000.00
AJ		200,000.00

AK	85,000.00
AL	45,000.00
AM	17,045,000.00
AN	5,800.00
AP	20,779,000.00
AQ	105,000.00
AR	35,000.00
AS	0.00
AT	6,984,678.52
AU	7,970,000.00
AV	0.00
AW	100,000.00
AX	3,396,000.00
AY	550,000.00
AZ	19,412,000.00
BA	24,527,878.00
BB	146,000.00
BC	72,000.00
BD	85,000.00
BE	100,000.00
BF	100,000.00
BG	1,975,321.00
BH	38,018,908.00
BJ	7,896,673.34
BK	260,000.00
BL	0.00
BM	125,000.00
BN	103,000.00
BP	10,199,288.50
BU	350,000.00
BV	9,000.00
BW	84,896,852.00
BX	1,146,000.00
BY	3,880,000.00
BZ	190,000.00
KL	118,250.00
KM	192,793,000.00
KN	0.00
KQ	92,811.00
KR	0.00
KS	0.00
KT	386,377,998.00
KU	2,203,183.00
KV	65,000.00
KW	20,000.00
KX	60,000.00
KY	25,000.00
KZ	25,000.00
LA	13,508.00
LB	12,500.00
·— -	,-,-

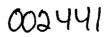
LC	200,000.00
LD	7,943,648.00
LE	1,173,850.00
LF	10,000.00
LG	62,000.00
LH	400,000.00
LJ	7,476.00
LK	\$281,575,897.00
LL	\$173,798.00
LM	\$1,410,376.00
LN	\$630,061.00
LP	\$83,200.00
LQ	\$235,566.00
LR	\$125,000.00
LS	\$6,069,616.00
LT	\$530,377.00
LU	\$9,100,000.00
LV	\$1,957,265.00
LW	\$255,567.00
LX	\$68,000.00
LY	\$264,807,424.52
LZ	\$1,751,384.00
MA	\$2,982,442.00
MB	\$375,000.00
MC	\$2,283,481.00
MD	\$8,573.00
ME	\$0.00
MF	\$269,411,505.00
MG	\$6,262,095.00
MH	\$213,390.00
MJ	\$858,495.00
MK	\$56,076.00
ML	\$116,044.00
MM	\$1,618,600.00
MN	\$2,573,000.00
MP	\$250,000.00
MQ	\$691,421.00
MR	\$39,921,199.75
MS	\$700,000.00
MT	\$16,289,524.00

7. The following is an update to Modification P00246 showing a summary of funding by CLIN by ACRN through Modification P00247:

CLIN	<u>ACRN</u>	<u>FUNDING AMT</u>	CLIN TOTAL
CLIN 0001	AA	440,100.00	
CLIN 0001	AD	0.00	

			440,100.00
CLIN 0003	AB	2,298,235.00	
CLIN 0003	AC	17,832,987.00	
CLIN 0003	AD	0.00	
CLIN 0003	AE	7,500,000.00	
CLIN 0003	AF	3,300,000.00	
CLIN 0003	AG	17,192,400.00	
CLIN 0003	AH	700,000.00	•
CLIN 0003	AM	17,045,000.00	
CLIN 0003	AN	5,800.00	
CLIN 0003	AP	20,779,000.00	
CLIN 0003	AS	0.00	
CLIN 0003	AT	6,984,678.52	
CLIN 0003	AW	100,000.00	
CLIN 0003	AY	550,000.00 _	
		-	94,288,100.52
CLIN 0005	BA	24,527,878.00	
CLIN 0005	BB	146,000.00	
CLIN 0005	BC	72,000.00	
CLIN 0005	BD	85,000.00	
CLIN 0005	BE	100,000.00	
CLIN 0005	BF	100,000.00	
CLIN 0005	BG	1,975,321.00	
CLIN 0005	BH	38,018,908.00	
CLIN 0005	BL	0.00	
CLIN 0005	BZ	0.00	
CEIN 0005	DL	0.00 _	65,025,107.00
		=	05,025,107.00
CLIN 0007AA	BP	10,199,288.50	
		_	10.100.000.00
		=	10,199,288.50
CLIN 0009AA	AQ	45,106.00	
CLIN 0009AA	ΑV	0.00	
CLIN 0009AA	BK	256,545.00	
CLIN 0009AA	BM	125,000.00	
CLIN 0009AA	BN	21,315.00	
		·	447,966.00
		=	
CLIN 0009AB	AJ	200,000.00	
CLIN 0009AB	AK	85,000.00	
CLIN 0009AB	AL	45,000.00	
CLIN 0009AB	AQ	59,894.00	
CLIN 0009AB	AR	35,000.00	
CLIN 0009AB	BK	3,455.00	
CLIN 0009AB	BN	81,685.00	

CLIN 0009AB	BU	350,000.00	
CLIN 0009AB	BV	. 9,000.00	
			869,034.00
GI DI 0012	ATT	7.070.000.00	
CLIN 0013	AU	7,970,000.00	
CLIN 0013	AX	3,396,000.00	
CLIN 0013	AY AZ	0.00	
CLIN 0013	AZ BJ	19,412,000.00	
CLIN 0013	ΒJ	7,896,673.34	38,674,673.34
CLIN 0017	BW	0.00	
CLIN 0017	KM	0.00	
			0.00
CLIN 0017AA	ву	3,880,000.00	
CLIN 0017AA	BX	1,146,000.00	
CLIN 0017AA	BW	84,896,852.00	
CLIN 0017AA	BZ	0.00	
CLIN 0017AA	KM	192,793,000.00	
CLIN 0017AA	KN	0.00	
CLIN 0017AA	KQ	66,151.00	
CLIN 0017AA	KS	0.00	
CLIN 0017AA	KT	386,204,200.00	
CLIN 0017AA	KU	2,203,183.00	
CLIN 0017AA	KY	0.00	
CLIN 0017AA	LC	200,000.00	
CLIN 0017AA	LD	7,943,648.00	
CLIN 0017AA	LE	0.00	
CLIN 0017AA	LH	400,000.00	
CLIN 0017AA	LJ	7,476.00	
CLIN 0017AA	LK	281,575,897.00	
CLIN 0017AA	LQ	235,566.00	
CLIN 0017AA	LS	6,069,616.00	
CLIN 0017AA	LT	530,377.00	
CLIN 0017AA	LU	\$9,100,000.00	
CLIN 0017AA	LV	\$1,957,265.00	
CLIN 0017AA	LW	\$255,567.00	A STATE OF THE STA
CLIN 0017AA	LX	\$68,000.00	
CLIN 0017AA	LY	\$264,807,424.52	
CLIN 0017AA	MB	\$375,000.00	
CLIN 0017AA	MC	\$2,283,481.00	
CLIN 0017AA	MD	\$8,573.00	
CLIN 0017AA	ME	\$0.00	
CLIN 0017AA	MF	\$269,411,505.00	
CLIN 0017AA	MH	\$213,390.00	

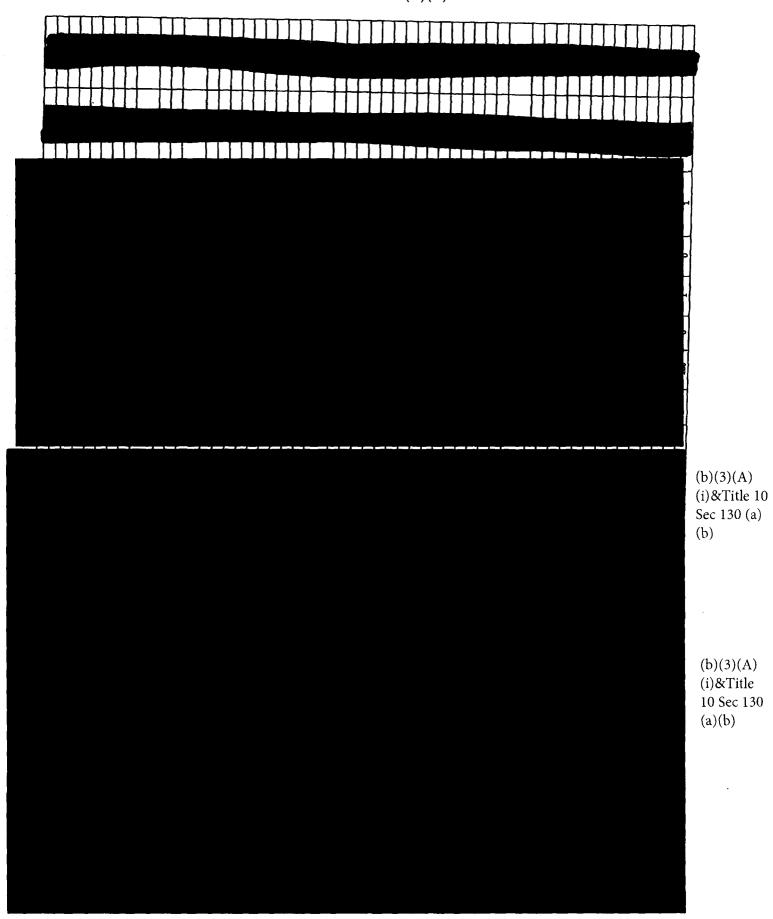


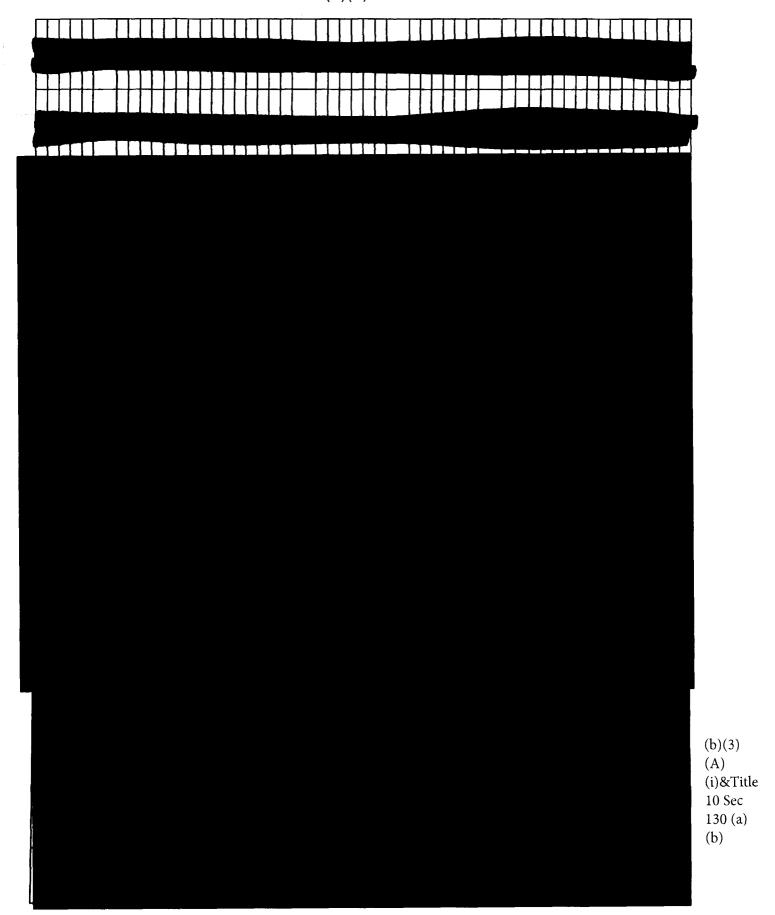
	\$858,495.00	MJ	CLIN 0017AA
	\$56,076.00	MK	CLIN 0017AA
	\$116,044.00	ML	CLIN 0017AA
	\$1,618,600.00	MM	CLIN 0017AA
	\$2,573,000.00	MN	CLIN 0017AA
	\$250,000.00	MP	CLIN 0017AA
	\$691,421.00	MQ	CLIN 0017AA
	\$39,921,199.75	MR	CLIN 0017AA
	\$700,000.00	MS	CLIN 0017AA
	\$16,289,524.00	MT	CLIN 0017AA
1,579,706,531.27	_		
	=		
	118,250.00	KL	CLIN 0017AB
118,250.00	· —		
	_		
100 000 00	190,000.00 _	BZ	CLIN 0017AC
190,000.00	-		
	0.00	KN	CLIN 0017AD
	0.00 _	KS	CLIN 0017AD
0.00	=		
	150 500 00		OT D 1 00 1 E 1 D
173,798.00	173,798.00	LL	CLIN 0017AE
173,790.00			
	173,798.00	KT	CLIN 0017AH
173,798.00	-		
	0.00 26,660.00	KN KQ	CLIN 0020AA CLIN 0020AA
26,660.00	20,000.00	KŲ	CLIN 0020AA
20,000.00			
	0.00	KW	CLIN 0021AA
0.00			
	==		
	0.00	KV	CLIN 0021AB
	0.00	LB	CLIN 0021AB
	0.00	KX	CLIN 0021AB
	0.00 _	KY	CLIN 0021AB
0.00	-		

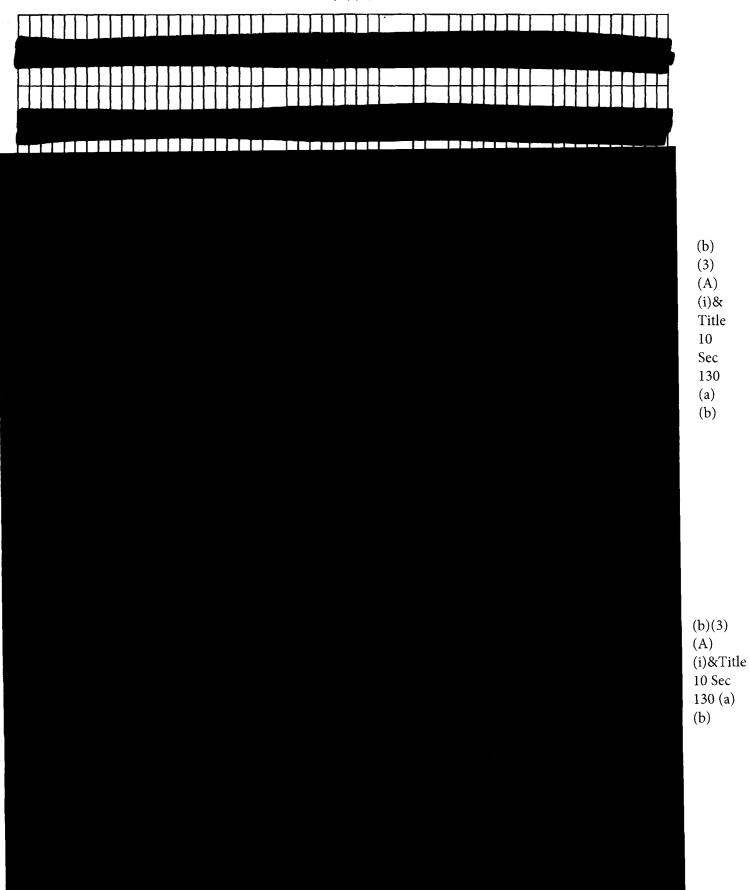
CLIN 0021AC	KZ	0.00	
CLIN 0021AC	LA	0.00	0.00
		- 1100 mg	0.00
CLIN 0022	KW	0.00	
			0.00
CLIN 0023	KX	60,000.00	
CLIN 0023	KY	25,000.00	
CLIN 0023	KV	65,000.00	
CLIN 0023	LB	12,500.00	
CLIN 0023	LF	10,000.00	
CLIN 0023	LR	\$125,000.00	
		Inches	297,500.00
CLIN 0024	LA	13,508.00	
CLIN 0024	LG	62,000.00	
CLIN 0024	KZ	25,000.00	
CLIN 0024	KW	20,000.00	
CLIN 0024	LP	83,200.00	
			203,708.00
CLIN 0025	LE	1,173,850.00	
CLIN 0025	LM	1,080,404.00	
CLIN 0025	MA	0.00	
		·	2,254,254.00
CLIN 0026	LN	630,061.00	
CEII4 0020	LIA	050,001.00	630,061.00
CLIN 0027	LZ	1,751,384.00	
			1,751,384.00
CLIN 0028	LM	329,972.00	
CLIN 0028	MA	2,982,442.00	
CLIN 0028	MG	6,262,095.00	
			9,574,509.00

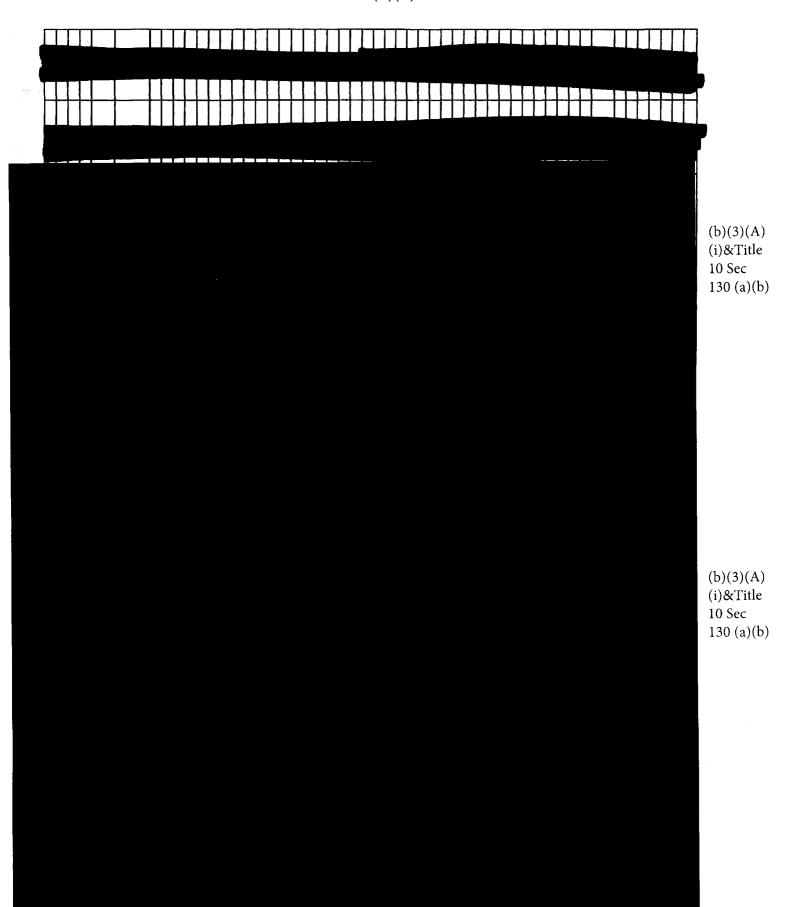
(End of Summary of Changes)

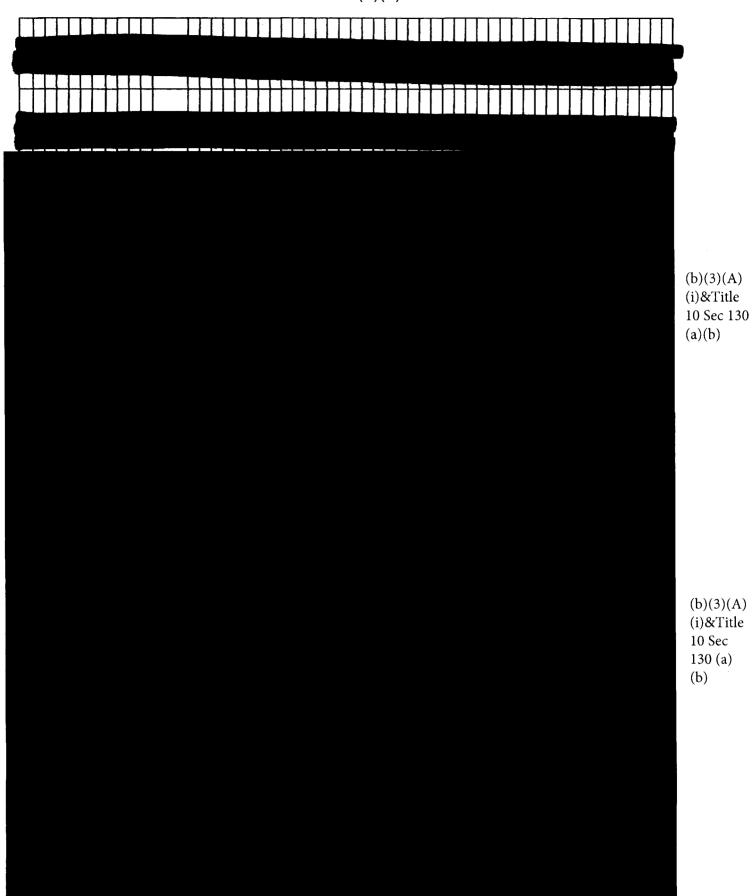
(b)(4) resentative mated Unit Cost (b)(3)(A)(i)&Title 10 Sec 130 (a)(b) (b)(3)(A)(i)&Title 10 Sec 130 (a)(b)



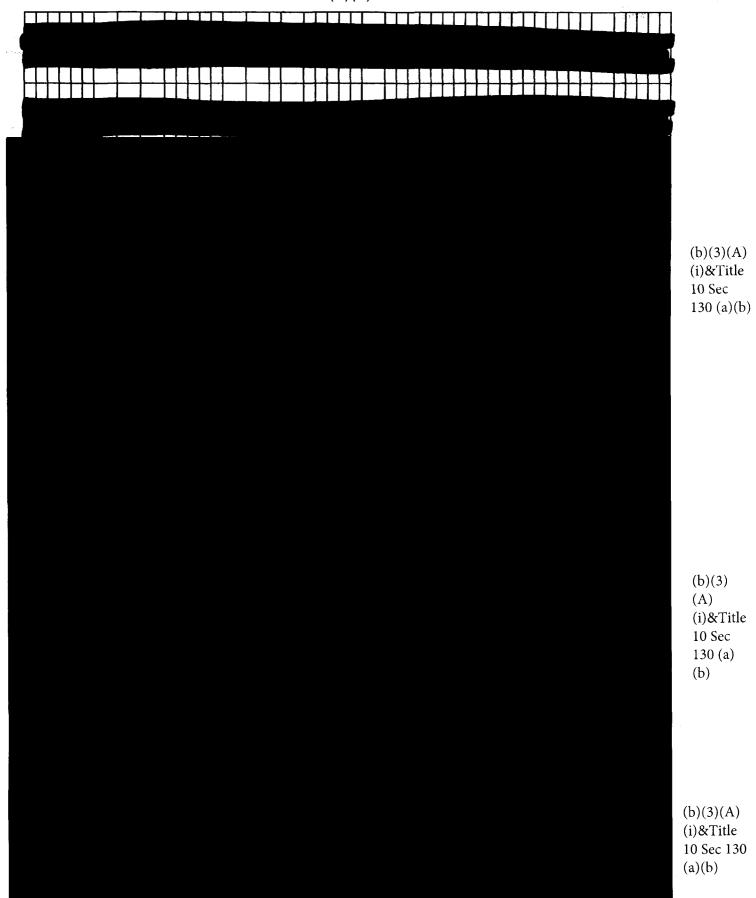








(b)(3)(A)(i)&Title 10 Sec 130 (a)



John Co.





(b)(3)(A)(i)&Title 10 Sec 130 (a)(b)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE OF PAGES
AMENDMENT OF SOLICIT	WI TOWNIONE	ICATION OF CONTRACT	V		1 9
AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4 REQUISITION/PURCHASE REQ. NO.		5. PROJECT	NO ((fapplicable)
00248	14-Dec-2011				
ISSUED BY CODE	W9113M	7 ADMINISTERED BY (Ifother than item 6)	cc	DE S220	5A
USASMDC/ARSTRAT		DCMA RAYTHEON 50 APPLE HILL DRIVE			
SMDC-RDC		M/ST2FR2			
PO BOX 1500 HUNTSVILLE AL 35807-3801		TEWKSBURY MA 01876			
NAME AND ADDRESS OF CONTRACTOR	(No., Street, County,	State and Zip Code)	9A. AMENDN	MENT OF SO	LICITATION NO.
RAYTHEON COMPANY 350 LOWELL ST			OR DATED (PER ITEM 1	1\
ANDOVER MA 01810-4400			9B. DATED (SEE ILEMI	1)
			X 10A MOD O	F CONTRAC	CT/ORDER NO.
			A DASG60-98-0	÷0001	
			10B. DATED	(SEE ITEM	13)
ODE 05716	IFACILITY COL		X 30-Jan-1998		
		PPLIES TO AMENDMENTS OF SOLI			
The above numbered solicitation is amended as set for	th in Item 14. The hour and	date specified for receipt of Offer	is extended,	is not exte	nded.
Offer must acknowledge receipt of this amendment pri	•		-		
(a) By completing Items 8 and 15, and returning or (c) By separate letter or telegram which includes a	Parameter .	nt; (b) By acknowledging receipt of this amendms and amendment numbers. FAILURE OF YOUR A			
RECEIVED AT THE PLACE DESIGNATED FOR T					
REJECTION OF YOUR OFFER. If by virtue of this a provided each telegramor letter makes reference to the	-		- •	etter,	
		ment, and is received prior to the opening from a	and date specified.		
2. ACCOUNTING AND APPROPRIATION D See Schedule	A I A (II required)				
	EM ADDITES ON V	O MODIFICATIONS OF CONTRACT	E/ODDEBC		
		CT/ORDER NO. AS DESCRIBED IN [T]			
A. THIS CHANGE ORDER IS ISSUED PURS				MADE IN T	HE
CONTRACT ORDER NO. IN ITEM 10A.		,			
D. THE ADOME NUMBER CONTRACTA	ODDED IS MODIFIED	TO DEEL FOR THE ADMINISTRATIO	E CHANCES (
B. THE ABOVE NUMBERED CONTRACT/ office, appropriation date, etc.) SET FOR				as changes i	n paying
C. THIS SUPPLEMENTAL AGREEMENT I					
			····		
D. OTHER (Specify type of modification and UNILATERAL: FAR 52,232-22, "Limitation o					
IMPORTANT: Contractor X is not,		n this document and return	copies to the issuit	office	
<u> </u>	<u> </u>				
 DESCRIPTION OF AMENDMENT/MODIF where feasible.) 	FICATION (Organized	by UCF section headings, including solic	itation/contract sub	ject matter	(I- \ (O)
Modification Control Number:					(b)(6)
To increase incremental funding in the amour	nt of \$7,864,499 to fully	y fund CLIN 0028.			
man to a sum ideal francis all to sure and see distinct a Salar	da a	24 104 h		4.45.4	
SA. NAME AND TITLE OF SIGNER (Type o		16A. NAME AND TITLE OF CO			or print)
A. Arama and TITLE OF BIOMER (Type o	· pimej	TOP INMIN AND THE PROPERTY	Tane I MOOFF	ionic (1 ype	(b)(6)
					(2)(0)
5B. CONTRACTOR/OFFEROR	15C. DATE SIGNEI	D 16B UNITED		160	C. DATE SIGNED
		BY			(b)(6)
(Signature of person authorized to sign)	-	(Signature of Contracting Of	ficer)	1·	4-Dec-2011 '
EXCEPTION TO SF 30		30-105-04	~	ANDARD FO	ORM 30 (Rev. 10-8
APPROVED BY OIRM 11-84		2000		scribed by G	

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

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

1. SECTION B - SUPPLIES OR SERVICES AND PRICES

SUBCLIN 002804 is added as follows:

ITEM NO 002804 SUPPLIES/SERVICES

QUANTITY

UNIT

UNIT PRICE

AMOUNT

Funding for CLIN 0028

CPIF

FOB: Destination

TOTAL TGT COST + FEE \$7,864,499.00

ACRN MU

\$7,864,499.00

2. SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by \$7,864,499.00 from \$1,805,044,722.63 to \$1,812,909,221.63.

SUBCLIN 002804:

Funding on SUBCLIN 002804 is initiated as follows:

ACRN: MU

Acctng Data: 21 2 2040 5L 5L68 P172419E555L 255Y 4M2J712500 S01021 4M2J712500/24MJLE/4M5

Increase: \$7,864,499.00

Total: \$7,864,499.00

Target Cost, Target Fee, and Total for the above increase of \$7,864,499 is distributed as follows and includes a target cost of cost and cost of facilities capital cost of money) and a target incentive fee of \$2000 which is cost of target cost less facilities capital cost of money.

Target Cost Target Fee Total

\$7,864,499

(b)(4) (b)(4)

(P)(A)

CLI	N 0028 :		T	HIS	CUM	ULATIVE	
		PRIOR	MODIF	ICATION	<u>T</u>	OTAL	
(1)	Amount Required for Full Funding, Including Fee:	\$17,439,008	\$	0	\$17,43	9,008	
(2)	Amount Allotted Under the LOF Clause for Payment of Costs:						6H)
(3)	Amount Separately Obligated for Payment of Fee:						(b)(4)
(4)	Total Amount Allotted and Obligated:	\$ 9,574,509	\$7,864	,499	\$17,43	9,008	
(5)	Net Amount Required for Full Funding	\$ 7,864,499	(\$7,864	,499)	\$	0	

3. The following is an update to Modification P00247 showing a summary of funding by ACRN through Modification P00248:

<u>ACRN</u>	FUNDING	
A A		440 100 00
AA		440,100.00
AB		2,298,235.00
AC		17,832,987.00
AD		0.00
A E		7,500,000.00
AF		3,300,000.00
AG		17,192,400.00
AH		700,000.00
AJ		200,000.00
AK		85,000.00
AL		45,000.00
AM		17,045,000.00
AN		5,800.00
AP		20,779,000.00
AQ		105,000.00
AR		35,000.00
AS		0.00
AT		6,984,678.52
AU		7,970,000.00
AV		0.00
AW		100,000.00
AX	•	3,396,000.00
AY		550,000.00
AZ		19,412,000.00

BA	24,527,878.00
BB	146,000.00
BC	72,000.00
BD	85,000.00
BE	100,000.00
BF	100,000.00
BG	1,975,321.00
ВН	38,018,908.00
BJ	7,896,673.34
BK	260,000.00
BL	0.00
BM	125,000.00
BN	103,000.00
BP	10,199,288.50
BU	350,000.00
BV	9,000.00
BW	84,896,852.00
BX	1,146,000.00
BY	3,880,000.00
BZ	190,000.00
KL	118,250.00
KM	192,793,000.00
KN	0.00
KQ	92,811.00
KR	0.00
KS	0.00
KT	386,377,998.00
KU	2,203,183.00
KV	65,000.00
KW	20,000.00
KX	60,000.00
KY	25,000.00
KZ	25,000.00
LA	13,508.00
LB	12,500.00
LC	200,000.00
LD	7,943,648.00
LE	1,173,850.00
LF	10,000.00
LG	62,000.00
LH	400,000.00
LJ	7,476.00
LK	\$281,575,897.00
LL	\$173,798.00
LM	\$1,410,376.00
LN	\$630,061.00
LP	\$83,200.00
LQ	\$235,566.00
LR	\$125,000.00
LS	\$6,069,616.00
20	ψυ,υυν,υτυ.υυ

LT	\$530,377.00
LU	\$9,100,000.00
LV	\$1,957,265.00
LW	\$255,567.00
LX	\$68,000.00
LY	
	\$264,807,424.52
LZ	\$1,751,384.00
MA	\$2,982,442.00
MB	\$375,000.00
MC	\$2,283,481.00
MD	\$8,573.00
ME	\$0.00
MF	\$269,411,505.00
MG	\$6,262,095.00
MH	\$213,390.00
MJ	\$858,495.00
MK	\$56,076.00
ML	\$116,044.00
MM	\$1,618,600.00
MN	\$2,573,000.00
MP	\$250,000.00
MQ	\$691,421.00
MR	\$39,921,199.75
MS	\$700,000.00
MT	\$16,289,524.00
MU	\$7,864,499.00
IATO	a/, 004,499.00

4. The following is an update to Modification P00247 showing a summary of funding by CLIN by ACRN through Modification P00248:

CLIN	<u>ACRN</u>	FUNDING AMT	CLIN TOTAL
CLIN 0001	AA	440,100.00	
CLIN 0001	AD	0.00	
			440,100.00
CLIN 0003	AB	2,298,235.00	
CLIN 0003	AC	17,832,987.00	
CLIN 0003	AD	0.00	
CLIN 0003	AE	7,500,000.00	
CLIN 0003	AF	3,300,000.00	
CLIN 0003	AG	17,192,400.00	
CLIN 0003	AH	700,000.00	
CLIN 0003	AM	17,045,000.00	
CLIN 0003	AN	5,800.00	
CLIN 0003	AP	20,779,000.00	
CLIN 0003	AS	0.00	
CLIN 0003	AT	6,984,678.52	

CLIN 0003	AW	100,000.00	
CLIN 0003	AY	550,000.00	
		,	94,288,100.52
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
CLIN 0005	ВА	24,527,878.00	
CLIN 0005	BB	146,000.00	
		· · · · · · · · · · · · · · · · · · ·	
CLIN 0005	BC	72,000.00	
CLIN 0005	BD	85,000.00	
CLIN 0005	BE	100,000.00	
CLIN 0005	BF	100,000.00	
CLIN 0005	BG	1,975,321.00	
CLIN 0005	BH	38,018,908.00	
	BL	* -	
CLIN 0005		0.00	
CLIN 0005	BZ	0.00	
		=	65,025,107.00
CLIN 0007AA	ВР	10,199,288.50	
		, ., ., .,	
			10,199,288.50
		=	
CLIN 0009AA	AQ	45,106.00	
CLIN 0009AA	ΑV	0.00	
CLIN 0009AA	BK	256,545.00	
CLIN 0009AA	BM	125,000.00	
CLIN 0009AA	BN	21,315.00	447.066.00
			447,966.00
CLIN 0009AB	AT	200 000 00	
	AJ	200,000.00	
CLIN 0009AB	AK	85,000.00	
CLIN 0009AB	AL	45,000.00	
CLIN 0009AB	AQ	59,894.00	
CLIN 0009AB	AR	35,000.00	
CLIN 0009AB	BK	3,455.00	
CLIN 0009AB	BN	81,685.00	
CLIN 0009AB	BU	350,000.00	
CLIN 0009AB	BV	9,000.00	
CEM VOOM E	В.		869,034.00
			
CLIN 0013	AU	7,970,000.00	
CLIN 0013	AX	3,396,000.00	
CLIN 0013	AY	0.00	
	AZ		
CLIN 0013		19,412,000.00	
CLIN 0013	BJ	7,896,673.34	
			38,674,673.34
CI DI 0017	DW	0.00	
CLIN 0017	BW	0.00	
CLIN 0017	KM	0.00	

			0.00
			0.00
CLIN 0017AA	BY	3,880,000.00	
CLIN 0017AA	BX	1,146,000.00	
CLIN 0017AA	\mathbf{BW}	84,896,852.00	
CLIN 0017AA	BZ	0.00	
CLIN 0017AA	KM	192,793,000.00	
CLIN 0017AA	KN	0.00	
CLIN 0017AA	KQ	66,151.00	
CLIN 0017AA	KS	0.00	
CLIN 0017AA	KT	386,204,200.00	
CLIN 0017AA	KU	2,203,183.00	
CLIN 0017AA	KY	0.00	
CLIN 0017AA	LC LD	200,000.00	
CLIN 0017AA CLIN 0017AA	LD LE	7,943,648.00 0.00	
CLIN 0017AA CLIN 0017AA	LH LH	400,000.00	
CLIN 0017AA	LJ	7,476.00	
CLIN 0017AA	LK	281,575,897.00	
CLIN 0017AA	LQ	235,566.00	
CLIN 0017AA	LS	6,069,616.00	
CLIN 0017AA	LT	530,377.00	
CLIN 0017AA	LU	\$9,100,000.00	
CLIN 0017AA	LV	\$1,957,265.00	
CLIN 0017AA	LW	\$255,567.00	
CLIN 0017AA	LX	\$68,000.00	
CLIN 0017AA	LY	\$264,807,424.52	
CLIN 0017AA	MB	\$375,000.00	
CLIN 0017AA	MC	\$2,283,481.00	
CLIN 0017AA	MD	\$8,573.00	
CLIN 0017AA	ME	\$0.00	
CLIN 0017AA	MF	\$269,411,505.00	
CLIN 0017AA	MH	\$213,390.00	
CLIN 0017AA	MJ	\$858,495.00	
CLIN 0017AA	MK	\$56,076.00	
CLIN 0017AA	ML	\$116,044.00	
CLIN 0017AA	MM	\$1,618,600.00	
CLIN 0017AA	MN	\$2,573,000.00	
CLIN 0017AA	MP	\$250,000.00	
CLIN 0017AA	MQ	\$691,421.00	
CLIN 0017AA	MR	\$39,921,199.75	
CLIN 0017AA	MS	\$700,000.00	
CLIN 0017AA	MT	\$16,289,524.00	
		1,579,706	531.27

CLIN 0017AB	KL	118,250.00	
		-	118,250.00
CLIN 0017AC	BZ	190,000.00	
			190,000.00
CLIN 0017AD	KN	0.00	
CLIN 0017AD	KS	0.00	0.00
		-	0.00
CLIN 0017AE	LL	173,798.00	150 500 00
			173,798.00
CLIN 0017AH	KT	173,798.00	172 700 00
		- R	173,798.00
CLIN 0020AA	KN	0.00	
CLIN 0020AA	KQ	26,660.00	26,660.00
			20,000.00
CLIN 0021AA	KW	0.00	
			0.00
CLIN 0021AB	KV	0.00	
CLIN 0021AB	LB	0.00	
CLIN 0021AB	KX	0.00	
CLIN 0021AB	KY	0.00	0.00
			-
CLIN 0021AC	KZ	0.00	
CLIN 0021AC	LA	0.00	0.00
			0.00
CLIN 0022	KW	0.00	
		-	0.00
CLIN 0023	KX	60,000.00	
CLIN 0023	KY	25,000.00	
CLIN 0023	KV	65,000.00	
CLIN 0023	LB	12,500.00	
CLIN 0023	LF	10,000.00	
CLIN 0023	LR	\$125,000.00	

		-	297,500.00
CL DI 0024	I.A	12 509 00	
CLIN 0024	~	13,508.00	
CLIN 0024	LG	62,000.00	
CLIN 0024	KZ	25,000.00	
CLIN 0024	KW	20,000.00	
CLIN 0024	LP	83,200.00	
		===	203,708.00
CLIN 0025	LE	1,173,850.00	
CLIN 0025	ĽM	1,080,404.00	
CLIN 0025	MA	0.00	
			2,254,254.00
CLIN 0026	LN	630,061.00	
			630,061.00
CLIN 0027	LZ	1,751,384.00	
			1,751,384.00
CLIN 0028	LM	329,972.00	
CLIN 0028	MA	2,982,442.00	
CLIN 0028	MG	6,262,095.00	
CLIN 0028	MU	\$7,864,499	
CLIII VV20	WIO	Ψ/,001,17/	17,439,008.00

(End of Summary of Changes)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRAC			1. CON	I. CONTRACT ID CODE		PAGEO	F PAGES
AMENDMENT OF SOLICI	IATION/MODIC	ACATION OF CONTRACT		٧		1 [9
2. AMENDMENT/MODIFICATION NO	3, EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ NO.		T	5. PROJECTI	NO (Ifapplio	cable)
700249	16-Feb-2012						
6. ISSUED BY CODE	W9113M	7. ADMINISTERED BY (Ifother than item 6)		CODI	S2205	iA .	
USASMDC/ARSTRAT SMDC-RDC PO BOX 1500 HUNTSVILLE AL 35807-3801		DCMA RAYTHEON 50 APPLE HILL DRIVE M/S TZFRZ TEWKSBURY MA 01876					
8. NAME AND ADDRESS OF CONTRACTO	R (No. Street County	State and Zin Code)	9A. AMI	ENDME	NT OF SOI	JCITATI	ION NO.
RAYTHEON COMPANY	it (110., Scroot, County,	suite and zip code)					
350 LOWELL ST. ANDOVER MA 01810-4400		_			E ITEM 11		
			^ DASGEC)-98-C-0	ONTRAC 001 EE ITEM		NO.
CODE 05716	FACILITY COI	DE	X 30-Jan-	•	ee Heni	13)	
		APPLIES TO AMENDMENTS OF SOLIC			·	·····	
The above numbered solicitation is amended as set	forth in Item 14. The hour and	date specified for receipt of Offer	is extended	, Г	is not exten	ded.	
REJECTION OF YOUR OFFER. Ifby virtue of this provided each telegramor letter makes reference to 12. ACCOUNTING AND APPROPRIATION See Schedule	the solicitation and this amen				er,		
	TEM APPLIES ONLY	TO MODIFICATIONS OF CONTRACTS	ORDERS.				
IT MC	DIFIES THE CONTRA	CT/ORDER NO. AS DESCRIBED IN ITE	M 14.				
A. THIS CHANGE ORDER IS ISSUED PUT CONTRACT ORDER NO. IN ITEM 10		authority) THE CHANGES SET FORTH	IN ITEM 14	ARE M	ade in th	Œ	
B. THE ABOVE NUMBERED CONTRAC		TO REFLECT THE ADMINISTRATIVESUANT TO THE AUTHORITY OF FAR		(such as	changes in	paying	
C. THIS SUPPLEMENT AL AGREEMENT			(43.103(B).				
		<u></u>					
D. OTHER (Specify type of modification a UNILATERAL: FAR 52.232-22, "Limitation							
E. IMPORTANT: Contractor X is not,		gn this document and return	copies to the	issuing	office.		
			-				
14. DESCRIPTION OF AMENDMENT/MOD where feasible.) Modification Control Number: To decrease incremental funding under Suit						g (t	o)(6)
under SubCLIN 0017AA, ACRN MV, in the			10 11101 0000			5	
Except as provided herein, all terms and conditions ofth	ne document referenced in fear	9A or 10A, as heretofine changed remains unchen	ged and in fell (nrce and a	ffect		
15A. NAME AND TITLE OF SIGNER (Type		16A. NAME AND TITLE OF COR				or print)	(1.)(0)
(• /				. 75		(b)(6)
	1						
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNE	D IGB I DUMB			60	DATE S	\ <i>/</i> @\
(6)	_				16	3-Feb-201	
(Signature of person authorized to sign) EXCEPTION TO SF 30		(Signature of Contracting Off	icer)	GT 4.5	IDA DE EC	DM 10 (F	lov. 10 023
APPROVED BY OIRM 11-84		002461		Presc	ribed by GS	A	Rev. 10-83)
		UUQ 7 41		FAR	(48 CFR) 5	3.243	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

SUBCLIN 0017AA:

MR: 21 1 2040 5L 5L68 P172419E555L 255Y 4M1JX10200 S01021 4M1JX10200/14MJLX/4M5 was decreased by \$39,921,199.75 from \$39,921,199.75 to \$0.00

MV: 21 2 2040 5L 5L68 P172419E555L 255Y 4M2J714100 S01021 4M2J714100/24MJLE/4M5 was increased by \$39,921,199.75 from \$0.00 to \$39,921,199.75

The contract ACRN MV has been added.

Target Cost, Target Fee, and Total for the above increase of \$39,921,199.75 is distributed as follows and includes an increase in target cost of money) and an increase in target incentive fee of money which is the facilities capital cost of money.

Target Cost		الرطا
Target Fee		
Total	\$39,921,199.75	७χŧ

IMPLEMENTATION OF AND EXPLANATION OF THE RELATIONSHIP OF THE LIMITATION OF FUNDS (LOF) CLAUSE TO FEE OBLIGATIONS, subparagraph c., is revised to read as follows:

SUE	BCLIN 0017AA:		Ţ	THIS	CUMULATIVE	
		<u>PRIOR</u>	MODIF	FICATION	TOTAL*	
(1)	Amount Required for Full Funding,					
	Including Fee:	\$1,594,280,516	\$	0	\$ 1,594,280,516	
(2)	Amount Allotted Under the LOF Clause					
	for Payment of Costs:		\$			fully)
(3)	Amount Separately Obligated for					
	Payment of Fee:					44ك
(4)	Total Amount Allotted and Obligated:	\$1,579,706,531.27	\$	0	\$1,579,706,531.27	
(5)	Net Amount Required for Full Funding	\$ 14,573,984.73	\$	0	\$ 14,573,984.73	

^{*} These figures take into consideration the negotiated total value of SubCLIN 0017AA (This does not include SubCLIN 17AH)

2. The following is an update to Modification P00248 showing a summary of funding by ACRN through Modification P00249:

<u>ACRN</u>	<u>FUNDING</u>	
AA		440,100.00
AB		2.298.235.00

AC	17,832,987.00
AD	0.00
AE	7,500,000.00
AF	3,300,000.00
AG	17,192,400.00
AH	700,000.00
AJ	200,000.00
AK	85,000.00
AL	45,000.00
AM	17,045,000.00
AN	5,800.00
AP	20,779,000.00
AQ	105,000.00
AR	35,000.00
AS	0,00
AT	6,984,678.52
AU	7,970,000.00
AV	0.00
AW	100,000.00
AX	3,396,000.00
AY	550,000.00
AZ	19,412,000.00
BA	24,527,878.00
BB	146,000.00
BC	72,000.00
BD	85,000.00
BE	100,000.00
BF	100,000.00
BG	1,975,321.00
ВН	38,018,908.00
BJ	7,896,673.34
ВК	260,000.00
BL	0.00
BM	125,000.00
BN	103,000.00
BP	10,199,288.50
BU	350,000.00
BV	9,000.00
BW	84,896,852.00
BX	1,146,000.00
BY	3,880,000.00
BZ	190,000.00
KL	118,250.00
KM	192,793,000.00
KN	0.00
KQ	92,811.00
KQ KR	0.00
KS	0.00
KT	386,377,998.00
KU	2,203,183.00

KV	65,000.00
KW	20,000.00
KX	60,000.00
KY	25,000.00
KZ	25,000.00
LA	13,508.00
LB	12,500.00
LC	200,000.00
LD	7,943,648.00
LE	1,173,850.00
LF	10,000.00
LG	62,000.00
LH	400,000.00
LJ	7,476.00
LK	\$281,575,897.00
LL	\$173,798.00
LM	\$1,410,376.00
LN	\$630,061.00
LP	\$83,200.00
LQ	\$235,566.00
LR	\$125,000.00
LS	\$6,069,616.00
LT	\$530,377.00
LU	\$9,100,000.00
LV	\$1,957,265.00
LW	\$255,567.00
LX	\$68,000.00
LY	\$264,807,424.52
LZ	\$1,751,384.00
MA	\$2,982,442.00
MB	\$375,000.00
MC	\$2,283,481.00
MD	\$8,573.00
ME	\$0.00
MF	\$269,411,505.00
MG	\$6,262,095.00
MH	\$213,390.00
MJ	\$858,495.00
MK	\$56,076.00
ML	\$116,044.00
MM	\$1,618,600.00
MN	\$2,573,000.00
MP	\$2,373,000.00
	\$691,421.00
MQ	•
MR	\$0.00
MS	\$700,000.00
MT	\$16,289,524.00
MU	\$7,864,499.00
MV	\$39,921,199.75

3. The following is an update to Modification P00248 showing a summary of funding by CLIN by ACRN through Modification P00249:

CLIN	<u>ACRN</u>	FUNDING AMT	CLIN TOTAL
CLIN 0001	AA	440,100.00	
CLIN 0001	AD	0.00	
			440,100.00
CLIN 0003	AB	2,298,235.00	
CLIN 0003	AC	17,832,987.00	
CLIN 0003	AD	0.00	
CLIN 0003	AE	7,500,000.00	
CLIN 0003	AF	3,300,000.00	
CLIN 0003	AG	17,192,400.00	
CLIN 0003	AH	700,000.00	
CLIN 0003	AM	17,045,000.00	
CLIN 0003	AN	5,800.00	
CLIN 0003	AP	20,779,000.00	
CLIN 0003	AS	0.00	
CLIN 0003	AT	6,984,678.52	
CLIN 0003	AW	100,000.00	
CLIN 0003	AY	550,000.00	
			94,288,100.52
CLIN 0005	ВА	24,527,878.00	
CLIN 0005	BB	146,000.00	
CLIN 0005	BC	72,000.00	
CLIN 0005	BD	85,000.00	
CLIN 0005	BE	100,000.00	
CLIN 0005	BF	100,000.00	
CLIN 0005	BG	1,975,321.00	
CLIN 0005	ВН	38,018,908.00	
CLIN 0005	BL	0.00	
CLIN 0005	BZ	0.00	
			65,025,107.00
CLIN 0007AA	ВР	10,199,288.50	
021110001121		10,133,200.00	
			10,199,288.50
CLIN 0009AA	AQ	45,106.00	
CLIN 0009AA	AV	0.00	
CLIN 0009AA	BK	256,545.00	
CLIN 0009AA	BM	125,000.00	
CLIN 0009AA	BN	21,315.00	
			447,966.00

CLIN 0009AB	AJ	200,000.00	
CLIN 0009AB	AK	85,000.00	
CLIN 0009AB	AL	45,000.00	
CLIN 0009AB	AQ	59,894.00	
CLIN 0009AB	AR	35,000.00	
CLIN 0009AB	BK	3,455.00	
CLIN 0009AB	BN	81,685.00	
CLIN 0009AB	BU	350,000.00	
CLIN 0009AB	BV	9,000.00	
		869,034.0	0
CLIN 0013	AU	7,970,000.00	
CLIN 0013	AX	3,396,000.00	
CLIN 0013	AY	0.00	
CLIN 0013	AZ	19,412,000.00	
CLIN 0013	BJ	7,896,673.34	
CLIN 0013	ъ,	38,674,673.3	_
		36,674,673.3	4
CT DY AA17	DIV	0.00	
CLIN 0017	BW	0.00	
CLIN 0017	KM	0.00	_
		0.0	0_
CLIN 0017AA	BY	3,880,000.00	
CLIN 0017AA	BX	1,146,000.00	
CLIN 0017AA	BW	84,896,852.00	
CLIN 0017AA	BZ	0.00	
CLIN 0017AA	KM	192,793,000.00	
CLIN 0017AA	KN	0.00	
CLIN 0017AA	KQ	66,151.00	
CLIN 0017AA	KS	0.00	
CLIN 0017AA	KT	386,204,200.00	
CLIN 0017AA	KU	2,203,183.00	
CLIN 0017AA	KY	0.00	
CLIN 0017AA	LC	200,000.00	
CLIN 0017AA	LD	7,943,648.00	
CLIN 0017AA	LE	0.00	
CLIN 0017AA	LH	400,000.00	
CLIN 0017AA	LJ	7,476.00	
CLIN 0017AA	LK	281,575,897.00	
CLIN 0017AA	LQ	235,566.00	
CLIN 0017AA	LS	6,069,616.00	
CLIN 0017AA	LT	530,377.00	
		\$9,100,000.00	
CLIN 0017AA	LU	• •	
CLIN 0017AA	LV	\$1,957,265.00	
CLIN 0017AA	LW	\$255,567.00	
CLIN 0017AA	LX	\$68,000.00	_

CLIN 0017AA	LY	\$264,807,424.52	
CLIN 0017AA	MB	\$375,000.00	
CLIN 0017AA	MC	\$2,283,481.00	
CLIN 0017AA	MD	\$8,573.00	
CLIN 0017AA	ME	\$0.00	
CLIN 0017AA	MF	\$269,411,505.00	
CLIN 0017AA	MH	\$213,390.00	
CLIN 0017AA	MJ	\$858,495.00	
CLIN 0017AA	MK.	\$56,076.00	
CLIN 0017AA	ML	\$116,044.00	
CLIN 0017AA	MM	\$1,618,600.00	
CLIN 0017AA	MN	\$2,573,000.00	
CLIN 0017AA	MP	\$250,000.00	
CLIN 0017AA	MQ	\$691,421.00	
CLIN 0017AA	MR	\$0.00	
CLIN 0017AA	MS	\$700,000.00	
CLIN 0017AA	MT	\$16,289,524.00	
CLIN 0017AA	MV	\$39,921,199.75	
		-	1,579,706,531.27
		-	
CLIN 0017AB	KL	118,250.00	
			118,250.00
		•	
CLIN 0017AC	BZ	190,000.00	
		=	190,000.00
GI DI AAIRA D	TPN I	2.22	
CLIN 0017AD CLIN 0017AD	KN KS	0.00 0.00	
CEIN OUT TAD	Kb	0.00	0.00
		=	
CLIN 0017AE	LL	173,798.00	
			173,798.00
GI DI 0015177		170 700 00	
CLIN 0017AH	KT	173,798.00	172 709 00
		***	173,798.00
CLIN 0020AA	KN	0.00	
CLIN 0020AA	KQ	26,660.00	
	`		

CLIN 0021AA	KW	0.00	
			0.00

CLIN 0021AB	KV	0.00	
CLIN 0021AB	LB	0.00	
CLIN 0021AB	KX	0.00	
CLIN 0021AB	KY	0.00	
		-	0.00
CLIN 0021AC	ΚZ	0.00	
CLIN 0021AC	LA	0.00	
			0.00
CLIN 0022	KW	0.00	
CLIN 0022	IV W	0.00	0.00
			0.00
CLIN 0023	КX	60,000.00	
CLIN 0023	KY	25,000.00	
CLIN 0023	KV	65,000.00	
CLIN 0023	LB	12,500.00	
CLIN 0023	LF	10,000.00	
CLIN 0023	LR	\$125,000.00	
			297,500.00
CLIN 0024	LA	13,508.00	
CLIN 0024	LG	62,000.00	
CLIN 0024	KZ	25,000.00	
CLIN 0024	KW	20,000.00	
CLIN 0024	LP	83,200.00	
			203,708.00
CLIN 0025	LE	1,173,850.00	
CLIN 0025	LM	1,080,404.00	
CLIN 0025	MA	0.00	
			2,254,254.00
CLIN 0026	LN	630,061.00	
CEM 0020	DI 1	050,001.00	630,061.00

CLIN 0027	LZ	1,751,384.00	
			1,751,384.00
CLIN 0028	LM	329,972.00	
CLIN 0028	MA	2,982,442.00	
CLIN 0028	MG	6,262,095.00	

DASG60-98-C-0001 P00249 Page 9 of 9

CLIN 0028	MU	\$7,864,499	
			17,439,008.00

(End of Summary of Changes

### PROZECT OF THE PLACE DESIGNATION FOR THE PLACE DESIGNATION OF CONTRACTORDER NO. ### PROZECT OF THE PLACE DESIGNATION OF THE PLACE DESIGNATION OF CONTRACTORDER SET OF OF THE PLACE DESIGNATION OF SOLICITATION OF SOLICITATION OF SOLICITATIONS OF CONTRACTORDER NO. ### PROZECT OF THE PLACE DESIGNATION OF THE PLACE DESIGNATION OF SOLICITATION OF SOLICITATIONS OF CONTRACTORDER NO. ### PROZECT OF THE PLACE DESIGNATION OF THE PLACE DESIGNATION OF SOLICITATIONS OF CONTRACTORDER NO. ### PROZECT OF THE PLACE DESIGNATION OF THE PLACE DESIGNATION OF SOLICITATIONS OF CONTRACTORDER NO. ### PROZECT OF THE PLACE DESIGNATION OF THE PLACE DESIGNATION OF SOLICITATIONS OF CONTRACTORDER NO. ### PROZECT OF THE PLACE DESIGNATION OF THE PLACE DESIGNATION OF SOLICITATIONS OF CONTRACTORDER NO. ### PROZECT OF THE PLACE DESIGNATION OF THE PLACE DESIGNATION OF SOLICITATIONS OF CONTRACTORDER NO. ### PROZECT OF THE PLACE DESIGNATION OF THE PLACE DESIGNA	AMENDMENT OF SOLICITA	ATION/MODIF	ICATION OF CONTRACT	1. CONTRAC		PAGE OF PAGES
DODE 05716 FACILITY CODE S2205A SAMENDMENT OF SOLICITATIONS Set time 2 per content of the set of the provided protein of the set of the s			LOCALIDA OF COMINACI	v		1 9
USABOLORASTRA: USABOL	MENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT	NO (Ifapplicable)
OOM. ROTHERN SOURCE OF THE STATE OF THE STAT	P00250	20-Mar-2012			ļ	
PSE DATED (SEE ITEM 11) See Soft	USASMDC/ARSTRAT SMDC-RDC PO BOX 1500	W9113M	DCMA RAYTHEON 50 APPLE HILL DRIVE M/S T2FR2	c	ODE S220 9	5 A
PROPERION COMPANY SOLUMENTS SOLUMENT	NAME AND ADDRESS OF CONTRACTOR	OT 6 4 6 4	[]	IOA AMENDA	AENT OF SOI	ICIT ATION NO
DOBE 05716 FACILITY CODE X 30-Jan-1998 11. THISTIEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS The above numbered solicitation is amended as set finth in Item 14. The hour and date appeciated in the solicitation or an amended by one of the Billowing arthod: (a) By completing limits as and 1, and acturating corper of the amendment (b) By activating are regist point in amendment spin to the hour and date appeciated in the solicitation or an amended by one of the Billowing arthod: (a) By completing limits a Bod 1, and acturating corper of the amendment (c) By activating are regist points and amendment on each open of the order of the property of the completing recist points anadoment on each open of the amendment of the property of the office substituted; or (c) By appared letter or designate which includes a reference to the solicitation and assessments. PALLURE OF YOUR ACKNOWLEDOMENTO BE RECEIVED ATTER PLACE DISTRINGTOR PLOTE PLOTE AND ATTER PLACE DISTRINGTOR PLOTE AND ATTER PLACE PLOTE PLOTE AND ATTER PLACE PLOTE PLOTE AND ATTER PLACE PLOTE	RAYTHEON COMPANY 350 LOWELL ST.	(No., Street, County, S	tate and Zip Code)			
In this titem only a provided beein, all terms and conditions of the document referenced in Item 24. In this titem only a provided beein, all terms and conditions of the above numbered solicitation is amended as set both in icen 14. The hour and date specifed in the solicitation or as amended by one of the Blowing earthod. Other must school-volder recipit of this amendeant prior to the how and date specifed in the solicitation or as amended by one of the Blowing earthod. Other must school-volder recipit of this amendeant prior to the how and date specifed in the solicitation or as amended by one of the Blowing earthod. Other must school-volder recipit of this amendeant prior to the how and date specifed in the solicitation or as amended by one of the Blowing earthod. Other must be provided been the specific of the solicitation and amendment earthers. FALLURE OF YOUR ACKNOWLEDGMENTTO BE RECEIVED ATTRIBETIES PLACE DISSINGANTED FOR THE RECEIPT OF OFFERS PROKE TO THE PLOKE NATION DATE PROPERTY IN IN RESECTION OF YOUR OFFER. (Thy virtue of this amendeant you desire to change an offer streetly substitute, such change oney be made by relegation release, provided each telegation of left makes reference to the solicitation and dish seasondment, and is received prior to the opening hour and date specified.				^ DASG60-98-	C-0001	
11. THISTEM ONLY APPLIES TO AMENDMENTS OF SOLUCTATIONS The above numbered solicitation is amoded as as the his licent. It has bour and date a specified for receipt of Offer Offer must change who deproyed protein) of this amoded as set as the his licent. It has bour and date a specified for receiption or as amoded by one of the following amount of the following a	20DE 06746	The GIL YEAR GOD			(SEE ITEM	13)
The above numbered solicitation is attended as set firth in Item 14. The bour and date specified for receipt of Office Other cast school-voldage receipt of Othics attended price to the hour and date specified in the solicitation or as attended by one ofthe following authods: (a) By completing lams B and 15, and creating price of the authority of (b) by separate letter or elegrate which includes a reference to the solicitation and authority of (b) by separate letter or elegrate which includes a reference to the obligation and authority of the price of the p				00 001 1000		
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B). C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: (D. OTHER (Specify type of modification and authority) UNILATERAL: FAR 52.23-22. "Limitation of Funds" E. IMPORTANT: Contractor is not, is required to sign this document and return copies to the issuing office. 4. DESCRIPTION OF AMENDMENT MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: (b)(6) To increase incremental funding for SubCLIN 0017AA in the amount of \$10,149,000. (b)(6) Increase incremental funding for SubCLIN 0017AA in the amount of \$10,149,000.	Offer must acknowledge receipt of this amendment pric (a) By completing Items 8 and 15, and returning or (c) By separate letter or telegram which includes a r RECEIVED ATTHE PLACE DESIGNATED FOR IT REJECTION OF YOUR OFFER. If by virtue of this as provided each telegram or letter makes reference to the 2. ACCOUNTING AND APPROPRIATION D. See Schedule 13. THIS ITH IT MOD. A. THIS CHANGE ORDER IS ISSUED PURSI	or to the hour and date speci- copies of the amendment eference to the solicitation at the RECEIPT OF OFFERS Formendment you desire to char solicitation and this amendaTA (If required) EM APPLIES ONLY TIFIES THE CONTRAC	fied in the solicitation or as amended by one of the t; (b) By acknowledging receipt of this amendment and amendment numbers. FAILURE OF YOUR A PRIOR TO THE HOUR AND DATE SPECIFIED age an offer already submitted, such change may be ment, and is received prior to the opening hour as CO MODIFICATIONS OF CONTRACTS OF CONTRACTS TO MODIFICATIONS OF CONTRACTS TO MODIFIC	e following methods: at on each copy of the CKNOWLEDGMEN MAY RESULT IN c made by telegramor ad date specified. /ORDERS. M 14.	offer submitted; TTO BE	
UNILATERAL: FAR 52.232-22, "Limitation of Funds" IMPORTANT: Contractor x is not, is required to sign this document and return copies to the issuing office. 4. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: (b)(6) It increase incremental funding for SubCLIN 0017AA in the amount of \$10,149,000. Comparison of the document referenced in Item 9A or 10A, as hereto fire changed, remains unchanged and in full force and effect. NAME AND TITLE OF SIGNER (Type or print) 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) (b) Contract of Contracting Officer) 16C. DATE SIGNED 16C. DA	office, appropriation date, etc.) SET FORT	THIN ITEM 14, PURS	SUANT TO THE AUTHORITY OF FAF		h as changes in	ı paying
. IMPORTANT: Contractor is not, is required to sign this document and return copies to the issuing office. 4. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: (b)(6) To increase incremental funding for SubCLIN 0017AA in the amount of \$10,149,000. **Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as hereto fire changed, remains unchanged and in full force and effect. NAME AND TITLE OF SIGNER (Type or print) 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) SB. CONTRACTOR/OFFEROR 15C. DATE SIGNED (Signature of Contracting Officer) (Signature of Contracting Officer)						
4. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: (b)(6) To increase incremental funding for SubCLIN 0017AA in the amount of \$10,149,000. **Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as hereto fire changed, retrains unchanged and in fail force and effect. NAME AND TITLE OF SIGNER (Type or print) 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) (b) 5B. CONTRACTOR/OFFEROR 15C. DATE SIGNED (Signature of person authorized to sign)			this document and return	conies to the issui	na office	
where feasible.) Modification Control Number: To increase incremental funding for SubCLIN 0017AA in the amount of \$10,149,000. **Exercit as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as hereto fire changed, remains unchanged and in full force and effect. NAME AND TITLE OF SIGNER (Type or print) 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) (b) (5B. CONTRACT OR/OFFEROR 15C. DATE SIGNED (Signature of Contracting Officer)		<u></u>				
NAME AND TITLE OF SIGNER (Type or print) 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) (b) 5B. CONTRACTOR/OFFEROR 15C. DATE SIGNED (Signature of person authorized to sign) (Signature of Contracting Officer)	where feasible.) Modification Control Number:			tation/contract su		(b)(6)
(Signature of person authorized to sign) 20-Mar-2012						or print) (b)(6
(Signature of person authorized to sign) (Signature of Contracting Officer)		15C. DATE SIGNED				C. DATE SIGNED (D)
		1				

EXCEPTION TO SF 30 APPROVED BY OIRM 11-84

002470

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

(b)(4)

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by \$10,149,000.00 from \$1,812,909,221.63 to \$1,823,058,221.63.

SUBCLIN 0017AA:

MF: 21 1 2040 5L 5L68 P172419E555L 255Y 4M1J730000 S01021 4M1J730000/14MJLE/4M5 was increased by \$149,000.00 from \$269,411,505.00 to \$269,560,505.00

Target Cost, Target Fee, and Total for the above increase of \$149,000 is distributed as follows and includes an increase in target cost of of cost and f facilities capital cost of money) and an increase in target incentive fee of hich is of target cost less facilities capital cost of money. Target Cost Target Fee Total \$149,000

MW: 21 2 2040 5L 5L68 P172419E555L 255Y 4M2J714500 S01021 4M2J714500/24MJLE/4M5 was increased by \$10,000,000.00 from \$0.00 to \$10,000,000.00

The contract ACRN MW has been added.

Target Cost, Target Fee, and Total for the above increase of is distributed as follows and includes an (b)(4)increase in target cost of f facilities capital cost of money) and an of cost and increase in target incentive fee of \$ 6 of target cost less facilities capital cost of money. which is (b)(4)Target Cost (b)(4)Target Fee Total \$10,000,000

IMPLEMENTATION OF AND EXPLANATION OF THE RELATIONSHIP OF THE LIMITATION OF FUNDS (LOF) CLAUSE TO FEE OBLIGATIONS, subparagraph c., is revised to read as follows:

SUBCLIN 0017AA: THIS **CUMULATIVE PRIOR MODIFICATION** TOTAL* (1) Amount Required for Full Funding, \$1,594,280,516 Including Fee: \$ 1,594,280,516 (2) Amount Allotted Under the LOF Clause (b]H for Payment of Costs: (3) Amount Separately Obligated for Payment of Fee: (b)(4 \$1,579,706,531.27 (4) Total Amount Allotted and Obligated: \$10,149,000 \$1,589,855,531.27 (5) Net Amount Required for Full Funding \$ 14,573,984.73 (\$10,149,000) 4,424,984.73

- * These figures take into consideration the negotiated total value of SubCLIN 0017AA (This does not include SubCLIN 17AH)
- 2. The following is an update to Modification P00249 showing a summary of funding by ACRN through Modification P00250:

ACRN	<u>FUNDING</u>
AA	440,100.00
AB	2,298,235.00
AC	17,832,987.00
AD	0.00
AE	7,500,000.00
AF	3,300,000.00
AG	17,192,400.00
AH	700,000.00
AJ	200,000.00
AK	85,000.00
AL	45,000.00
AM	17,045,000.00
AN	5,800.00
AP	20,779,000.00
AQ	105,000.00
AR	35,000.00
AS	0.00
AT	6,984,678.52
AU	7,970,000.00
AV	0.00
AW	100,000.00
AX	3,396,000.00
AY	550,000.00
AZ	19,412,000.00
BA	24,527,878.00
BB	146,000.00
ВС	72,000.00
BD	85,000.00
BE	100,000.00
BF	100,000.00
BG	1,975,321.00
BH	38,018,908.00
BJ	7,896,673.34
BK	260,000.00
BL	0.00
BM	125,000.00
BN	103,000.00
BP	10,199,288.50
BU	350,000.00
BV	9,000.00
BW	84,896,852.00
	,,

BX	1,146,000.00
BY	3,880,000.00
BZ	190,000.00
KL	118,250.00
KM	192,793,000.00
KN	0.00
KQ	92,811.00
KR	0.00
KS	0.00
KT	386,377,998.00
KU	2,203,183.00
KV	65,000.00
KW	20,000.00
KX	60,000.00
KY	25,000.00
KZ	25,000.00
LA	13,508.00
LB	12,500.00
LC	200,000.00
LD	7,943,648.00
LE	1,173,850.00
LF	10,000.00
LG	62,000.00
LH	400,000.00
LJ	7,476.00
LK	\$281,575,897.00
LL	\$173,798.00
LM	\$1,410,376.00
LN	\$630,061.00
LP	\$83,200.00
LQ LR	\$235,566.00 \$125,000.00
LS	\$125,000.00 \$6,069,616.00
LT	\$530,377.00
LU	\$9,100,000.00
LV	\$1,957,265.00
LW	\$255,567.00
LX	\$68,000.00
LY	\$264,807,424.52
LZ	\$1,751,384.00
MA	\$2,982,442.00
MB	\$375,000.00
MC	\$2,283,481.00
MD	\$8,573.00
ME	\$0.00
MF	\$269,560,505.00
MG	\$6,262,095.00
MH	\$213,390.00
	•
MJ MK	\$858,495.00 \$56.076.00
TATE	\$56,076.00

ML	\$116,044.00
MM	\$1,618,600.00
MN	\$2,573,000.00
MP	\$250,000.00
MQ	\$691,421.00
MR	\$0.00
MS	\$700,000.00
MT	\$16,289,524.00
MU	\$7,864,499.00
MV	\$39,921,199.75
MW	\$10,000,000.00

3. The following is an update to Modification P00249 showing a summary of funding by CLIN by ACRN through Modification P00250:

CLIN	<u>ACRN</u>	FUNDING AMT	CLIN TOTAL
CLIN 0001	AA	440,100.00	
CLIN 0001	AD	0.00	
			440,100.00
CLIN 0003	AB	2,298,235.00	
CLIN 0003	AC	17,832,987.00	
CLIN 0003	AD	0.00	
CLIN 0003	AE	7,500,000.00	
CLIN 0003	AF	3,300,000.00	
CLIN 0003	AG	17,192,400.00	
CLIN 0003	AH	700,000.00	
CLIN 0003	AM	17,045,000.00	
CLIN 0003	AN	5,800.00	
CLIN 0003	AP	20,779,000.00	
CLIN 0003	AS	0.00	
CLIN 0003	AT	6,984,678.52	
CLIN 0003	AW	100,000.00	
CLIN 0003	AY	550,000.00	
			94,288,100.52
CLIN 0005	ВА	24,527,878.00	
CLIN 0005	BB	146,000.00	
CLIN 0005	BC	72,000.00	
CLIN 0005	BD	85,000.00	
CLIN 0005	BE	100,000.00	
CLIN 0005	BF	100,000.00	
CLIN 0005	BG	1,975,321.00	
CLIN 0005	BH	38,018,908.00	
CLIN 0005	BL	0.00	
CLIN 0005	BZ	0.00	

		سيب	65,025,107.00
		=	03,023,107.00
CLIN 0007AA	BP	10,199,288.50	
			10,199,288.50
~~~~~~~~.			
CLIN 0009AA	AQ	45,106.00	
CLIN 0009AA	AV	0.00	
CLIN 0009AA	BK	256,545.00	
CLIN 0009AA	BM	125,000.00	
CLIN 0009AA	BN	21,315.00	447,966.00
		-	
CLIN 0009AB	AJ	200,000.00	
CLIN 0009AB	AK	85,000.00	
CLIN 0009AB	AL	45,000.00	
CLIN 0009AB	AQ	59,894.00	
CLIN 0009AB	AR	35,000.00	
CLIN 0009AB	BK	3,455.00	
CLIN 0009AB	BN	81,685.00	
CLIN 0009AB	BU	350,000.00	
CLIN 0009AB	BV	9,000.00	
		==	869,034.00
CLIN 0013	AU	7,970,000.00	
CLIN 0013 CLIN 0013	AX	3,396,000.00	
CLIN 0013 CLIN 0013	AY	0.00	
CLIN 0013 CLIN 0013	AZ	19,412,000.00	
CLIN 0013	BJ	7,896,673.34	
CLIN 0015	Ы	7,090,073.34	38,674,673.34
			30,074,073.34
CLIN 0017	BW	0.00	
CLIN 0017	KM	0.00	
			0.00
CLIN 0017AA	BY	3,880,000.00	
CLIN 0017AA	BX	1,146,000.00	
CLIN 0017AA	BW	84,896,852.00	
CLIN 0017AA	BZ	0.00	
CLIN 0017AA	KM	192,793,000.00	
CLIN 0017AA	KN	0.00	
CLIN 0017AA	KQ	66,151.00	
CLIN 0017AA	KS	0.00	
CLIN 0017AA	KT	386,204,200.00	
CLIN 0017AA	KU	2,203,183.00	
CLIN 0017AA	KY	0.00	
CLIN 0017AA	LC	200,000.00	
CLIN 0017AA	LD	7,943,648.00	
		. 4	

CLIN 0017AA	LE	0.00	
CLIN 0017AA	LH	400,000.00	
CLIN 0017AA CLIN 0017AA	LJ LK	7,476.00 281,575,897.00	
CLIN 0017AA	LQ	235,566.00	
CLIN 0017AA	LS	6,069,616.00	
CLIN 0017AA	LT	530,377.00	
CLIN 0017AA	LU	\$9,100,000.00	
CLIN 0017AA	LV	\$1,957,265.00	
CLIN 0017AA	LW	\$255,567.00	
CLIN 0017AA	LX	\$68,000.00	
CLIN 0017AA	LY	\$264,807,424.52	
CLIN 0017AA	MB	\$375,000.00	
CLIN 0017AA	MC	\$2,283,481.00	
CLIN 0017AA	MD	\$8,573.00	
CLIN 0017AA	ME	\$0.00	
CLIN 0017AA	MF	\$269,560,505.00	
CLIN 0017AA	MH	\$213,390.00	
CLIN 0017AA	MJ	\$858,495.00	
CLIN 0017AA	MK	\$56,076.00	
CLIN 0017AA	ML	\$116,044.00	
CLIN 0017AA	MM	\$1,618,600.00	
CLIN 0017AA	MN	\$2,573,000.00	
CLIN 0017AA	MP	\$250,000.00	
CLIN 0017AA	MQ	\$691,421.00	
CLIN 0017AA	MR	\$0.00	
CLIN 0017AA	MS	\$700,000.00	
CLIN 0017AA	MT	\$16,289,524.00	
CLIN 0017AA	MV	\$39,921,199.75	
CLIN 0017AA	MW	\$10,000,000.00	
CLINOUTTER	1/1 //	410,000,000,00	1,589,855,531.27
		=	1,507,055,551.27
		=	
		=	
CLIN 0017AB	KL	118,250.00	
CEIN OUT /AB	KL	110,230.00	118,250.00
		•	110,250.00
CLIN 0017AC	BZ	190,000.00	
		,	190,000.00
		=	
CLIN 0017AD	KN	0.00	
CLIN 0017AD	KS	0.00	

		<u></u>	0.00
CI DI COLE LE		150 500 00	
CLIN 0017AE	LL	173,798.00	173,798.00
CLIN 0017AH	KT	173,798.00	
			173,798.00
CLIN 0020AA	KN	0.00	
CLIN 0020AA	KQ	26,660.00	0
		_	26,660.00
CLIN 0021AA	KW	0.00	
		<b>30</b>	0.00
CLIN 0021AB	KV	0.00	
CLIN 0021AB	LB	0.00	
CLIN 0021AB	KX	0.00	
CLIN 0021AB	KY	0.00	
		<del>,</del>	0.00
CLIN 0021AC	KZ	0.00	
CLIN 0021AC	LA	0.00	
			0.00
CLIN 0022	KW	0.00	
			0.00
CLIN 0023	KX	60,000.00	
CLIN 0023	KY	25,000.00	
CLIN 0023	KV	65,000.00	
CLIN 0023 CLIN 0023	LB LF	12,500.00	
CLIN 0023	LR LR	10,000.00 \$125,000.00	
			297,500.00
CLIN 0024	LA	13,508.00	
CLIN 0024	LG	62,000.00	
CLIN 0024	KZ	25,000.00	
CLIN 0024	KW	20,000.00	
CLIN 0024	LP	83,200.00	
		-	203,708.00
CLIN 0025	LE	1,173,850.00	
CLIN 0025	LM	1,080,404.00	
CLIN 0025	MA	<del></del>	

		0.00	
			2,254,254.00
CLIN 0026	LN	630,061.00	
			630,061.00
CLIN 0027	LZ	1,751,384.00	
			1,751,384.00
CLIN 0028	LM	329,972.00	
CLIN 0028	MA	2,982,442.00	
CLIN 0028	MG	6,262,095.00	
CLIN 0028	MU	\$7,864,499	
		-	17,439,008.00

(End of Summary of Changes

AMENDMENT OF SOLIC	ITATION/MODIF	ICATION OF CONTRACT	•	1. CONTRACT	ID CODE	PAGE	F PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.		1	5. PROÆCT	4O (Itappli	
P00251	03mA412						
6. ISSUED BY CODE  UBASMOCIARSTRAT  SMOC-RDC PO BCK 1800 HUNTBMULE AL 39807-3901		7. ADMINISTERED BY (Ifother than items) DCMA RAYTHEON SOAPPLE HALL DRIVE M/S TZFRZ TENNEBURY MA 01875		60	DE   \$2205	WA .	
8. NAME AND ADDRESS OF CONTRACTOR RAYTHBON COMPANY SOLLOWELST. ANDOYMELST. ANDOYMEN MADISTO-4400	OR (No., Street, County, S	tate and Zip Code)		A. AMENDM B. DATED (S			ION NO.
			x H	0A. MOD. OF ASG60-98-C	CONTRACT	CORDER	NO.
	•		10	B. DATED			
CODE 05716	FACILITY COD			0-Jen-1998			···········
The above numbered solicitation is smended as se		PPLIES TO AMENDMENTS OF SOLIC		FIONS excended.	is not exten	ded	
Offir must acknowledge receipt of this amendmen		· ·	``	τ	IN REST STEERING	<b>35</b> 9.	
(a) By completing Items 8 and 15, and returning or (a) By separate letter or telegram which include RECEIVED ATTHE PLACE DESIGNATED FO REJECTION OF YOUR OFFER. If by virtue of the provided each telegram or letter makes reference to	is a reference to the solicitation a PR THE RECSIPT OF OFFERS P nis assendment you desire to chan	RIOR TO THE HOUR AND DATE SPECIFIED age on office already submitted, such change may b	ACKNO D MAY be made	WLEDGMENT RESULT IN by telegramor le	TO BE		
12. ACCOUNTING AND APPROPRIATION See Schedule	N DATA (If required)						
		O MODIFICATIONS OF CONTRACT! TAORDER NO. AS DESCRIBED IN ITE					
A. THIS CHANGE ORDER IS ISSUED PU CONTRACT ORDER NO. IN ITEM 10		thority) THE CHANGES SET FORTH	IN ITI	EM 14 ARE N	MADE IN TH	IE	
B. THE ABOVE NUMBERED CONTRAC office, appropriation date, etc.) SET FC	ORTH IN ITEM 14, PURS	UANT TO THE AUTHORITY OF FA			s changes in	paying	
X C. THIS SUPPLEMENTAL AGREEMEN' FAR 43.103(a)(3), Mutual Agreement and	FAR 52.232-22, "Limitati						
D. OTHER (Specify type of modification	· · · · · · · · · · · · · · · · · · ·						
E. IMPORTANT: Contractor is not,	<u> </u>	this document and return 1		to the issuing			
14. DESCRIPTION OF AMENDMENT/MOI where feasible.) Modification Control Number:				·			(b)(b)
The purpose of this modification is to incre \$52,974,283 to allow for continuation of c agrees to 1) submit the complete cost date from the effective date of this modification (IBR), and 3) negotiate in good faith with it Should any of the submitted data not be cand/or a complete overrun proposal. Any if necessary, upon completion of negotiati	ontract performance. As a established as part of th i, 2) timely submit all cost o he Government to reach a oneidered sufficient, the G additional adjustments to	supporting documentation for the projection of the project Cover Target Schedule (OTS) Re-pladets necessary for conduct of the upon agreement regarding data submitted to require the right to require	ected in with coming for th est add	overrun, the o in seven (7) o integrated B ie re-plan and ditional cost in	contractor calendar day sseline Revi the IBR dormation	<b>W</b>	
Except to provided havin, all terms and conditions of the state of the	15C. DATE SIGNED  3 May 28/2	A or 10 A, as hereto fire changed, remains unchan The state of community of the community o		THE COURT	TR (Type 0	DATES Ma	12 (b)(b)
APPROVED BY OIRM 11-84	Č	02479			cribed by OS/ (48 CFR) 53		·

increase in cost and a

# SECTION SF 30 BLOCK 14 CONTINUATION PAGE

# **SECTION SF 30 BLOCK 14 CONTINUATION PAGE**

### **SUMMARY OF CHANGES**

# 1. SECTION A - SOLICITATION/CONTRACT FORM

The total cost of this contract was increased by \$88,174,467.00 from \$1,832,028,963.00 to \$1,920,203,430.00.

## 2. SECTION B - SUPPLIES OR SERVICES AND PRICES

# SUBCLIN 0017AA The target cost has increased by from from the target profit/fee has decreased by from from the total cost of this line item has increased by \$88,174,467.00 from \$1,594,280,516.00 to \$1,682,454,983.00.

CLIN 0030 is added as follows:

This includes an increase in target cost of

ÎTEM NO SUPPLIES/SERVICES QUANTITY UNIT UNIT PRICE AMOUNT 0030 \$52,974,283.00

consisting of a

## **CPIF**

CLIN 0030 has been established for the sole purpose of obligating GFEBS funding for performance of SubCLIN 0017AA. The value of CLIN 0030 equates to the amount of GFEBS funding obligated for performance of SubCLIN 0017AA and should not be considered additional contract value. Informational SubCLINs under CLIN 0030 will be established each time additional GFEBS funding is obligated. CLIN 0030 and its SubCLINS will not be segregated from SubCLIN 0017AA, identified, accounted for, invoiced, analyzed, or reported separately from SubCLIN 0017, including EVMS. All scope remains under SubCLIN 0017AA with associated incentive events and flat zones.

increase in facilities capital cost of money, and a decrease in target fee of \$

FOB: Destination

SUBCLIN 003001 is added as follows:

CEM NO SUPPLIES/SERVICES QUANTITY UNIT UNIT PRICE AMOUNT 003001

GFEBS Funding for SubCLIN 0017AA

CPIF

FOB: Destination

**ACRN MX** 

\$52,974,283.00

CIN: GFEBS001015913300001

# B-17. INCENTIVE FEE FOR SUBCLIN 0017AA/CLIN 0018 (SEE H-19):

In accordance with FAR 52.216-7, entitled "Allowable Cost and Payments", and FAR 52.216-10, entitled "Incentive Fee", the total amount for reimbursement of cost and fee for performance under SubCLIN 0017AA/CLIN 0018 are set forth below:

Target Cost (PA) Target Fee Incentive Arrangement: Maximum Fee: Minimum Fee: (b(4) (b)(4) (Share Ratio: Government/Contractor) Underrun: or the amount by which the total allowable cost is less than the target cost until (b)(4) maximum fee is attained. Overrun: for the amount by which the total allowable cost exceeds the target cost until minimum (b) fee is attained. FAR 52.216-10, INCENTIVE, paragraph (e)(1), is stated as follows:

(e) Fee Payable.

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

(b)(4)

(b)(4)

B-18. TARGET COST, TARGET FEE, MINIMUM INCENTIVE FEE, MAXIMUM INCENTIVE FEE, AND INCENTIVE ARRANGEMENT FOR SUBCLIN 0017AA/CLIN 0018:

# SUBCLIN 0017AA - (Two SDD JLENS Systems)

a.	Target cost:		(b)X4
b.	Target fee:		<b>હ)</b> (૧ _,
c.	Minimum incentive fee:		(b)(4)
d.	Maximum incentive fee:		(b)(4)
e.	Total target cost and target fee:	\$1,682,454,983	914)

(b)(1

### SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by \$52,974,283.00 from \$1,823,058,221.63 to \$1,876,032,504.63.

SUBCLIN 003001 (GFEBS funding for SubCLIN 0017AA):

Funding on SUBCLIN 003001 is initiated as follows:

ACRN: MX

CIN: GFEBS001015913300001

Accting Data: 02120122013204000001171722550030003242A.0000013.1.1 6100.9000021001

Increase: \$52,974,283.00

Total: \$52,974,283.00

Cost Code: A5XFJ

Target Cost, Target Fee, and total for the above increase of \$52,974,283 is distributed as follows and includes an increase in target cost os \$50,000 facilities capital cost of money) and an increase in target fee of the Target Cost Target Fee

Total \$52,974,283

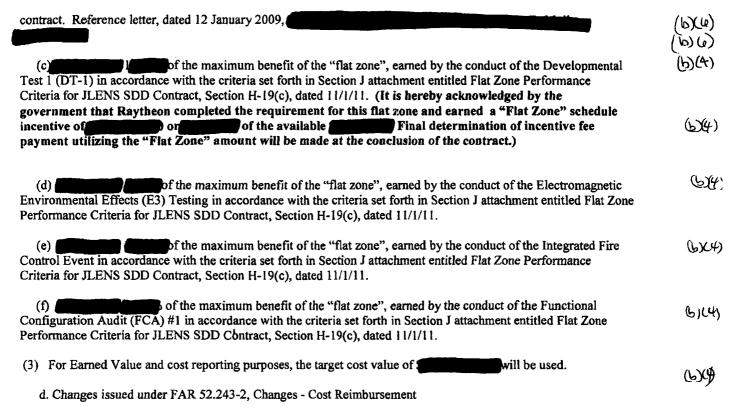
IMPLEMENTATION OF AND EXPLANATION OF THE RELATIONSHIP OF THE LIMITATION OF FUNDS (LOF) CLAUSE TO FEE OBLIGATIONS, subparagraph c., is revised to read as follows:

SUBCLIN 0017AA:	<u>PRIOR</u>	THIS <u>MODIFICATION</u>	CUMULATIVE TOTAL*	
<ol> <li>Amount Required for Full Funding, Including Fee:</li> </ol>	\$1,594,280,516	\$88,174,467	\$ 1,682,454,983	
(2) Amount Allotted Under the LOF Clause for Payment of Costs:				(bY
(3) Amount Separately Obligated for Payment of Fee:		بجسور	\$	(b)4
<ul><li>(4) Total Amount Allotted and Obligated:</li><li>(5) Net Amount Required for Full Funding</li></ul>	\$1,589,855,531.27 \$ 4,424,984.73	\$52,974,283.00 \$35,200,184.00	\$1,642,829,814.27 \$ 39,625,168.73	σ,

^{*} These figures take into consideration the negotiated total value of SubCLIN 0017AA (This does not include SubCLIN 17AH)

^{**} Based on adjustment of the incentive fee for actual costs more than the target cost using the share ratio (b)(4)

or in accordance with paragraph H-19(b)(4) and the amount of fee currently billed by the contractor, the amount separately obligated for paymennt of fee has been overfunded by fundamental previously obligated to fee are hereby reallocated to cost.	(b)(4)
4. SECTION H - SPECIAL CONTRACT REQUIREMENTS is revised as follows:	
Paragraph H-19, <u>INCENTIVE FEE STRUCTURE AND PAYMENT FOR CLIN 0017</u> , <u>SYSTEM DEVELOPMENT AND DEMONSTRATION (SDD)</u> , subparagraph c., is revised as follows:	
a. General.	
SubCLIN 0017AA, System Development and Demonstration (SDD), is a cost-plus-incentive-fee (CPIF) Line Item with cost and schedule incentives as described below. Paragraph H-19(b) applies only to the Cost Incentive and Paragraph H-19(c) applies only to the Schedule Incentive. The contract price amount of \$1,682,454,983 includes a target cost of (which includes which is the foot and starget cost less facilities capital cost of money) and a target incentive fee of \$1000000000000000000000000000000000000	(b)(4)
b. Cost Incentive.	
(1) The target fee payable under SubCLIN 0017AA is the target cost less facilities capital cost of money an amount equal to	(b)(4) (b)4)
(2) The maximum fee payable under SubCLIN 0017AA is the target cost less facilities capital cost of money an amount equal to	(PXA)
(3) The minimum fee payable under SubCLIN 0017AA fifthe target cost less facilities capital cost of money an amount equal to	(4) (ط)
(4) Fee will be adjusted for actual cost that is less than or more than the target cost stated above using a share ratio overnment contractor for actual costs less than the target cost, and a ratio of Government / ontractor for actual costs greater than the target cost range applied according to Paragraph H-19(c)(1).	(L)(4)
(5) Nothing stated in this clause shall take precedence over the clause 52.216-10 - Incentive Fee contained in this contract.	
c. Schedule and Performance Incentive.	
(1) A maximum "flat zone" will be established at the target cost value of the conduct of milestones below. The "flat zone" over which the contractor will earn target fee is for eligible costs from to to once the program milestones set forth below are conducted. (Note: As of the effective date of Modification P00251, only of the maximum "lat zone" has been acknowledged as earned.)	<i>(</i> የአሉ) (Pአሉ) (Pአሉ)
Functional Review NLT 2nd Quarter, Fiscal Year 2007. (It is hereby acknowledged by the government that Raytheon completed the requirement for this flat zone and earned the "Flat Zone" schedule incentive of	( <b>b)(</b> 4)
Final determination of incentive fee payment utilizing the "Flat Zone" amount will be made at the conclusion of the contract. Reference letter,	නක) (නුඹ (වාය)
(black), the of the maximum benefit of the "flat zone", earned by the conduct of SDD Orbit Critical Design review NLT 2nd Quarter, Fiscal Year 2009. (It is hereby acknowledged by the government that Raytheon completed the requirement for this flat zone and earned the "Flat Zone" schedule incentive of the determination of incentive fee payment utilizing the "Flat Zone" amount will be made at the conclusion of the	(P)A)



In the event of a change issued under FAR 52.243-2, Changes - Cost Reimbursement, it is agreed that changes to the performance and schedule incentive may be considered a part of the equitable adjustment. In the event that any Options to CLIN 0017 are added and exercised, the incentive fee for cost and schedule/performance applicable to the Option will be incorporated in accordance with the incentive fee structure of this provision.

5. The following is an update to Modification P00250 showing a summary of funding by ACRN through Modification P00251:

<u>ACRN</u>	<u>FUNDING</u>	
AA		440,100.00
AB		2,298,235.00
AC		17,832,987.00
AD		0.00
ΑE		7,500,000.00
AF		3,300,000.00
AG		17,192,400.00
AH		700,000.00
AJ		200,000.00
AK		85,000.00
AL		45,000.00
AM		17,045,000.00
AN		5,800.00
AP		20,779,000.00
AQ		105,000.00

AR	35,000.00
AS	0.00
AT	6,984,678.52
AU	7,970,000.00
AV	0.00
AW	100,000.00
AX	3,396,000.00
AY	550,000.00
AZ	19,412,000.00
BA	24,527,878.00
BB	146,000.00
BC	72,000.00
BD	85,000.00
BE	100,000.00
BF	100,000.00
BG	1,975,321.00
ВН	38,018,908.00
BJ ·	7,896,673.34
BK	260,000.00
BL	0.00
BM	125,000.00
BN	103,000.00
BP	10,199,288.50
BU	350,000.00
BV	9,000.00
	84,896,852.00
BW	
BX	1,146,000.00
BY	3,880,000.00
BZ	190,000.00
KL	118,250.00
KM	192,793,000.00
KN	0.00
KQ	92,811.00
KR	0.00
KS	0.00
KT	386,377,998.00
KU	2,203,183.00
KV	65,000.00
KW	20,000.00
KX	60,000.00
KY	25,000.00
KZ	25,000.00
LA	13,508.00
LB	12,500.00
LC	200,000.00
LD	7,943,648.00
LE	1,173,850.00
LF	10,000.00
LG	62,000.00
LH	400,000.00

LJ	7,476.00
LK	\$281,575,897.00
LL	\$173,798.00
LM	\$1,410,376.00
LN	\$630,061.00
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LW	\$255,567.00
LX	\$68,000.00
LY	\$264,807,424.52
LZ	\$1,751,384.00
MA	\$2,982,442.00
MB	\$375,000.00
MC	\$2,283,481.00
MD	\$8,573.00
ME	\$0.00
MF	\$269,560,505.00
MG	\$6,262,095.00
MH	\$213,390.00
MJ	\$858,495.00
MK	\$56,076.00
ML	\$116,044.00
MM	\$1,618,600.00
MN	\$2,573,000.00
MP	\$250,000.00
MQ	\$691,421.00
MR	\$0.00
MS	\$700,000.00
MT	\$16,289,524.00
MU	\$7,864,499.00
MV	\$39,921,199.75
MW	\$10,000,000.00
MX	\$52,974,283.00

6. The following is an update to Modification P00250 showing a summary of funding by CLIN by ACRN through Modification P00251:

<u>CLIN</u>	<u>ACRN</u>	FUNDING AMT CLIN TOTA	<u> </u>
CLIN 0001	AA	440,100.00	
CLIN 0001	AD	0.00	
		440.	,100.00

CLIN 0003	AB	2,298,235.00	
CLIN 0003	AC	17,832,987.00	
CLIN 0003	AD	0.00	
CLIN 0003	ΑE	7,500,000.00	
CLIN 0003	AF	3,300,000.00	
CLIN 0003	AG	17,192,400.00	
CLIN 0003	AH	700,000.00	
CLIN 0003	AM	17,045,000.00	
CLIN 0003	AN	5,800.00	
CLIN 0003	AP	20,779,000.00	
CLIN 0003	AS	0.00	
CLIN 0003	AT	6,984,678.52	
CLIN 0003	AW	100,000.00	
CLIN 0003	AY	550,000.00	
CEIII 0005	***	220,000.00	94,288,100.52
			71,200,100.32
CI DI 0005	DA	24 527 979 00	
CLIN 0005	BA	24,527,878.00	
CLIN 0005	BB	146,000.00	
CLIN 0005	BC	72,000.00	
CLIN 0005	BD	85,000.00	
CLIN 0005	BE	100,000.00	
CLIN 0005	BF	100,000.00	
CLIN 0005	BG	1,975,321.00	
CLIN 0005	ВН	38,018,908.00	
CLIN 0005	BL	0.00	
CLIN 0005	BZ	0.00	
			65,025,107.00
CLIN 0007AA	BP	10,199,288.50	
			10,199,288.50
CLIN 0009AA	AQ	45,106.00	
CLIN 0009AA	AV	0.00	
CLIN 0009AA	BK	256,545.00	
CLIN 0009AA	BM	125,000.00	
CLIN 0009AA	BN	21,315.00	
CDIN 0007III	DI	21,310.00	447,966.00
			447,500.00
CLIN 0009AB	AJ	200,000,00	
CLIN 0009AB	AK	85,000.00	
CLIN 0009AB	AL AL	45,000.00	
		59,894.00	
CLIN 0009AB	AQ	·	
CLIN 0009AB	AR	35,000.00	
CLIN 0009AB	BK	3,455.00	•
CLIN 0009AB	BN	81,685.00	
CLIN 0009AB	BU	350,000.00	
CLIN 0009AB	BV	9,000.00	

			869,034.00
CLIN 0013	AU	7,970,000.00	
CLIN 0013	AX	3,396,000.00	
CLIN 0013	AY	0.00	
CLIN 0013	AZ	19,412,000.00	
CLIN 0013	BJ	7,896,673.34	
			38,674,673.34
CLIN 0017	BW	0.00	
CLIN 0017	KM	0.00 _	
			0.00
CLIN 0017AA	BY	3,880,000.00	
CLIN 0017AA	BX	1,146,000.00	
CLIN 0017AA	BW	84,896,852.00	
CLIN 0017AA	BZ	0.00	
CLIN 0017AA CLIN 0017AA	KM KN	192,793,000.00 0.00	
CLIN 0017AA CLIN 0017AA	KQ	66,151.00	
CLIN 0017AA CLIN 0017AA	KS	0.00	
CLIN 0017AA	KT	386,204,200.00	
CLIN 0017AA	KU	2,203,183.00	
CLIN 0017AA	KY	0.00	
CLIN 0017AA	LC	200,000.00	
CLIN 0017AA	LD	7,943,648.00	
CLIN 0017AA	LE	0.00	
CLIN 0017AA	LH	400,000.00	
CLIN 0017AA	LJ	7,476.00	
CLIN 0017AA	LK	281,575,897.00	
CLIN 0017AA	LQ	235,566.00	
CLIN 0017AA	LS	6,069,616.00	
CLIN 0017AA	LT	530,377.00	
CLIN 0017AA	LU	\$9,100,000.00	
CLIN 0017AA	LV	\$1,957,265.00	
CLIN 0017AA	LW	\$255,567.00	
CLIN 0017AA	LX	\$68,000.00	
CLIN 0017AA	LY	\$264,807,424.52	
CLIN 0017AA	MB	\$375,000.00	3
CLIN 0017AA	MC	\$2,283,481.00	
CLIN 0017AA	MD	\$8,573.00	
CLIN 0017AA	ME	\$0.00	
CLIN 0017AA	MF	\$269,560,505.00	
CLIN 0017AA	MH	\$213,390.00	
CLIN 0017AA	MJ	\$858,495.00	

CLIN 0017AA	MK	\$56,076.00	
CLIN 0017AA	ML	\$116,044.00	
CLIN 0017AA	MM	\$1,618,600.00	
CLIN 0017AA	MN	\$2,573,000.00	
CLIN 0017AA	MP	\$250,000.00	
CLIN 0017AA	MQ	\$691,421.00 <u></u>	
CLIN 0017AA	MR	\$0.00	
CLIN 0017AA	MS	\$700,000.00	
CLIN 0017AA	MT	\$16,289,524.00	
CLIN 0017AA	MV	\$39,921,199.75	
CLIN 0017AA	MW	\$10,000,000.00	
CLIN 0017AA	MX	\$52,974,283.00	
		=	1,642,829,814.27
		=	
CLIN 0017AB	KL	118,250.00	
		-	118,250.00
CLIN 0017AC	BZ	190,000.00	
			190,000.00
CLIN 0017AD	KN	0.00	
CLIN 0017AD	KS	0.00	
		<b>32</b>	0.00
CLIN 0017AE	LL	173,798.00	
			173,798.00
CLIN 0017AH	КТ	173,798.00	
CEAN COATTAIN		175,176.00	173,798.00
CLIN 0020AA	KN	0.00	
CLIN 0020AA	KQ	26,660.00 _	26,660.00
		<del>2</del>	
CLIN 0021AA	KW	0.00 _	
		=	0.00
CLIN 0021AB	KV	0.00	
CLIN 0021AB	LB	0.00	
CLIN 0021AB	KX	0.00	
CLIN 0021AB	KY	0.00	

		-	0.00
		=	
CLIN 0021AC	KZ	0.00	
CLIN 0021AC	LA	0.00	
		-	0.00
CLIN 0022	KW	0.00	
CEIN 0022	ΚW	0.00 _	0.00
		_	0.00
CLIN 0023	KX	60,000.00	
CLIN 0023	KY	25,000.00	
CLIN 0023	KV	65,000.00	
CLIN 0023	LB	12,500.00	
CLIN 0023	LF	10,000.00	
CLIN 0023	LR	\$125,000.00	
		<del>-</del>	297,500.00
CLIN 0024	LA	13,508.00	
CLIN 0024	LG	62,000.00	
CLIN 0024	KZ	25,000.00	
CLIN 0024	KW	20,000.00	
CLIN 0024	LP	83,200.00	
		=	203,708.00
CLIN 0025	LE	1,173,850.00	
CLIN 0025	LM	1,080,404.00	
		-	
CLIN 0025	MA	0.00	
			2,254,254.00
CLIN 0026	LN	630,061.00	
		_	630,061.00
CLIN 0027	LZ	1 751 294 00	
CLIN 0027	LL	1,751,384.00	1,751,384.00
			,
CLIN 0028	LM	329,972.00	
CLIN 0028	MA	2,982,442.00	
CLIN 0028	MG	6,262,095.00	
CLIN 0028	MU	\$7,864,499	
			17,439,008.00
CLIN 003001*	MX	\$52,974,283.00	

^{*} CLIN 0030 has been established for the sole purpose of obligating GFEBS funding for performance of SubCLIN 0017AA. Informational SubCLINs under CLIN 0030 will be established each time additioanl

DASG60-98-C-0001 P00251 Page 13 of 13

GFEBS funding is obligated. For pruposes of this funding update, funding obligated under CLIN 0030 will also be reflected under SubCLIN 0017AA and should not be counted twice with regards of the total contract funding obligated.

(End of Summary of Changes)

A DATE DATE DE COL TOTO	A TIONA AODII			1. CONTRACT	ID CODE	PAGE	F PAGES
AMENDMENT OF SOLICITA	A I IUN/MUDII	ICATION OF CONTRACT		V		1 1	9
AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.			5. PROJECT N	O.(Ifappli	cable)
00252	10-May-2012						
SSUED BY CODE	W9113M	7. ADMINISTERED BY (Ifother than item 6)		CO	DE S2205	A	
JSASMDC/ARSTRAT		DCMARAYTHEON 50 APPLE HILL DRIVE			-		
SMDC-RDC PO BOX 1500		M/S T2FR2					
-0 BOX 1300 HUNTSVILLE AL 35807-3801		TEWKSBURY MA 01876					
NAME AND ADDRESS OF CONTRACTOR	(No., Street, County,	State and Zip Code)	9.	A. AMENDM	ENT OF SOL	<b>ICITAT</b>	ION NO.
RAYTHEON COMPANY 350 LOWELL ST.			0	B. DATED (S	E ITEM 11	`	
ANDOVER MA 01810-4400			'	B. DATED (S	CE II LIVI II	,	
			χŀ	OA. MOD. OF	CONTRACT	r/ORDE	R NO.
			_   _	ASG60-98-C			
				OB. DATED	(SEE ITEM )	13)	
DDE 05716	FACILITY COL	DE APPLIES TO AMENDMENTS OF SOLI		0-Jan-1998			
1					is not exten	1.4	
The above numbered solicitation is amended as set for				extended,	18 not exten	acu.	
Offer must acknowledge receipt of this amendment price (a) By completing Items 8 and 15, and returning		cified in the solicitation or as amended by one oft nt; (b) By acknowledging receipt ofthis amendm		-	Se aubmitted:		
or (c) By separate letter or telegram which includes a n				• •			
RECEIVED AT THE PLACE DESIGNATED FOR THE							
REJECTION OF YOUR OFFER. If by virtue of this an provided each telegram or letter makes reference to the					iter,		
ACCOUNTING AND APPROPRIATION DA		distribution in the prior to the opening hour		apooraou.			
See Schedule	ATA (II ledanca)						
	EM APPLIES ONLY	TO MODIFICATIONS OF CONTRACT	SORD	ERS			
		CT/ORDER NO. AS DESCRIBED IN IT					
A. THIS CHANGE ORDER IS ISSUED PURS CONTRACT ORDER NO. IN ITEM 10A.	UANT TO: (Specify a	authority) THE CHANGES SET FORTH	IN IT	EM 14 ARE N	AADE IN T	Æ	
B. THE ABOVE NUMBERED CONTRACT/0	ORDER IS MODIFIED	TO REFLECT THE ADMINISTRATI	VE CH	ANGES (such	as changes in	paying	
office, appropriation date, etc.) SET FORT	TH IN ITEM 14, PUR	SUANT TO THE AUTHORITY OF FA	R 43.1	03(B).			
C. THIS SUPPLEMENTAL AGREEMENT IS	SENTERED INTO P	URSUANT TO AUTHORITY OF:					
D. OTHER (Specify type of modification and	authority)			······································			
UNILATERAL: FAR 52.232-22, "Limitation of							
IMPORTANT: Contractor X is not,	is required to sig	gn this document and return	copie	s to the issuin	g office.		
DESCRIPTION OF AMENDMENT/MODIF where feasible.)	ICATION (Organized	by UCF section headings, including solid	itation	/contract subj	ect matter		
Modification Control Number: To increase incremental funding for SubCLIN	0017AA in the amour	nt of \$954 375					
o more and entertain finding for outcome	GO I / FOT III DIE GINOGI	11 d) \$354,575.					
cept as provided herein, all terms and conditions of the d	ocument referenced in Item	9A or 10A, as heretofore changed, remains uncha	nged an	d in full force and	effect.		
A. NAME AND TITLE OF SIGNER (Type or	print)	16A. NAME AND TITLE OF CO	NTRA	CT ING OFFI	CER (Type o	r print)	
						(	b)(6)
CD CONTERACTOR/OFFEROR	ISC DATE STORE	D 16P UNITED STATES OF AME	DIC.4		1150		GIGNIED.
B. CONTRACTOR/OFFEROR	15C. DATE SIGNE	D IDECTION THE TEXT OF			160	. DATE	ได้ได้ใ
	.	BY	_			-May-20	12 // /
(Signature of person authorized to sign)		(Signature of Contracting Of	ficer)				
CEDITION TO PE 20				CCC .	ATTACK TO		

EXCEPTION TO SF 30 APPROVED BY OIRM 11-84

002492

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

### SECTION SF 30 BLOCK 14 CONTINUATION PAGE

## **SUMMARY OF CHANGES**

# 1. SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by \$954,375.00 from \$1,876,032,504.63 to \$1,876,986,879.63.

# SUBCLIN 0017AA:

MF: 21 1 2040 5L 5L68 P172419E555L 255Y 4M1J730000 S01021 4M1J730000/14MJLE/4M5 was increased by \$954,375.00 from \$269,560,505.00 to \$270,514,880.00

Target Cost, Target Fee, and total for the above increase of \$954,375 is distributed as follows and includes an increase in target cost of money) and an increase in target fee of

Target Cost
Target Fee
Total

\$954,375

IMPLEMENTATION OF AND EXPLANATION OF THE RELATIONSHIP OF THE LIMITATION OF FUNDS (LOF) CLAUSE TO FEE OBLIGATIONS, subparagraph c., is revised to read as follows:

SUBCLIN 0017AA:	PRIOR	THIS MODIFICATION	CUMULATIVE TOTAL*
(1) Amount Dominal for Euli Funding	PRIOR	MODIFICATION	IOIAL*
(1) Amount Required for Full Funding,	£1 C00 454 002	• •	# 1 CO2 AEA DO2
Including Fee:	\$1,682,454,983	\$ 0	\$ 1,682,454,983
(2) Amount Allotted Under the LOF Clause			(b)(4)
for Payment of Costs:		\$	$(b)(4)_{y}$
(3) Amount Separately Obligated for			(b)(4)
Payment of Fee:		\$	(b)(4)
(4) Total Amount Allotted and Obligated:	\$1,642,829,814.27	\$ 954,375.00	\$1,643,784,189.27
(5) Net Amount Required for Full Funding	\$ 39,625,168.73	(\$ 954,375.00)	\$ 38,670,793.73

^{*} These figures take into consideration the negotiated total value of SubCLIN 0017AA (This does not include SubCLIN 17AH)

2. The following is an update to Modification P00251 showing a summary of funding by ACRN through Modification P00252:

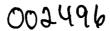
<u>ACRN</u>	<u>FUNDING</u>	
AA		440,100.00
AB		2,298,235.00

AC	17,832,987.00
AD	0.00
AE	7,500,000.00
AF	3,300,000.00
AG	17,192,400.00
AH	700,000.00
AJ	200,000.00
AK	85,000.00
AL	45,000.00
AM	17,045,000.00
AN	5,800.00
AP	20,779,000.00
AQ	105,000.00
AR	35,000.00
AS	0.00
AT	6,984,678.52
AU	7,970,000.00
AV	0.00
AW	100,000.00
AX	3,396,000.00
AY	550,000.00
AZ	19,412,000.00
	24,527,878.00
BA DD	· · · · · · · · · · · · · · · · · · ·
BB	146,000.00
BC	72,000.00
BD	85,000.00
BE	100,000.00
BF	100,000.00
BG	1,975,321.00
BH	38,018,908.00
BJ	7,896,673.34
BK	260,000.00
BL	0.00
BM	125,000.00
BN	103,000.00
BP	10,199,288.50
BU	350,000.00
BV	9,000.00
BW	84,896,852.00
BX	1,146,000.00
BY	3,880,000.00
BZ	190,000.00
KL	118,250.00
KM	192,793,000.00
KN	0.00
KQ	92,811.00
KR	0.00
KS	0.00
KT	386,377,998.00
KU	2,203,183.00
	_,200,100.00

KV	65,000.00
KW	20,000.00
KX	60,000.00
KY	25,000.00
KZ	25,000.00
LA	13,508.00
LB	12,500.00
LC	200,000.00
LD	7,943,648.00
LE	1,173,850.00
LF	10,000.00
LG	62,000.00
LH	400,000.00
LJ	7,476.00
LK	\$281,575,897.00
LL	\$173,798.00
LM	\$1,410,376.00
LN	\$630,061.00
LP	\$83,200.00
LQ	\$235,566.00
LR	\$125,000.00
LS	\$6,069,616.00
LT	\$530,377.00
LU	\$9,100,000.00
LV	\$1,957,265.00
LW	\$255,567.00
LX	\$68,000.00
LY	\$264,807,424.52
LZ	\$1,751,384.00
MA	\$2,982,442.00
MB	\$375,000.00
MC	\$2,283,481.00
MD	\$8,573.00
ME	\$0.00
MF	\$270,514,880.00
MG	\$6,262,095.00
MH	\$213,390.00
MJ	\$858,495.00
MK	\$56,076.00
ML	\$116,044.00
MM	\$1,618,600.00
MN	\$2,573,000.00
MP	\$250,000.00
MQ	\$691,421.00
MR	\$0.00
MS	\$700,000.00
MT	\$16,289,524.00
MU	\$7,864,499.00
MV	\$39,921,199.75
MW	\$10,000,000.00

3. The following is an update to Modification P00251 showing a summary of funding by CLIN by ACRN through Modification P00252:

CUN	<u>ACRN</u>	FUNDING AMT	CLIN TOTAL
CLIN	ACRI	FONDING AMI	CLIN TOTAL
CLIN 0001	AA	440,100.00	
CLIN 0001	AD	0.00	
			440,100.00
CLIN 0003	AB	2,298,235.00	
CLIN 0003	AC	17,832,987.00	
CLIN 0003	AD	0.00	
CLIN 0003	AE	7,500,000.00	
CLIN 0003	AF	3,300,000.00	
CLIN 0003	AG	17,192,400.00	
CLIN 0003	AH	700,000.00	
CLIN 0003	AM	17,045,000.00	
CLIN 0003	AN	5,800.00	
CLIN 0003	AP	20,779,000.00	
CLIN 0003	AS	0.00	
CLIN 0003	AT	6,984,678.52	
CLIN 0003	AW	100,000.00	
CLIN 0003	AY	550,000.00	
			94,288,100.52
		- /	
CLIN 0005	BA	24,527,878.00	
CLIN 0005	BB	146,000.00	
CLIN 0005	BC	72,000.00	
CLIN 0005	BD	85,000.00	
CLIN 0005	BE	100,000.00	
CLIN 0005	BF	100,000.00	
CLIN 0005	BG	1,975,321.00	
CLIN 0005	ВН	38,018,908.00	
CLIN 0005	BL	0.00	
CLIN 0005	BZ	0.00	
			65,025,107.00
CLIN 0007AA	ВР	10,199,288.50	
			10,199,288.50
CLIN 0009AA	AQ	45,106.00	
CLIN 0009AA	AV	0.00	
CLIN 0009AA	BK	256,545.00	
CLIN 0009AA	BM	125,000.00	
		,	



CLIN 0009AA	BN	21,315.00	
		,	447,966.00
CLIN 0009AB	AJ	200,000.00	
CLIN 0009AB	AK	85,000.00	
CLIN 0009AB	AL	45,000.00	
CLIN 0009AB	AQ	<b>59,894.00</b>	
CLIN 0009AB	AR	35,000.00	
CLIN 0009AB	BK	3,455.00	
CLIN 0009AB	BN	81,685.00	
CLIN 0009AB	BU	350,000.00	
CLIN 0009AB	BV	9,000.00	
			869,034.00
CLIN 0013	AU	7,970,000.00	
CLIN 0013	AX	3,396,000.00	
CLIN 0013	AY	0.00	
CLIN 0013	AZ	19,412,000.00	
CLIN 0013	BJ	7,896,673.34	
CEM 0015	DJ.	7,070,073.34	38,674,673.34
		<del></del>	**************************************
CLIN 0017	BW	0.00	
CLIN 0017	KM	0.00	
			0.00
		-	0.00
CLIN 0017AA	BY	3.880.000.00	0.00
CLIN 0017AA CLIN 0017AA	BY BX	3,880,000.00 1,146,000.00	0.00
CLIN 0017AA	BY BX BW	1,146,000.00	
CLIN 0017AA CLIN 0017AA	BX BW		
CLIN 0017AA CLIN 0017AA CLIN 0017AA	BX BW BZ	1,146,000.00 84,896,852.00 0.00	
CLIN 0017AA CLIN 0017AA	BX BW	1,146,000.00 84,896,852.00	0.00
CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA	BX BW BZ KM KN	1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00	
CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA	BX BW BZ KM	1,146,000.00 84,896,852.00 0.00 192,793,000.00	
CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA CLIN 0017AA	BX BW BZ KM KN KQ	1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00	
CLIN 0017AA	BX BW BZ KM KN KQ KS	1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00	0.00
CLIN 0017AA	BX BW BZ KM KN KQ KS KT	1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00	
CLIN 0017AA	BX BW BZ KM KN KQ KS KT KU	1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00 2,203,183.00	
CLIN 0017AA	BX BW BZ KM KN KQ KS KT KU	1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00 2,203,183.00 0.00	
CLIN 0017AA	BX BW BZ KM KN KQ KS KT KU KY	1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00 2,203,183.00 0.00 200,000.00	
CLIN 0017AA	BX BW BZ KM KN KQ KS KT KU KY LC LD	1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00 2,203,183.00 0.00 200,000.00 7,943,648.00	
CLIN 0017AA	BX BW BZ KM KN KQ KS KT KU KY LC LD LE	1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00 2,203,183.00 0.00 200,000.00 7,943,648.00 0.00	
CLIN 0017AA	BX BW BZ KM KN KQ KS KT KU KY LC LD LE LH	1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00 2,203,183.00 0.00 200,000.00 7,943,648.00 0.00 400,000.00	
CLIN 0017AA	BX BW BZ KM KN KQ KS KT KU KY LC LD LE LH LJ LK	1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00 2,203,183.00 0.00 200,000.00 7,943,648.00 0.00 400,000.00 7,476.00	
CLIN 0017AA	BX BW BZ KM KN KQ KS KT KU KY LC LD LE LH LJ	1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00 2,203,183.00 0.00 200,000.00 7,943,648.00 0.00 400,000.00 7,476.00 281,575,897.00	
CLIN 0017AA	BX BW BZ KM KN KQ KS KT KU KY LC LD LE LH LJ LK LQ LS	1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00 2,203,183.00 0.00 200,000.00 7,943,648.00 0.00 400,000.00 7,476.00 281,575,897.00 235,566.00 6,069,616.00	
CLIN 0017AA	BX BW BZ KM KN KQ KS KT KU KY LC LD LE LH LJ LK LQ LS LT	1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00 2,203,183.00 0.00 200,000.00 7,943,648.00 0.00 400,000.00 7,476.00 281,575,897.00 235,566.00 6,069,616.00 530,377.00	
CLIN 0017AA	BX BW BZ KM KN KQ KS KT KU KY LC LD LE LH LJ LK LQ LS	1,146,000.00 84,896,852.00 0.00 192,793,000.00 0.00 66,151.00 0.00 386,204,200.00 2,203,183.00 0.00 200,000.00 7,943,648.00 0.00 400,000.00 7,476.00 281,575,897.00 235,566.00 6,069,616.00	

CLIN 0017AA	LW	\$255,567.00	
CLIN 0017AA	LX	\$68,000.00	
CLIN 0017AA	LY	\$264,807,424.52	
CLIN 0017AA	MB	\$375,000.00	
CLIN 0017AA	MC	\$2,283,481.00	
CLIN 0017AA	MD	\$8,573.00	
CLIN 0017AA	ME	\$0.00	
CLIN 0017AA	MF	\$270,514,880.00	
CLIN 0017AA	MIH	\$213,390.00	
CLIN 0017AA	MJ	\$858,495.00	
CLIN 0017AA	MK	\$56,076.00	
CLIN 0017AA	ML	\$116,044.00	
CLIN 0017AA	MM	\$1,618,600.00	
CLIN 0017AA	MN	\$2,573,000.00	
CLIN 0017AA	MP	\$250,000.00	
CLIN 0017AA	MQ	\$691,421.00	
CLIN 0017AA	MR	\$0.00	
CLIN 0017AA	MS	\$700,000.00	
CLIN 0017AA	MT	\$16,289,524.00	
CLIN 0017AA	MV	\$39,921,199.75	
CLIN 0017AA	MW	\$10,000,000.00	
CLIN 0017AA	MX	\$52,974,283.00	
		-	1,643,784,189.27
		_	
		-	
CLIN 0017AB	KL	118,250.00	
		=	118,250.00
CT DY COLE ! C	D.7	100 000 00	
CLIN 0017AC	BZ	190,000.00	190,000.00
		=	190,000.00
CLIN 0017AD	KN	0.00	
CLIN 0017AD	KS	0.00	
		. <del></del>	0.00
CLIN 0017AE	LL	173,798.00	
			173,798.00
CLIN 0017AH	KT	173,798.00	
CDIII VVI IIMI	12.1	175,750.00	173,798.00
		=	

CLIN 0020AA	KN	0.00	
CLIN 0020AA	KQ	26,660.00	
			26,660.00
CLIN 0021AA	KW	0.00	
		1144	0.00
		(Malescott)	0.00
CLIN 0021AB	KV	0.00	
CLIN 0021AB	LB	0.00	
CLIN 0021AB	KX	0.00	
CLIN 0021AB	KY	0.00	
			0.00
CLIN 0021AC	KZ	0.00	
CLIN 0021AC	LA	0.00	
			0.00
CV DV 0000	77377	0.00	
CLIN 0022	KW	0.00	
			0.00
CLIN 0023	KX	60,000.00	
CLIN 0023	KY	25,000.00	
CLIN 0023	KV	65,000.00	
CLIN 0023	LB	12,500.00	
CLIN 0023	LF	10,000.00	
CLIN 0023	LR	\$125,000.00	297,500.00
		-	297,300.00
CLIN 0024	LA	13,508.00	
CLIN 0024	LG	62,000.00	
CLIN 0024	KZ	25,000.00	
CLIN 0024	KW	20,000.00	
<b>CLIN 0024</b>	LP	83,200.00	
			203,708.00
CLIN 0025	LE	1,173,850.00	
CLIN 0025	LM	1,080,404.00	
CLIN 0025	MA	0.00	
			2,254,254.00
CLIN 0026	LN	630,061.00	
		·	630,061.00
CL DI 0007	1.7	1 751 204 00	
CLIN 0027	LZ	1,751,384.00	1,751,384.00
			-,,

CLIN 0028	LM	329,972.00	
CLIN 0028 CLIN 0028	MA	· · · · · · · · · · · · · · · · · · ·	
		2,982,442.00	
CLIN 0028	MG	6,262,095.00	
CLIN 0028	MU	\$7,864,499	
			17,439,008.00
CLIN 003001*	MX	\$52,974,283.00	

^{*} CLIN 0030 has been established for the sole purpose of obligating GFEBS funding for performance of SubCLIN 0017AA. Informational SubCLINs under CLIN 0030 will be established each time additional GFEBS funding is obligated. For pruposes of this funding update, funding obligated under CLIN 0030 will also be reflected under SubCLIN 0017AA and should not be counted twice with regards of the total contract funding obligated.

(End of Summary of Changes)