

UNCLASSIFIED

**Department of Defense**  
**iscal Year (FY) 2012 Budget Request**  
**Yf m201%**



**Air Force**

*Justification Book Volume II*

**AIRCRAFT PROCUREMENT, Air Force - 3010**

UNCLASSIFIED



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**P-1M MODIFICATION REPORT – 2012 PB**

02/05/2011

<u>AIRCRAFT</u>	<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>PRIOR</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>Total FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>	<u>COST TO GO</u>
B-2	P-S	8880	ENGING FAN BLADES SAFETY MOD	0.2											
<b>TOTAL FOR CLASS P-S</b>				0.2											
	P	_2035	EHF SATCOM Increment 2											197.7	603.9
		_7646	Proximity Sensor Logic Unit PROM Replacement	4.1											
		110024	ALTERNATE HIGH FREQUENCY MATERIAL PROGRAM (AHFMP)	73.9	1.1										
		110025	MK82 JDAM / SMART BOMB RACK ASSEMBLY	1.8											
		110026	EHF SATCOM & Computers				29.5		29.5	36.6	28.7	10.0	6.3		
		110028	F118 DIGITAL ELECTRONIC CONTROL (DEC)	2.9											
		110030	AFT DECK CRACKS	33.4											
		110031	B-2 Trainer System Upgrade	26.9	5.9	11.2	5.2		5.2	5.3	6.3	6.4	6.5		
		110032	LINK 16/CID/IFR	92.4							0.5	0.4	0.4		
		110033	RADAR SYSTEM MODIFICATION	346.9	191.3	9.0	3.3		3.3						
		110035	LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS	23.8	22.7	32.8	2.6		2.6	2.7	2.9	5.3	5.7	0.0	0.0
		110039	OGADS Oxygen Monitor Controller Upgrade	2.2											
		110040	B-2 Massive Ordnance Penetrator (MOP) Integration		14.9	7.8									
		110043	B-2 Adaptable Communications Suite (ACS)	14.4	2.8										
		110044	B-2 Defensive Management System (DMS)												775.7

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		8881	MODE 5/ MODE S IFF							2.7	2.8	2.8	2.9		
		99999U	B-2 Low Cost Engine Modifications	5.4	0.6	0.6	0.4		0.4	0.4	1.6	1.6	1.7		
		99999X	LOW COST MODIFICATIONS	12.3	1.9	2.0	0.4		0.4	0.4	2.6	2.6	2.6		
		T8137	UHF SATCOM UPGRADE	23.5											
		Z88888	ADJUSTMENTS		5.9										
<b>TOTAL FOR CLASS P</b>				663.9	247.1	63.4	41.3		41.3	48.1	45.4	29.3	26.1	197.7	1379.6
<b>TOTAL FOR AIRCRAFT B-2</b>				664.1	247.1	63.4	41.3		41.3	48.1	45.4	29.3	26.1	197.7	1379.6

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B-1	P	_2134	Integrated Data Acquisition Recorder System (IDARS)	2.1											
		_3944	ALQ-161A PREPROCESSOR AVIONICS CONTROL UNIT	4.4											
		10407A	AFT DC POWER UPGRADE	0.9											
		197500	M SOGS	0.0											
		3150-R	NAVSTAR GPS - COMM UPGRADE (A/J RADIO)	6.0											
		4252	AVIONICS COMPUTERS	15.6											
		4280	FULLY INTEGRATED DATA LINKS			51.5	68.4		68.4	64.7	48.2	35.5	49.5	53.9	59.2
		4284	CITS UPGRADE			17.6	21.1		21.1	20.5	19.0	13.0	16.6	16.9	27.2
		4285	Gyro Stabilization System (GSS)	33.4	9.6	12.5	8.0		8.0	2.4					
		4286	Inertial Navigation System (INS)			20.1	30.9		30.9	23.7	11.6				
		4288	Wheel&Brake Fuses		8.9	2.4									
		4289	ENGINE FEED-LINE	0.6	0.0	1.4									
		4291	B-1 TRAINING SUPPORT		0.4	0.4	0.3		0.3	0.4	0.4	0.4	0.4		
		4333	FIRE WARNING AND EXTINGUISHING PANEL	5.1											
		5013	RF TOWED DECOY SYSTEMS ALE-50	14.0											
		5047	SIMULATOR UPDATES	11.9											
		5048	WIND CORRECTED MUNITIONS DISPENSER	1.8											
		5820	COMMUNICATION UPGRADE	0.7											

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		5821	DEFENSE AVIONICS UPGRADE	0.5											
		5822	WEAPONS UPGRADE	0.5											
		6039	F101 DIGITAL ENGINE CONTROL (DEC)	0.4											
		6882	Digital Communications	2.8	0.0	1.4	0.1		0.1						
		7152	AVIONICS UPGRADE	0.4											
		7242	AN/ALQ-161A BAND 8 RF SOURCE	9.8											
		8411	RADAR IMPROVEMENT UPGRADE		59.4	63.7	30.1		30.1	12.1	2.0	2.6			
		8421	LINK 16	6.0											
		8423	B-1 Link 16 Crypto								1.3	1.3	1.1		
		8495	AN/ALQ-161A DIRECTION FINDING ENCODER	2.0											
		8525	AN/ALQ-161A JAMMER ALLOCATION LOGIC SUBSYSTEM	0.2											
		8970	AN/ALQ-161A TAIL WARNING FUNCTION	5.0											
		8971	VERTICAL SITUATION DISPLAYS			25.2	39.0		39.0	49.3	38.1	28.3	41.1	41.2	64.5
		8972	AUTOMATIC TEST EQUIPMENT	0.5											
		8973	LOWER RUDDER HYDRAULIC SYSTEM PROTECTION	0.3											
		8977	Utility Power Distribution Panels Installation	0.1											
		92293	F101 C-CLIP	0.0											
		92294	LAPTOP CONTROLLED TARGETING POD	58.5	3.3	3.2									

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		92296	External Hard Point Modification	3.1											
		92297	Pylon for External Stores	16.3	17.2	8.5									
		99999E	LOW COST MOD ENGINE UPGRADES	1.4											
		99999X	LOW COST MODIFICATIONS	0.0		0.7	0.1		0.1						
		DC101	FM IMMUNITY	0.0											
		Z88888	ADJUSTMENTS		0.0										
<b>TOTAL FOR CLASS P</b>				204.7	98.8	208.6	198.0		198.0	173.1	120.6	81.1	108.7	112.0	150.9
<b>TOTAL FOR AIRCRAFT B-1</b>				204.7	98.8	208.6	198.0		198.0	173.1	120.6	81.1	108.7	112.0	150.9

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B-52	P	3143	COMMON STRATEGIC ROTARY LAUNCHER (CSRL)	5.8											
		3146	Yaw and Pitch Electronic Control Unit (YECU/PECU) digital system	1.6											
		3147	Enhanced Data Link (EDL)	3.6											
		3148	MLR-2020 Instrument Landing System (ILS)	3.8											
		3150	NAVSTAR GLOBAL POSITIONING SYSTEM	7.7											
		3263	INTEGRATED CONV STORES MGMT SYS	33.4											
		3264	ELECTRO-OPTICAL VIEWING SYSTEM (EVS)	0.2											
		3265	B-52 Anti-Skid Replacement							4.6	6.7	5.9	0.9		
		3266	Strategic Radar Replacement (SR2)										63.9		
		3309	B-52 Extremely High Frequency (EHF)										5.9	0.0	
		3310	B-52 CONECT	7.0	2.0	41.5	82.5		82.5	94.3	138.3	118.2	39.2	121.6	126.2
		3311	FUEL ENRICHMENT MODIFICATION (FEM)	0.2											
		4260	ADVANCED WEAPON INTEGRATION	6.5	16.4	24.5				20.0	21.0				
		4270	ECM IMPROVEMENT	109.5											
		4371	GPS TACAN	10.5											
		4693	AVIONICS MIDLIFE IMPROVEMENTS (AMI)	9.5											
		6883	ENGINE DRIVEN HYDRAULIC PUMP	0.4											
		6885	B- 52 TRAINERS		2.2	2.2	1.7		1.7	1.9	2.3	2.3	2.4		

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		6886	B-52 Structures				0.1		0.1						
		6887	System Effectiveness and Evolutionary Requirements					0.1	0.1						
		9709	Mode S/5 IFF					8.7	8.7	9.1	0.0				
		99999X	LOW COST MODIFICATIONS	2.9	1.4	0.8	0.8		0.8	0.4	0.0	0.6	0.4		
		Z88888	ADJUSTMENTS		39.3										
<b>TOTAL FOR CLASS P</b>				202.5	61.3	69.1	93.9		93.9	130.4	168.3	127.1	112.6	121.6	126.2
<b>TOTAL FOR AIRCRAFT B-52</b>				202.5	61.3	69.1	93.9		93.9	130.4	168.3	127.1	112.6	121.6	126.2

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A-10	P-S	99999A	LOW COST SAFETY MODIFICATIONS	0.3											
<b>TOTAL FOR CLASS P-S</b>				0.3											
	P	37120	DIGITAL DATA LINK	44.9	8.9	0.7	0.7		0.7						
		6907	TEMS/ADR				6.7		6.7	7.3					
		7856	MODE S/5	21.2	6.9	4.4									
		9601	ONBOARD OXYGEN GENERATING SYSTEM (OBOGS)	8.3											
		9604	Extended Duration Covert Infrared Countermeasures System	37.2	10.0	16.5									
		9803	A-10 Secure Line of Sight/Beyond Line of Sight	76.8	0.0										
		9804	A-10 Wing Replacement Program	235.5	199.7	152.0	145.8		145.8	144.2	134.5				
		9805	PRECISION ENGAGEMENT	339.1	35.7	8.3									
		99999X	LOW COST MODIFICATIONS	0.4	0.5	0.0									
<b>TOTAL FOR CLASS P</b>				763.4	261.7	181.9	153.1		153.1	151.4	134.5				
<b>TOTAL FOR AIRCRAFT A-10</b>				763.7	261.7	181.9	153.1		153.1	151.4	134.5				

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F-15	P	_1200	F-15C Avionics Replacement		7.8	31.1	8.7		8.7						
		_1202	F-15E AESA Radar		0.0	89.8	99.8		99.8	151.2	162.7	183.8	218.7	16.1	12.3
		_1202B	Advanced Display Core Processor, ADCP II-E							2.1	8.7	9.6	9.8	0.2	
		_2222	32J Fuel Manifold Clamping System	1.6											
		10211B	SECONDARY POWER UPGRADE A-D	0.3											
		1203	C/D Secondary Power System		1.3	1.3	1.2	0.0	1.2	1.2	1.6	0.0	0.0	0.0	0.0
		1204	E Secondary Power System		1.6	1.6	1.5	0.0	1.5	1.5					
		1205	:Advanced Display Core Processor, ADCP II-C				0.0			15.4	26.2	25.5	25.7	1.7	0.2
		1207	F-15E M-Code GPS									3.0	4.3	4.5	2.4
		1209	C/D Flight Data Recorder (FDR)		10.5	10.7	10.3		10.3	2.0	2.0				
		1210	F-15E Flight Data Recorder (FDR)		10.6	11.8	10.9		10.9	1.8	1.7				
		19203B	F100-220E ENGINE UPGRADE	17.9											
		6106	SECONDARY POWER UPGRADE	0.0											
		6145	FUEL NOZZLE DAMPING	0.3											
		6157	Antenna Test Station	16.7	2.5										
		6158	F-15C/D APG-63(V)3 radar upgrade	365.4	31.6	96.6	46.4		46.4	116.3	128.8	125.4	123.8	5.7	3.7
		8049	APG-63V(1) RADAR UPGRADE	20.3											
		8250	FIGHTER DATA LINK (FDL)	27.8											

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		8265	PROGRAMMABLE ARMAMENT CONTROL SET	6.8											
		8314	AIR DATA PROCESSOR	4.9											
		8352	JOINT HELMET-MOUNTED CUEING SYSTEM	28.3											
		8353	F-15E -JOINT HELMET-MOUNTED CUEING SYSTEM	33.0	32.7										
		8357	ADVANCED DISPLAY CORE PROCESSOR (ADCP)	28.5											
		8419	ALQ 135, BAND 1.5	43.3											
		8660	BOL	8.4											
		8662	AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	1.8	1.0	1.0	0.8		0.8	0.9	1.0	1.1	1.1		
		8701	F-15 C/D GPS	2.0											
		8703	F-15 A/D DIGITAL VIDEO RECORDER		5.4	13.7	2.0		2.0						
		8705	F-15E DIGITAL VIDEO RECORDER	17.0	6.1	3.6	2.6		2.6	1.5					
		8742	TEWS INTERMEDIATE SUPPORT SYSTEM (TISS) A-E	20.6	2.5	8.7									
		8745	IFF A-D	46.5											
		8746	IFF E	21.1											
		8753	F-15 NVIS	1.0											
		8755	E IFF MODE 5		14.0	29.6	14.0		14.0						
		8756	Link 16 Cryptographic Modernization (CMI)								6.3	6.3	6.4		
		8793	F-15E BLOS/SLOS	52.1	7.5										

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		8794	F-15C/D BLOS				24.1		24.1	33.5					
		99999E	MISC ENGINE UPDATE MODS	1.5											
		99999U	LOW COST RETROFIT MODS	3.8	0.0	2.0	0.0		0.0						
		99999X	LOW COST MODIFICATIONS	4.9	0.0	0.8	0.0		0.0						
		Z88888	ADJUSTMENTS		17.2										
<b>TOTAL FOR CLASS P</b>				775.7	152.2	302.2	222.4	0.0	222.4	327.5	339.1	354.7	389.9	28.2	18.7
<b>TOTAL FOR AIRCRAFT F-15</b>				775.7	152.2	302.2	222.4	0.0	222.4	327.5	339.1	354.7	389.9	28.2	18.7

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F-16	P-S	618270	DIGITAL FLIGHT CONTROL COMPUTER	2.9	0.6	1.2	2.0		2.0	1.0	1.0				
		F19424	F110 ENGINE SERVICE LIFE EXTENSION PROGRAM (SLEP)	291.2	25.9										
		F19427	F-110 Engine Fire Seal Mod				1.1		1.1	0.8	0.7	0.1			
<b>TOTAL FOR CLASS P-S</b>				294.1	26.5	1.2	3.2		3.2	1.7	1.6	0.1			
	P	4260	ADVANCED WEAPON INTEGRATION	51.8											
		602043	BLOCK 42 ANG RE-ENGINE	194.9	46.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		602149	MMC Upgrade 7000A	80.6	36.9	16.6	0.5		0.5						
		602150	MODULAR MISSION COMPUTER MMC-CCIP	508.2	1.3										
		6023	FALCON STAR	332.2	38.5	31.7	22.9		22.9	13.7					
		602600	F-16 LEGACY STRUCTURAL SLEP										19.8		
		604050	EMBEDDED GPS/INS (EGI)	21.3	21.8	18.9	9.1		9.1						
		610250	COLOR DISPLAYS - CCIP	276.1	0.5										
		610430	Commercial Fire Control Computer	9.9											
		612130	ADVANCED IDENTIFICATION FRIEND OR FOE	35.7											
		612150	AIR-TO-AIR INTERROGATOR	113.5	31.4										
		612151	Mode 5 Identification			38.6	16.6		16.6						
		612152	MODE S IDENTIFICATION	20.2	15.8	6.9	3.6		3.6						
		618210	BLK 40/50 SECURE LINE OF SIGHT RADIO	77.1	2.0	1.7	0.8		0.8	0.3					

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		618220	BLK 40/50 BEYOND LINE OF SIGHT RADIO	67.7	0.0	18.3	6.5		6.5						
		618230	BLK 30 SECURE LINE OF SIGHT RADIO	18.4	5.3	2.4									
		618240	BLK 30 BEYOND LINE OF SIGHT RADIO	12.9	12.3	5.4	1.9		1.9						
		624050	ADVANCED DATA TRANSFER EQUIPMENT	9.1	4.3	15.4									
		6300	ON BOARD OXYGEN GENERATION SYSTEM (OBOGS)	36.1	3.1	3.7	4.7		4.7	1.4					
		650050	JOINT HELMET MOUNTED CUEING SYS - CCIP	260.1	8.0										
		661650	LINK 16 - CCIP	173.2	0.2										
		661652	Link 16 Crypto								8.3	8.3	8.0		
		8662	AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	73.6	4.6	4.7	3.6		3.6	4.2	4.9	5.0	5.1		
		99999E	MISC ENGINE UPDATE MODS	12.6											
		99999X	LOW COST MODIFICATIONS	13.2	1.6	1.9	0.0		0.0	0.1	0.2	0.7	0.7		
<b>TOTAL FOR CLASS P</b>				2398.4	234.1	166.0	70.2	0.0	70.2	19.6	13.5	14.1	33.6	0.0	0.0
<b>TOTAL FOR AIRCRAFT F-16</b>				2692.5	260.7	167.2	73.3	0.0	73.3	21.4	15.1	14.1	33.6	0.0	0.0

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F-22	P	F22001	COMMON CONFIGURATION	436.1	2.4	224.3	6.1		6.1	11.1	10.6	7.2			
		F22003	INCREMENT3.1	70.7	49.0	35.0	49.0		49.0	40.8	10.4	10.3	4.4		
		F22004	Low Cost Mod Weapon System	11.8	1.9	1.9	1.2	0.0	1.2	1.3	1.3	1.3	1.4	0.0	
		F22006	Reliability & Maintainability Maturation Program	258.4	106.2	115.9	106.9		106.9	107.7	122.2	95.6	91.8	60.6	
		F22013	Trainer Low Cost Mod	2.0											
		F22014	F119 Engine Modifications	18.5	0.8	18.4	17.3		17.3	67.6	66.5	26.4	23.0		
		F22019	INCREMENT 3.2								122.6	83.8	124.3	193.5	37.9
		F22021	Arresting Gear System				2.5		2.5	5.2					
		F22022	Structures Retrofit Plan		16.6	49.5	37.5		37.5	44.3	43.6	41.1	23.1		
		F22024	Trainers Modernization	13.3		45.8	8.8		8.8	3.4	18.3	9.0	3.6		
		F22027	KOV20			1.5	2.6		2.6	1.8		3.3	5.0	2.1	
		F22028	AGCAS								17.1	34.7	43.2	11.1	5.3
		Z88888	ADJUSTMENTS		-0.1										
<b>TOTAL FOR CLASS P</b>				810.8	176.7	492.2	232.0	0.0	232.0	283.3	412.6	312.7	319.7	267.3	43.2
<b>TOTAL FOR AIRCRAFT F-22</b>				810.8	176.7	492.2	232.0	0.0	232.0	283.3	412.6	312.7	319.7	267.3	43.2

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F-35	P	F3512	JSF F35 Mod						123.9						
<b>TOTAL FOR CLASS P</b>									123.9						
<b>TOTAL FOR AIRCRAFT F-35</b>									123.9						

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C-5	P	14220B	MLG/DOOR ACTUATING SYSTEM (R&M)	3.3											
		15203B	MADARS REPLACEMENT	42.4											
		3150	NAVSTAR GLOBAL POSITIONING SYSTEM	33.3											
		3455	AIRLIFT DEFENSIVE SYSTEMS	6.9											
		6019	MADARS II MULTIPLEXER PROCESSOR UPGRADE	1.2											
		6030	REDUCED VERTICAL SEPARATION MINIMA	0.0											
		6032	COMPARTMENT FLOOR CORROSION PREVENTION	2.0	0.2	2.0	0.6		0.6	0.5					
		6037	TF39 ENGINE HIGH PRESSURE TURBINE	23.6											
		6038	AVIONICS MODERNIZATION PROGRAM	627.7	60.8										
		6103	HYDRAULIC SURGE CONTROL -EASY OPEN VALVE	0.0											
		6150	STANDBY ATTITUDE INDICATOR	1.5											
		6151	FUEL FLOW INDICATOR	1.2											
		6152	ANTI-SKID RELIABILITY UPGRADE PROGRAM	0.3											
		6154	C-5 RELIABILITY ENHANCEMENT & REENGINEING PROGRAM (RERP)	411.8	437.9										
		7788	FUEL FLOW TRANSMITTER	0.1											
		8097	SIM UPGRADE	3.0											
		8629	LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)	176.3	66.8	78.5	3.2	59.3	62.5	3.1	5.2	5.3	5.4	1.4	

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		8662	AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	4.8											
		8719	EMERGENCY DC POWER GENERATOR	5.8											
		8763	MADARS III	1.6											
		8789	AN/AAR-47 MISSILE WARNING SYSTEM SMART CABLE	0.4											
		8869	Defensive System Installation	17.0	4.8										
		8942	ELT Beacon Change	3.0						0.0	0.0	0.0	0.0	0.0	0.0
		8965	C-5 Fleet Blk Upgrade 01			21.3	7.6		7.6	6.0					
		96001	STATION KEEPING EQUIPMENT	0.8											
		96003	AIRCRAFT FORMATION LIGHTING	0.3											
		96004	8.33 RADIO	2.8											
		99999X	LOW COST MODIFICATIONS	4.7	0.1	1.8	0.4		0.4	0.4	1.0	1.0	2.0		
		DC101	FM IMMUNITY	1.7											
		Z88888	ADJUSTMENTS		-47.0										
<b>TOTAL FOR CLASS P</b>				1377.8	523.6	103.7	11.7	59.3	71.0	10.1	6.2	6.3	7.4	1.4	0.0
<b>TOTAL FOR AIRCRAFT C-5</b>				1377.8	523.6	103.7	11.7	59.3	71.0	10.1	6.2	6.3	7.4	1.4	0.0

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C-5 AMP	P	6038	AVIONICS MODERNIZATION PROGRAM						33.6						
<b>TOTAL FOR CLASS P</b>									33.6						
<b>TOTAL FOR AIRCRAFT C-5 AMP</b>									33.6						

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C-5 RERP	P	6154	C-5 Reliability Enhancement and Re-Engining Program			676.5	851.9		851.9	936.0	1012.0	330.9			
<b>TOTAL FOR CLASS P</b>						676.5	851.9		851.9	936.0	1012.0	330.9			
<b>TOTAL FOR AIRCRAFT C-5 RERP</b>						676.5	851.9		851.9	936.0	1012.0	330.9			

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C-9	P	_2045	Hush Kit	1.4											
		99999S	SERVICE BULLETINS	0.0	0.0	0.0	0.0		0.0						
		99999X	LOW COST MODIFICATIONS	0.0	0.0	0.0	0.0		0.0						
<b>TOTAL FOR CLASS P</b>				1.4	0.0	0.0	0.0		0.0						
<b>TOTAL FOR AIRCRAFT C-9</b>				1.4	0.0	0.0	0.0		0.0						

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C-17	P	_2000	Pylon Stub FFLZ, FF, Translating Fairing	18.0	16.2	23.4	12.9		12.9	22.8	23.3	26.8	4.3	4.5	
		_2590	ELT Frequency Change			1.2	2.0		2.0	2.1	2.2	0.8			
		_2633	MFOQA			1.9	1.4		1.4	1.5	1.4	1.0			
		_2703	IFF GATM Enhanced Mode S	5.0											
		_3080	Replacement Heads Up Display (RHUD)									2.8	23.9	28.5	148.9
		_359	C-17 Sim Threat Generator	4.3	3.2	3.3	1.2		1.2						
		_8962	Block 13 to 17 Retrofit	422.8	32.6	200.3	108.8		108.8	155.9	87.2	75.5	20.8		
		0399	AIRLIFT DEFENSIVE SYSTEMS-COUNTERMEASURES	0.5											
		1508	IFF GATM Mode 5				2.6		2.6	5.0	13.8	16.9	17.1	17.7	32.6
		2901	NEXT GEN CNS/ATM									1.1	5.2	17.2	151.2
		6402	OBIGGS II	47.6		26.5	12.0		12.0	15.4	30.8	39.9	49.3	50.1	166.6
		6412	Extended Range Retrofit/OBIGGS II	125.7		34.6	28.0		28.0	10.3	53.4	69.7	105.7	114.6	551.4
		8629	LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)	825.0	267.9	283.0	32.7		32.7	113.2	118.8	119.1	119.8	86.5	26.4
		9736	Communication and Navigation Capability								0.6	0.0	0.2	0.2	1.1
		9739	ILS Identification and Flight Control Computer Updates				0.6		0.6	1.5	1.5	1.5	1.6	1.6	2.6
		99999X	LOW COST MODIFICATIONS	2.0	2.0	2.0	0.1		0.1	2.0	2.0	2.0	2.0	2.0	
		Z88888	ADJUSTMENTS		-150.0										

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<b>TOTAL FOR CLASS P</b>				1451.0	172.0	576.1	202.2		202.2	329.9	334.8	357.0	349.7	322.9	1080.9
<b>TOTAL FOR AIRCRAFT C-17</b>				1451.0	172.0	576.1	202.2		202.2	329.9	334.8	357.0	349.7	322.9	1080.9

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C-21	P	3149T	TRAFFIC ALERT & COLLISION AVOIDANCE SYSTEM	0.9											
		3149TC	TCAS CHANGE 7 UPGRADE	0.4											
		99999S	SERVICE BULLETINS	0.9	0.1	0.1	0.1		0.1	0.1	0.2	0.1	0.1		
		99999X	LOW COST MODIFICATIONS	1.0	0.4	0.2	0.2		0.2	0.1	0.0	0.1	0.1		
<b>TOTAL FOR CLASS P</b>				3.1	0.6	0.3	0.3		0.3	0.2	0.2	0.2	0.2		
<b>TOTAL FOR AIRCRAFT C-21</b>				3.1	0.6	0.3	0.3		0.3	0.2	0.2	0.2	0.2		

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C-32	P	0707	COMM MOD	45.3	0.0	10.4	10.4		10.4	1.0					
		9606	COMMUNICATIONS UPDATE	22.9											
		99999G	SERVICE BULLETIN - GATM	0.0											
		99999S	SERVICE BULLETINS	0.1	0.0	0.2	0.0		0.0	0.0	0.0	0.0	0.0		
		99999SG	SERVICE BULLETINS - ANG	1.6	0.9	0.7	0.9		0.9	0.9	0.9	0.9	0.9		
		99999X	LOW COST MODIFICATIONS	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		
		99999XG	LOW COST MODS - ANG	1.6	0.8	0.8	0.8		0.8	0.8	0.8	0.9	0.9		
<b>TOTAL FOR CLASS P</b>				71.6	1.7	12.1	12.2		12.2	2.7	1.8	1.8	1.8		
<b>TOTAL FOR AIRCRAFT C-32</b>				71.6	1.7	12.1	12.2		12.2	2.7	1.8	1.8	1.8		

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C-37	P	0707	COMM MOD	1.0		11.7	21.5		21.5	13.0	17.8	18.2	9.7		
		99999S	SERVICE BULLETINS	0.6	0.3	0.3	0.3		0.3	0.3	0.3	0.3	0.4		
		99999X	LOW COST MODIFICATIONS	0.2	0.1	0.1	0.1		0.1	0.2	0.2	0.2	0.1		
		Z88888	ADJUSTMENTS		0.0										
<b>TOTAL FOR CLASS P</b>				1.8	0.4	12.2	22.0		22.0	13.5	18.3	18.7	10.2		
<b>TOTAL FOR AIRCRAFT C-37</b>				1.8	0.4	12.2	22.0		22.0	13.5	18.3	18.7	10.2		

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<u>AIRCRAFT</u>	<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>PRIOR</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>Total FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>	<u>COST TO GO</u>
C-130 AMP	P	8517	C-130 AVIONICS MODERNIZATION PROGRAM (AMP)				235.6		235.6	248.7	372.8	557.2	699.5	739.1	1459.2
<b>TOTAL FOR CLASS P</b>							235.6		235.6	248.7	372.8	557.2	699.5	739.1	1459.2
<b>TOTAL FOR AIRCRAFT C-130 AMP</b>							235.6		235.6	248.7	372.8	557.2	699.5	739.1	1459.2

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GLIDER MODS	P	6198	GLIDER PARTS LICENSURE	1.3											
		99999X	LOW COST MODIFICATIONS	2.8	0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.1		
<b>TOTAL FOR CLASS P</b>				4.1	0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.1		
<b>TOTAL FOR AIRCRAFT GLIDER MODS</b>				4.1	0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.1		

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T-6	P	37222	Landing Gear Shimmy				0.3		0.3	0.7	0.8	0.8	0.8	0.8	3.8
		37223	Emergency Locator Transmitter	1.4											
		37224	Power Control Lever			0.1	1.5		1.5	1.8	2.8	0.5			
		37225	OBOGS Low Pressure Switch and Concentrator		0.3	0.8	0.8		0.8	0.2					
		37226	Landing Gear Door Spring Housing, Bellcrank & Pushrods	2.8		1.9	0.8		0.8						
		37227	IDARS-MFOQA		3.9										
		37229	ATD Visual System Retrofit			5.6	5.7		5.7	5.2	4.0	3.5			
		9847	Avionics Obsolesence	8.0	1.3	2.5	2.5		2.5	2.3	0.1	2.8	5.6	2.9	5.9
		9857	Traffic Advisory System	8.9	9.4	9.5	1.5		1.5						
		9871	COCKPIT UPGRADES	6.0		0.0									
		9875	LANDING GEAR HANDLE REDESIGN			0.2	1.4		1.4	2.6	2.9	0.6			
		9876	AIRFRAME STRUCTURAL IMPROVEMENTS	7.6	5.7	2.1	0.5		0.5	3.0	0.0	3.3	4.8		
		99999X	LOW COST MODIFICATIONS	3.4	1.4	1.9	0.1		0.1	0.4	0.1	1.5	2.0		
		Z88888	ADJUSTMENTS		1.6										
<b>TOTAL FOR CLASS P</b>				38.2	23.6	24.6	15.1		15.1	16.3	10.6	12.9	13.2	3.6	9.7
<b>TOTAL FOR AIRCRAFT T-6</b>				38.2	23.6	24.6	15.1		15.1	16.3	10.6	12.9	13.2	3.6	9.7

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T-1	P	8996	COMBAT SYSTEMS OFFICER (CSO) TRAINING	29.0	0.0	0.0									
		99999X	LOW COST MODIFICATIONS	0.3	0.0	0.1	0.2		0.2	0.3	0.3	0.3	0.3		
<b>TOTAL FOR CLASS P</b>				29.2	0.0	0.1	0.2		0.2	0.3	0.3	0.3	0.3		
<b>TOTAL FOR AIRCRAFT T-1</b>				29.2	0.0	0.1	0.2		0.2	0.3	0.3	0.3	0.3		

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T-38	P-S	14207B	COCKPIT ENCLOSURE (PC)	0.2											
		99999A	LOW COST SAFETY MODIFICATIONS	0.1	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		
<b>TOTAL FOR CLASS P-S</b>				0.3	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		
	P	37228	T-38 IMPROVED BRAKE SYSTEM PROGRAM	1.7											
		6029	AVIONICS UPGRADE	187.8											
		6034	T-38 PROPULSION MODERNIZATION PROGRAM	643.0	8.9										
		6087	T-38 ESCAPE SYSTEM UPGRADE	131.3	16.6	6.6	2.9		2.9	2.2					
		6088	Pacer Classic III		30.6	21.7	26.0		26.0	26.7	23.8	24.2	16.5	23.2	
		6089	VDTS/SBIS				2.1		2.1	2.1					
		99999X	LOW COST MODIFICATIONS	2.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		
		Z88888	ADJUSTMENTS		4.8										
<b>TOTAL FOR CLASS P</b>				965.9	60.9	28.3	31.0		31.0	31.1	23.8	24.2	16.5	23.2	
<b>TOTAL FOR AIRCRAFT T-38</b>				966.2	60.9	28.3	31.0		31.0	31.1	23.8	24.2	16.5	23.2	

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KC-10	P-S	99999A	LOW COST SAFETY MODIFICATIONS	0.0	0.0	0.0	0.0		0.0						
<b>TOTAL FOR CLASS P-S</b>				0.0	0.0	0.0	0.0		0.0						
	P	3149T2	TCAS AND TAWS	8.1											
		3150	NAVSTAR GLOBAL POSITIONING SYSTEM	20.8											
		4369	REPLACE PYLONS 1&3 FORWARD MOUNT TRUSS ASSEMBLY	0.0											
		7725	THRUST REVERSER AIRWORTHINESS DIRECTIVE	4.2											
		7726	CNS/ATM				17.4		17.4	68.7	67.4	34.0			
		7727	Boom Control Unit (BCU)			3.8	3.9		3.9						
		7728	Mode 5							4.6	4.3	1.2	0.7		
		7729	Visual System Replacement (VSR)		6.3	6.4									
		7730	UHF SATCOM Antenna			3.5									
		9709	GATM Phase II	47.9											
		99999S	SERVICE BULLETINS	3.8	3.1	3.6	5.9		5.9	6.7	4.0	4.3	3.9		
		99999X	LOW COST MODIFICATIONS	3.9	0.0	0.0	0.0		0.0	0.0	0.0	0.0			
		SIM-10	SIMULATOR UPGRADE (KC-10 )	36.0											
		Z88888	ADJUSTMENTS		0.0										
<b>TOTAL FOR CLASS P</b>				124.7	9.4	17.3	27.2		27.2	79.9	75.6	39.5	4.6		

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<b>TOTAL FOR AIRCRAFT KC-10</b>				124.7	9.4	17.3	27.2		27.2	79.9	75.6	39.5	4.6		

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C-12	P	6140	ELECTRONIC FLIGHT INSTRUMENTATION SYSTEM (EFIS)	2.9											
		6160	DEFENSIVE SYSTEMS			5.9									
		99999S	SERVICE BULLETINS	0.3	0.5	1.5	1.6		1.6	1.7	1.7	1.8	1.9		
		99999X	LOW COST MODIFICATIONS	0.7	0.0	0.2	0.2		0.2	0.2	0.2	0.2	0.2		
<b>TOTAL FOR CLASS P</b>				3.8	0.5	7.6	1.8		1.8	1.9	1.9	2.0	2.0		
<b>TOTAL FOR AIRCRAFT C-12</b>				3.8	0.5	7.6	1.8		1.8	1.9	1.9	2.0	2.0		

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MC-12W	P	9144	C-12 ISR Modifications		176.8	10.8	16.8	17.3	34.1	17.1	31.9	23.2	12.5		
		Z88888	ADJUSTMENTS		0.0										
<b>TOTAL FOR CLASS P</b>					176.8	10.8	16.8	17.3	34.1	17.1	31.9	23.2	12.5		
<b>TOTAL FOR AIRCRAFT MC-12W</b>					176.8	10.8	16.8	17.3	34.1	17.1	31.9	23.2	12.5		

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C-20	P	0707	COMM MOD	36.5	0.2	0.2									
		99999S	SERVICE BULLETINS	0.6	0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.1		
		99999X	LOW COST MODIFICATIONS	0.4	0.5	0.4	0.1		0.1	0.1	0.1	0.1	0.1		
		Z88888	ADJUSTMENTS		0.0										
<b>TOTAL FOR CLASS P</b>				37.4	0.7	0.7	0.2		0.2	0.2	0.2	0.2	0.2		
<b>TOTAL FOR AIRCRAFT C-20</b>				37.4	0.7	0.7	0.2		0.2	0.2	0.2	0.2	0.2		

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C-25	P	_6638	Airborne Information Management System (AIMS)	26.2	13.9	12.6									
		9331	PRESIDENTIAL DATA SYSTEM	5.9											
		9332	Forward Lower Lobe	0.7	1.1										
		9709	GATM Phase II	6.4											
		9711	C-25 Avionics Modernization Program				0.0		0.0	10.7	0.0		14.7		
		99999S	SERVICE BULLETINS	3.2	0.5	0.5	0.2		0.2	0.3	0.4	0.3	0.4	0.0	
		99999X	LOW COST MODIFICATIONS	0.2	0.1	0.1	0.2		0.2	0.2	0.1	0.1	0.1	0.0	
		Z88888	ADJUSTMENTS		0.0										
<b>TOTAL FOR CLASS P</b>				42.4	15.6	13.2	0.4		0.4	11.2	0.5	0.4	15.1	0.0	
<b>TOTAL FOR AIRCRAFT C-25</b>				42.4	15.6	13.2	0.4		0.4	11.2	0.5	0.4	15.1	0.0	

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C-40	P	0707	COMM MOD	41.6	0.0	10.5									
		8629	LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)	30.7											
		99999S	SERVICE BULLETINS	0.2	0.2	0.1	0.1		0.1	0.1	0.1	0.1	0.1		
		99999X	LOW COST MODIFICATIONS	2.1	0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.1		
<b>TOTAL FOR CLASS P</b>				74.6	0.3	10.7	0.2		0.2	0.2	0.2	0.3	0.3		
<b>TOTAL FOR AIRCRAFT C-40</b>				74.6	0.3	10.7	0.2		0.2	0.2	0.2	0.3	0.3		

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C-130	P-S	99999A	LOW COST SAFETY MODIFICATIONS	0.9	2.0	1.9	0.0		0.0	0.9	0.0	0.6	1.1	1.9	
<b>TOTAL FOR CLASS P-S</b>				0.9	2.0	1.9	0.0		0.0	0.9	0.0	0.6	1.1	1.9	
	P	11130	PODDED RECONNAISSANCE SYSTEM	4.8	3.6										
		17605B	AUTOPILOT/GCAS	48.2											
		18600B	ELECTRICAL SYSTEM UPGRADE	15.6											
		6040	ENGINES	8.0											
		8220	ALR-69 (RWR)	38.3											
		8385	AN/AAQ-22M (FLIR)	10.2											
		8455	INSTALLATION OF AN/APN-241	128.7	0.8	1.3									
		8515	Electronic Propeller Control System (EPCS)	1.1											
		8517	C-130 AVIONICS MODERNIZATION PROGRAM (AMP)	193.8	0.0	170.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		8526	ENHANCED TCAS (TCAS II)	36.2											
		8561	SYNCHROPHASER WIRE (C-130)	6.0											
		8562	C-130 GENERATOR DISCONNECT INSTALLATION WR-98-004	1.5											
		8577	ALE-47 CHAFF AND FLARE DISPENSER	23.1											
		8578	C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)	441.1	55.9	62.7	22.4		22.4	52.1	33.4	13.4	13.6	20.2	167.8
		8579	Mode S & 8.33 MHz Upgrades		28.0										

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		8591	ALR-69 UPGRADE	12.2											
		8629	LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)	553.2	120.4	133.0		154.8	154.8						
		8651	AAR-47 Sensor Upgrade	14.0											
		8678	HC-130 SIMULATOR	35.3											
		8726	USM-464 TESTER MODIFICATION	9.7											
		8731	IR Strobe	0.5											
		9120	AIRBORNE FIRE FIGHTING SYSTEM (AFFS)	28.3											
		9122	APN-241 RADAR - AFSOC	7.8											
		9123	AC-130 KILL CHAIN ARC-231	4.2											
		9126	AC-130 LINK 16 GUNSHIP	11.1											
		9127	MACHINE-TO-MACHINE SITUATIONAL AWARENESS (M2MSA)	1.4											
		9130	AERIAL SPRAY SYSTEM	1.5											
		9131	ASAR FOR 109th AW	10.9											
		9134	NOISE CANCELLATION SYSTEM	8.5	2.4										
		9135	AC-130 OUTER WING REPLACEMENT		0.8	2.1	1.9		1.9	1.1	1.2	1.2			
		9136	AIRBORNE RECONN SYSTEMS	43.5											
		9137	HC-130 8.33 RADIOS		12.6	4.1	3.4		3.4	1.9					
		9139	MOD V IFF				18.2		18.2	6.5	2.5	1.6			

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		9140	C-130 DUAL RAILS	0.5											
		9141	C-130 CRASHWORTHY LOADMASTER SEAT	1.2		8.6									
		9142	Tactics/Threat Generation System		9.0										
		9143	MC Combined CARA/ETCAS	2.0											
		9145	Blue Force Tracker			0.4									
		9146	Armor Plate			2.5		9.2	9.2						
		9147	ENGINE OIL COOLER			3.4									
		9148	Square Window Troop Door			28.4									
		92292	C-130 WINDSCREEN	0.4											
		92299	AFSOC SIMULATOR UPGRADE	6.0											
		99999M	MISC SIMULATOR UPDATES	0.7	0.6	1.5	0.0		0.0	1.9	0.0	0.6	1.9	1.9	
		99999S	SERVICE BULLETINS	0.4	1.9	1.5	0.0		0.0	1.9	0.0	1.9	1.9	1.9	
		99999X	LOW COST MODIFICATIONS	13.6	1.9	1.9	0.0		0.0	1.9	0.0	1.9	1.9	1.9	
		GW111	ELT UPGRADE		13.9										
		SCOUT	ANG SENIOR SCOUT	58.6	18.9										
		Z88888	ADJUSTMENTS		2.9										
<b>TOTAL FOR CLASS P</b>				1782.2	273.6	422.2	45.9	164.0	209.9	67.3	37.1	20.6	19.3	25.9	167.8
<b>TOTAL FOR AIRCRAFT C-130</b>				1783.1	275.6	424.1	45.9	164.0	209.9	68.2	37.1	21.3	20.4	27.8	167.8

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C-130Intel	P-S	SCOUT	ANG SENIOR SCOUT		0.0	14.9	3.6	4.6	8.2	7.2	6.4	6.6	6.7	0.0	0.0
<b>TOTAL FOR CLASS P-S</b>					0.0	14.9	3.6	4.6	8.2	7.2	6.4	6.6	6.7	0.0	0.0
<b>TOTAL FOR AIRCRAFT C-130Intel</b>					0.0	14.9	3.6	4.6	8.2	7.2	6.4	6.6	6.7	0.0	0.0

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C-130J	P	_1377	Block 5.4	13.6											
		_1680	C-130J Tactics Training			3.3									
		_1701	C-130J Block 6.0 Upgrades	10.4											
		_2529	Pure Airblast Fuel Nozzle	0.4											
		_2612	Avionics System and Structural Modifications	8.5	2.9	17.9	4.1		4.1	2.1					
		_5222	BLOCK 8.0									0.0	25.1	112.5	406.2
		_5296	Wind Gust Brake	4.2	4.6	1.7									
		_6298	C-130J BLOCK 7.0 UPGRADES				16.2		16.2	36.6	39.7	61.3	37.1	6.3	
		8629	LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)	12.0		55.3	17.4	28.0	45.4	8.3	8.4	8.6	8.7		
		99999X	LOW COST MODIFICATIONS	5.0	1.0	2.0	0.4		0.4	2.0	1.3	0.5	0.5		
		Z88888	ADJUSTMENTS		0.0										
<b>TOTAL FOR CLASS P</b>				54.1	8.5	80.2	38.2	28.0	66.2	49.0	49.4	70.4	71.5	118.8	406.2
<b>TOTAL FOR AIRCRAFT C-130J</b>				54.1	8.5	80.2	38.2	28.0	66.2	49.0	49.4	70.4	71.5	118.8	406.2

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C-135	P-S	99999A	LOW COST SAFETY MODIFICATIONS	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
<b>TOTAL FOR CLASS P-S</b>				0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
	P	10402B	FUEL SAVINGS ADVISORY SYSTEM (FSAS)	18.1											
		17403B	STANDARD FLIGHT DATA RECORDER	5.4											
		2984X	NUCLEAR HARDENING	0.1											
		3009E	C-135 REENGINE	30.8											
		3042	STANDARD VHF AM/FM RADIO	0.6											
		3149F	FLIGHT DATA RECORDER & COCKPIT VOICE RECORDER	27.0											
		3150PC	PACER CRAG (COMPASS, RADAR, AND GPS)	135.0											
		3156	PACER LINK PH II	92.9											
		3353	HF AUTO COMM PROCESSOR (ACP)	1.8											
		4218	HIGH RELIABILITY MAINT FREE BATTERY	2.9											
		4231	MULTIPOINT REFUELING	16.7											
		4310	INTERPHONE REPLACEMENT	2.9											
		48604B	INSTALLATION OF WINDOW EDGE HEATER	0.3											
		6030	REDUCED VERTICAL SEPARATION MINIMA	26.1											
		8653	BLOCK 45	0.0	0.0	8.4	31.1	0.0	31.1	42.7	48.6	52.1	52.5	63.9	247.5
		8654	ENHANCED MODE S	26.4	1.0	0.5									

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		9610	CINCPAC COMM UPGRADE	0.0											
		9702	8.33 KHZ VHF RADIO	2.6											
		9709	GATM Phase II	808.4	112.3	8.8									
		9737	ELECTROMAGNETIC PULSE	0.4											
		9738	CONTROL COLUMN ACTUATOR BRAKE (CCAB)	41.1											
		9810	LD/HD RIVET JOINT TRAINER	14.9											
		9812	RADOME REPLACEMENT	0.3											
		9813	AIRCRAFT LATRINE MODIFICATION	0.4											
		9815	EMERGENCY VISION ASSURANCE SYSTEM (EVAS)	0.5											
		9817	MODE 5		1.7	12.6	5.8		5.8						
		9818	VOR/ILS ANTENNAE		2.0	2.8	2.7		2.7	2.1	2.4	1.9	1.1		
		9819	Visual System Replacement (VSR)		11.5	9.1	21.1		21.1	12.9					
		9820	APU Oil Cooler	0.0	15.9										
		9821	Electronic Cabinet Covers		1.0										
		99999S	SERVICE BULLETINS	0.0											
		99999X	LOW COST MODIFICATIONS	6.4	1.4	2.0	1.5		1.5	0.7	0.4	0.3	0.4		
		DC101	FM IMMUNITY	0.9											
		SIM135	SIMULATOR UPGRADE	13.4											

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		Z88888	TERRAIN AWARENESS & WARNING SYS (TAWS)  ADJUSTMENTS	20.2		0.0									
<b>TOTAL FOR CLASS P</b>				1296.5	146.9	44.2	62.2	0.0	62.2	58.4	51.3	54.3	54.0	63.9	247.5
<b>TOTAL FOR AIRCRAFT C-135</b>				1296.6	146.9	44.2	62.2	0.0	62.2	58.4	51.4	54.3	54.0	63.9	247.5

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CCALL	P	1001	COMPASS CALL	18.2	29.1	111.6	107.3	12.0	119.3	50.2	56.0	57.6	55.6		
		1002	EC15			75.0	149.3		149.3		107.7				
<b>TOTAL FOR CLASS P</b>				18.2	29.1	186.6	256.6	12.0	268.6	50.2	163.7	57.6	55.6		
		Z88888	ADJUSTMENTS		0.0										
<b>TOTAL FOR CLASS</b>					0.0										
<b>TOTAL FOR AIRCRAFT CCALL</b>				18.2	29.1	186.6	256.6	12.0	268.6	50.2	163.7	57.6	55.6		

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RC-135 DAR	P	_2504	COBRA BALL		16.2	14.3	15.3		15.3	15.8	16.7	17.0	17.5		
		3009R	REENGINE	17.3											
		4263	RIVET JOINT		91.8	81.2	136.8		136.8	139.3	144.7	146.6	149.3		
		4265	COMBAT SENT		9.8	10.0	10.1		10.1	10.3	10.4	10.6	10.8		
		Z88888	ADJUSTMENTS		0.3										
<b>TOTAL FOR CLASS P</b>				17.3	118.2	105.5	162.2		162.2	165.3	171.9	174.3	177.7		
<b>TOTAL FOR AIRCRAFT RC-135 DARP</b>				17.3	118.2	105.5	162.2		162.2	165.3	171.9	174.3	177.7		

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E-3	P	50001P	TSI		1.7	2.8	2.9		2.9	3.1	3.4	3.7	2.0		
		50001T	BLOCK 40/45 UPGRADE	67.1	62.2	172.6	102.4		102.4	153.2	175.2	171.4	199.7	204.3	200.4
		7225	NEXT GENERATION IDENTIFICATION FRIEND OR FOE (IFF)			6.9	23.8		23.8	23.3	26.6				
		7267	NAVWAR	12.6	1.4										
		7268	INTEGRATED DAMA GATM	126.4	3.5	0.3	0.3		0.3						
		8662	AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS		2.4	2.5					2.6	2.7	2.7		
		9707	RM&A MODS	145.0	7.7	10.1	5.5		5.5	7.1	7.7	5.9	1.4		
		9709	GATM Phase II										69.3	996.7	
		Z88888	ADJUSTMENTS		0.1										
<b>TOTAL FOR CLASS P</b>				351.1	79.0	195.2	135.0		135.0	186.6	215.6	183.7	275.2	1201.0	200.4
<b>TOTAL FOR AIRCRAFT E-3</b>				351.1	79.0	195.2	135.0		135.0	186.6	215.6	183.7	275.2	1201.0	200.4

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E-4	P	_3450	Secure Data Crypto							4.1					
		3410	NPES (NC2AIS) E-4B		0.7	0.7	0.7		0.7	0.7	0.7	0.7			
		4383A	Message Processing System (MPS)		8.0	2.8	20.7		20.7	2.6					
		4387	SENIOR LEADERS COMMUNICATION SYSTEM (SLCS)	1.1											
		4389	C-3 UHF DIGITIZATION	4.8	6.1	2.4									
		4390	E-4B KG-3X MODERNIZATION	1.1	0.0	0.5									
		4391	SHF MUX UPGRADE			0.3	0.4		0.4						
		4392	HIGH SPEED DATA 256 (HSD256) UPGRADE	8.6	0.0	7.5									
		4393	STU III Replacement	12.5	0.6		11.5		11.5	13.5					
		4394	Enhanced Mode S	3.1	0.4	0.6									
		4399	MILSTAR Ultra High Frequency (UHF) SATCOM System Replacement		0.3	4.8	7.7		7.7						
		4402	Secure Voice Crypto	0.9	5.8										
		4404	E-4B NAOC Modification Block 1	26.0	46.5										
		4406	Secure, Survivable Voice Communication			7.0	6.0		6.0	6.0		2.5	6.1		
		9709	GATM Phase II	0.0											
		9709D	E-4B COMMUNICATION NAVIGATION SURVEILLANCE/AIR TRAFFIC MANAGEMENT I			1.6	5.1		5.1	3.1	3.1	3.2	3.5		
		99999S	SERVICE BULLETINS		2.5	7.4	3.8		3.8	5.4	5.6	5.2	5.4		

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		99999X	LOW COST MODIFICATIONS		2.0	2.0	2.0		2.0	1.8	2.0	2.0	2.0		
		Z88888	ADJUSTMENTS		0.0										
<b>TOTAL FOR CLASS P</b>				58.1	72.8	37.5	57.8		57.8	37.2	11.5	13.6	17.1		
<b>TOTAL FOR AIRCRAFT E-4</b>				58.1	72.8	37.5	57.8		57.8	37.2	11.5	13.6	17.1		

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E-8C	P	38198	Prime Mission Equipment - Diminishing Manufacturing Sources (PME- DMS)			50.4	3.0		3.0	38.6	48.2	21.3			
		38199	JSTARS Re-engining	86.3	31.3	121.7	13.5		13.5	7.9	13.2				
		38200	RELIABILITY, MAINTAINABILITY, AVAILABILITY (RMA) and FLEET RETROFIT MODS	63.4	1.0	5.2	3.2		3.2	7.8	1.8	2.1	2.3	2.3	
		38201	CRP (COMPUTER REPLACEMENT PROGRAM)	23.0											
		38202	CSACI (COMBINED SATCOM/ABCCC CAPABILITY INSERTION)	5.8											
		38203	KILL CHAIN ENHANCEMENT MODIFICATIONS	99.5	9.0	3.6	1.6		1.6	2.0	2.0	0.6	3.1	3.2	
		38205	JTRS INTEGRATION			0.7	7.2		7.2	9.0	7.2				
		38206	Communications Navigation Surveillance/Air Traffic Management (CNS/ATM)	17.6						7.0		2.1	21.7	22.1	
		38208	Enhanced Land Maritime Mode (ELMM)	18.6	33.6	6.9	0.7		0.7	0.4					
		Z88888	ADJUSTMENTS		0.0										
<b>TOTAL FOR CLASS P</b>				314.1	74.8	188.5	29.1		29.1	72.8	72.3	26.1	27.1	27.6	
<b>TOTAL FOR AIRCRAFT E-8C</b>				314.1	74.8	188.5	29.1		29.1	72.8	72.3	26.1	27.1	27.6	

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H-1	P-S	8748	UH-1N SPAR CAP REPLACEMENT	2.1											
		8846	UH-1N TAIL BOOM REPLACEMENT	11.8	0.0	0.0									
<b>TOTAL FOR CLASS P-S</b>				13.9	0.0	0.0									
	P	_1135	UH-1N SIMULATOR UPGRADE	1.8											
		_2747	UH-1N HIGH BACK SEATS	0.0											
		_2802	HUEY II MODERNIZATION	118.9	16.7	1.0	0.9		0.9	1.0	1.0	1.0	1.0		
		_6019	FORWARD LOOKING INFARED SYSTEM	0.9											
		3149T	TRAFFIC ALERT & COLLISION AVOIDANCE SYSTEM			0.0	3.0		3.0	3.0	4.8	4.8			
		3150	NAVSTAR GLOBAL POSITIONING SYSTEM	0.4											
		8431	EMERGENCY LOCATOR TRANSMITTER	0.0											
		8432	INTEGRATED DATA ACQUISITION RECORDER	0.5											
		8839	NIGHT VISION INSTRUMENT COCKPIT LIGHTING	0.8											
		99999X	LOW COST MODIFICATIONS		1.5	1.5	1.4		1.4	1.5	1.5	1.6	1.6		
		T8123	FLEXPLATE MAIN DRIVESHAFT	1.9											
		Z88888	ADJUSTMENTS		0.0										
<b>TOTAL FOR CLASS P</b>				125.2	18.2	2.5	5.3		5.3	5.5	7.3	7.3	2.6		
<b>TOTAL FOR AIRCRAFT H-1</b>				139.1	18.2	2.5	5.3		5.3	5.5	7.3	7.3	2.6		

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HH-60	P	_1072	Dual Enginer Contingency Power	3.3											
		6590	INSTALLATION OF SELF PROTECTION SYSTEM	9.3											
		8254	ALTITUDE HOLD AND HOVER SYSTEM (AHHS)	15.1		0.0	1.2		1.2	1.2	1.0	1.0			
		8258	FLIR	37.7	44.1	81.0									
		8496	KIRTLAND SIM UPGRADES	37.8											
		8560	SERVICE LIFE EXTENSION PROGRAM	20.1	7.3	4.1	2.7		2.7						
		8563	LIGHTWEIGHT AIRBORNE RECOVERY SYSTEM V12 UPGRADE	12.1	0.0	0.2	4.8		4.8	2.3					
		8834	Improved Hover Infra-Red Suppression System	0.3											
		8835	Improved Ballistic Armor Sub-System	1.0		0.4									
		8840	Vibration Monitoring System (VMS)	25.3		0.7	3.7		3.7	3.8	4.0	1.9			
		8841	Situation Awareness Data-Link	20.3	1.2	0.4									
		8843	Enhanced Crashworthy Crew Seats	0.6											
		8844	Multi-function Color Display	22.1	1.7	0.1	2.1		2.1	1.1					
		8845	SINCGARS	0.3											
		8847	Mobile Aircrew Retractor	0.6											
		8848	200 Gallon Tanks	0.1											
		8850	MODE 5			1.6	7.9		7.9	7.2	5.6	1.6	6.1		
		8851	Gun Replacement		10.0	4.0									

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

UNCLASSIFIED

P-1M MODIFICATION REPORT – 2012 PB

02/05/2011

<u>AIRCRAFT</u>	<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>PRIOR</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>Total FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>	<u>COST TO GO</u>
		8852	CSAR Avionics/Electrical Upgrade				10.5		10.5	10.2	10.3	10.3	5.0		
		99999S	SERVICE BULLETINS	0.1											
		99999X	LOW COST MODIFICATIONS	0.7	0.8	0.1	1.4		1.4	0.6	0.6	0.0			
		ARR	701C ENGINE AND GEARBOX UPGRADE	36.8											
		T8415	UPGRADE COMMUNICATIONS AND NAVIGATION/INTEGRATED E	28.7											
		Z88888	ADJUSTMENTS		-1.3										
<b>TOTAL FOR CLASS P</b>				272.5	63.9	92.6	34.4		34.4	26.4	21.5	14.8	11.1		
<b>TOTAL FOR AIRCRAFT HH-60</b>				272.5	63.9	92.6	34.4		34.4	26.4	21.5	14.8	11.1		

**UNCLASSIFIED**

**P-1M MODIFICATION REPORT – 2012 PB**

02/05/2011

<u>AIRCRAFT</u>	<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>PRIOR</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>Total FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>	<u>COST TO GO</u>
RQ-4	P	470001	GH Aircraft Mods	126.6	132.1	118.6	87.7	0.0	87.7	53.8	22.4	101.7	106.8		
		470003	GH Ground Station Mods	8.8	2.4	0.8	1.5	0.0	1.5	1.6	1.0	5.4	7.0		
		470004	Support Equipment Mods	1.6											
<b>TOTAL FOR CLASS P</b>				137.0	134.4	119.4	89.2	0.0	89.2	55.5	23.4	107.2	113.8		
<b>TOTAL FOR AIRCRAFT RQ-4</b>				137.0	134.4	119.4	89.2	0.0	89.2	55.5	23.4	107.2	113.8		

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UNCLASSIFIED

P-1M MODIFICATION REPORT – 2012 PB

02/05/2011

<u>AIRCRAFT</u>	<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>PRIOR</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>Total FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>	<u>COST TO GO</u>
HC/MC-130 Recap	P	8629	LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)					34.0	34.0						
		99999X	LOW COST MODIFICATIONS		2.0	1.9	0.4		0.4	1.9	1.9	1.9	2.0		
<b>TOTAL FOR CLASS P</b>					2.0	1.9	0.4	34.0	34.4	1.9	1.9	1.9	2.0		
		Z88888	ADJUSTMENTS		0.0										
<b>TOTAL FOR CLASS</b>					2.0										
<b>TOTAL FOR AIRCRAFT HC/MC-130 Recap</b>					2.0	1.9	0.4	34.0	34.4	1.9	1.9	1.9	2.0		

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UNCLASSIFIED

**P-1M MODIFICATION REPORT – 2012 PB**

02/05/2011

<u>AIRCRAFT</u>	<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>PRIOR</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>Total FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>	<u>COST TO GO</u>
OTHER (BP11)	P	_3472	C2ISR TDL				1.0		1.0	0.9	0.9	1.7	1.8		
		_9783	Link-16 Support and Sustainment	0.0											
		1000	COMBAT AIR FORCES RESCUE MSN TRNG	5.0											
		4501	EHF SATCOM		10.5	140.5	50.9		50.9	79.1	105.6	58.1	59.2		
		8668	Advanced Targeting Pod Modifications	41.2	91.5	62.7	0.8	15.0	15.8	0.9	0.9	0.9	0.9		
		8669	Full Combat Mission Training	53.8	0.0	0.4	1.1	0.0	1.1	1.6	1.8	1.9	1.9		
		8670	MAF Training	5.4	7.5	5.7	2.9	0.0	2.9	0.0	0.0	2.0			
		8727	MH-53 IFF APX-118	0.3											
		8728	DEPOT MAINTENANCE (NON-IF)	1.2											
		8729	Theatre Airborne Reconnaissance System (TARS)	8.4											
		9860A	JOINT TACTICAL RADIO SYSTEM		8.7	11.6	58.5		58.5	24.3	19.3	54.0	142.8		
		99999A	LOW COST SAFETY MODIFICATIONS	0.0											
		99999J	MISCELLANEOUS LOW COSTS MODS (OTHER)	1.5	1.7	0.1	0.1		0.1	0.1	0.1	0.1	0.1		
		99999X	LOW COST MODIFICATIONS	0.0											
		CMWS	COMMON MISSILE WARNING SYSTEM	0.8											
		STNGR7	F-16 STING R7 POD UPGRADE	0.0											
		T8137	UHF SATCOM UPGRADE	39.4											
		Z88888	ADJUSTMENTS		4.0										

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UNCLASSIFIED

P-1M MODIFICATION REPORT – 2012 PB

02/05/2011

<u>AIRCRAFT</u>	<u>CLASS</u>	<u>MOD</u> <u>NR</u>	<u>MODIFICATION</u> <u>TITLE</u>	<u>PRIOR</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12</u> <u>OCO</u>	<u>Total</u> <u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>	<u>COST</u> <u>TO GO</u>
<b>TOTAL FOR CLASS P</b>				157.0	124.0	221.0	115.3	15.0	130.3	106.9	128.7	118.8	206.7		
		9861	AIRBORNE ELECTRONIC ATTACK								18.2	73.9	8.3		
<b>TOTAL FOR CLASS</b>											18.2	73.9	8.3		
<b>TOTAL FOR AIRCRAFT OTHER (BP11)</b>				157.0	124.0	221.0	115.3	15.0	130.3	106.9	146.8	192.7	215.0		

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TOTAL PROG includes Prior Year and Cost To Go Dollars

UNCLASSIFIED

**P-1M MODIFICATION REPORT – 2012 PB**

02/05/2011

<u>AIRCRAFT</u>	<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>PRIOR</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>Total FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>	<u>COST TO GO</u>
MQ-1	P	4445	Aircraft PPDL	35.8	17.6	42.2	55.6		55.6	16.7	15.5	15.4			
		4446	Differential GPS	9.8	6.0	7.1	0.9		0.9	0.9	0.9	0.9			
		4447	Digital Video		0.7	29.1	17.3	2.8	20.1						
		4448	Common Sensor Payload							28.3	48.6	18.3	37.0	170.6	
		4449	Moving Target Tracker							6.3	5.8	6.5	7.5	20.2	
		4451	VORTEX	19.2	4.6	6.1	5.7		5.7	6.7					
		4452	GCS PPDL	62.2	73.0	97.3	68.4		68.4						
		4453	GCS Modernization	32.7			10.6		10.6						
		PRDT02	PREDATOR A/B MODIFICATIONS	19.7	64.0	26.4									
<b>TOTAL FOR CLASS P</b>				179.4	165.9	208.2	158.4	2.8	161.2	59.0	70.8	41.1	44.5	190.8	
<b>TOTAL FOR AIRCRAFT MQ-1</b>				179.4	165.9	208.2	158.4	2.8	161.2	59.0	70.8	41.1	44.5	190.8	

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TOTAL PROG includes Prior Year and Cost To Go Dollars

UNCLASSIFIED

**P-1M MODIFICATION REPORT – 2012 PB**

02/05/2011

<u>AIRCRAFT</u>	<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>PRIOR</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>Total FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>	<u>COST TO GO</u>
MQ-9	P	8679	PRDTB2 MQ-9		22.3		2.6		2.6						
		9136	AIRBORNE RECONN SYSTEMS		19.6	160.4	74.9		74.9	106.2	112.4	76.8	81.7		
		9151	Block 5 Depot				25.7		25.7	33.8	33.7	33.8	35.7	40.8	249.1
		9152	Block 5 Field		28.7	32.3	31.6		31.6	18.4	12.5	12.6	6.8	3.9	60.1
		9153	MTS-B HD							31.3	31.0	15.5	33.1	38.7	531.0
		9154	Lynx SAR							0.0	3.5	4.6	4.6	4.7	83.0
		9155	GCS Modernization	24.3		73.6	110.0		110.0	101.2	10.5	13.9			
		9156	Ka Migration							11.6	19.6	14.8	17.6	15.9	15.0
		9157	ASIP-2C							11.3	15.2	15.1	13.9		
		9158	9158				6.0		6.0						
		99999B	MQ-9 Low Cost Mods				2.0		2.0	2.0	2.0	2.0	2.0		
<b>TOTAL FOR CLASS P</b>				24.3	70.6	266.3	252.8		252.8	315.8	240.4	189.2	195.4	104.0	938.2
		9159	R&M enhancements			3.0	3.4		3.4	3.5	3.6	3.9	3.9	5.9	89.6
		Z88888	ADJUSTMENTS		5.7										
<b>TOTAL FOR CLASS</b>					5.7	3.0	3.4		3.4	3.5	3.6	3.9	3.9	5.9	89.6
<b>TOTAL FOR AIRCRAFT MQ-9</b>				24.3	76.3	269.3	256.2		256.2	319.3	244.0	193.1	199.3	109.9	1027.8

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

**UNCLASSIFIED**

**P-1M MODIFICATION REPORT – 2012 PB**

02/05/2011

<u>AIRCRAFT</u>	<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>PRIOR</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>Total FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>	<u>COST TO GO</u>
CV-22	P	8790	Block 20 Upgrade			2.0	7.1		7.1	16.9	57.6	131.1	48.8	46.2	132.3
		8791	BLOCK B UPGRADE	37.5	20.1	10.8	6.7		6.7	4.3					
		9400	CV-22 Fuel Jettison Retrofit		2.4										
		99999X	LOW COST MODIFICATIONS	7.1	2.0	2.0	0.9		0.9	1.9	1.2	2.0	2.0	2.0	4.0
		Z88888	ADJUSTMENTS		0.0										
<b>TOTAL FOR CLASS P</b>				44.7	24.5	14.8	14.7		14.7	23.2	58.8	133.1	50.8	48.2	136.3
<b>TOTAL FOR AIRCRAFT CV-22</b>				44.7	24.5	14.8	14.7		14.7	23.2	58.8	133.1	50.8	48.2	136.3

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: B-2</b>					
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16	
<b>COST (In Mil)</b>	\$247.091	\$63.371	\$41.315	\$	\$41.315	\$48.127	\$45.374	\$29.264	\$26.081	

The B-2 is a multi-engine, long range bomber incorporating low-observable ('stealth') technology, enables penetration of enemy air defenses and strike high-value targets. The primary modification budgeted FY12 is the Extremely High Frequency (EHF) Satellite Communications (SATCOM) and computers modification. Specific modifications budgeted and programmed are below.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	110024	ALTERNATE HIGH FREQUENCY MATERIAL PROGRAM (AHFMP)	1.1										75.0
	110026	EHF SATCOM & Computers			29.5		29.5	36.6	28.7	10.0	6.3		111.1
	110031	B-2 Trainer System Upgrade	5.9	11.2	5.2		5.2	5.3	6.3	6.4	6.5		73.6
	110032	LINK 16/CID/IFR							0.5	0.4	0.4		93.8
	110033	RADAR SYSTEM MODIFICATION	191.3	9.0	3.3		3.3						550.5
	110035	LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS	22.7	32.8	2.6		2.6	2.7	2.9	5.3	5.7	0.0	98.6
	110040	B-2 Massive Ordnance Penetrator (MOP) Integration	14.9	7.8									22.7
	110043	B-2 Adaptable Communications Suite (ACS)	2.8										17.2
	8881	MODE 5/ MODE S IFF						2.7	2.8	2.8	2.9		11.3
	99999U	B-2 Low Cost Engine Modifications	0.6	0.6	0.4		0.4	0.4	1.6	1.6	1.7		12.3
	99999X	LOW COST MODIFICATIONS	1.9	2.0	0.4		0.4	0.4	2.6	2.6	2.6		24.8
	Z88888	ADJUSTMENTS	5.9										5.9
<b>TOTAL FOR CLASS P</b>			247.1	63.4	41.3		41.3	48.1	45.4	29.3	26.1	0.0	1096.7

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

P-1 SHOPP LIST ITEM NO. 35	PAGE NO. 1
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>	<b>P-1 LINE ITEM NOMENCLATURE: B-2</b>
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<u>CLASS</u>	<u>MOD</u> <u>NR</u>	<u>MODIFICATION</u> <u>TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12OCO</u>	<u>FY-12Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST</u> <u>TO GO</u>	<u>TOTAL</u> <u>PROG</u>
<b>TOTAL FOR WEAPON SYSTEM B-2</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 35	PAGE NO. 2	
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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. EHF SATCOM & Computers MN- 110026

CLC: B-2 Class: P

Models of Systems Affected: B-2

Center: ASC - Wright Patterson AFB, OH

PE 0101127F

Team POWER

**Description/Justification**

The aging Ultra High Frequency (UHF) Military Satellite Communications (MILSATCOM) system is being phased out and replaced by the Advanced Extremely High Frequency (AEHF) Satellite Communications (SATCOM) system. The B-2 Extremely High Frequency (EHF) SATCOM program supports the replacement of the present B-2 UHF Terminal Set with an EHF SATCOM system that will be compatible with the legacy MILSTAR I/II satellite constellation and the future AEHF satellite constellation. The B-2 EHF SATCOM system is one element of a system of systems that includes the AEHF satellites, multiple platforms, and the Family of Advanced Beyond-Line-of-Site Terminals (FAB-T) or other equivalent terminals. The B-2 EHF SATCOM upgrade is a three increment program. Increment 1 will provide upgraded flight management computer processors, increased data storage, re-hosted flight management operational flight program, and a high bandwidth data bus in order to prevent degradation of existing capabilities resulting from EHF SATCOM installation. Additionally, the Increment 1 Integrated Processing Unit and Disk Drive Unit architectures establish a high speed fiber optic structure network as well as maintain connectivity to legacy interfaces. Increment 1 provides a processing growth path to future B-2 upgrades. EHF SATCOM Increment 2 will ensure continuing secure, survivable communication capability, and Increment 3 will enable the B-2 to interface with the Global Information Grid and provide Net Ready capability. Modification MN-110026 addresses only Increment 1.

Increment 1 requires 17 kit installs in production with three installs accomplished in Engineering and Manufacturing Development (EMD), two Force Development Evaluation installs, and one test asset install. A fourth development kit will be refurbished and utilized as a production install. Modification of the training system will be accomplished at the operational base and other locations as required. This effort includes updating the aircrew and maintenance trainers and academics/courseware. The Production and Deployment phase is divided into Low Rate Initial Production and Full Rate Production. Life of Type buys may be implemented when appropriate to address diminishing manufacturing sources and materiel shortages for affected components and subassemblies to protect the planned production program by mitigating unplanned part redesign and requalification risks. Funds on Support Equipment line are for upgrades to Support Equipment.

This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0604240F; PE is changed to 0101127F beginning in FY10.

The "combined" install implementation method is a combination of depot and field team (performed by contractors) installations.

Aircraft Breakdown: ACTIVE 20, RESERVE 0, ANG 0, TOTAL 20

**Development Status**

EMD for Increment 1 was awarded on 31 May 2007. The System Critical Design Review was completed in October 2008 establishing the system detailed design. SAF/AQ approved the Design Readiness Review on 4 April 2009. The first development aircraft installation is complete; ground test began May 10 and flight test began Sep 10. The operational assessment is under way, supporting a Milestone C production decision Fall 2011. Production is planned to begin in FY12.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		327.324		52.957		76.926	1	57.069				6.324
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)		327.324		52.957		76.926	1	57.069				6.324
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	0						5	8.224			6	9.736
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	0						5	8.224			6	9.736

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)	[0]						[5]	17.610			[6]	17.954
EQUIPMENT Group B (Guard)	[0]											
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT	[0]						[5]	17.610			[6]	17.954
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA												
SIM/TRAINER							[0]	2.145			[0]	2.061
SUPPORT- EQUIP								0.388				
REFURB OF EMD ASSETS								0.165				0.167
OGC								0.969				1.017
INSTALLATION OF HARDWARE												
FY-12 (Active)			6 KITS								[3]	5.700
FY-13 (Active)			6 KITS									
FY-14 (Active)			5 KITS									
TOTAL INSTALL											3	5.700
TOTAL COST (BP-1100)		0					6	29.501			6	36.635
(Totals may not add due to rounding)												
INSTALLATION QTY											3	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)									1	520.600
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)									1	520.600
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	5	7.695							16	25.655
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	5	7.695							16	25.655
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)	[5]	13.103							[16]	48.667
EQUIPMENT Group B (Guard)									[0]	
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT	[5]	13.103							[16]	48.667
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										
SIM/TRAINER	[0]	0.000							[0]	4.206
SUPPORT- EQUIP										0.388
REFURB OF EMD ASSETS										0.332
OGC		0.889		0.391		0.244				3.510
INSTALLATION OF HARDWARE										
FY-12 (Active)	6 KITS	[3]	5.250						[6]	10.950
FY-13 (Active)	6 KITS	[1]	1.750	[5]	8.034				[6]	9.784
FY-14 (Active)	5 KITS			[1]	1.614	[4]	6.008		[5]	7.622
TOTAL INSTALL		4	7.000	6	9.648	4	6.008		17	28.356
TOTAL COST (BP-1100)		5	28.687		10.039		6.252		17	111.114

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
(Totals may not add due to rounding)										
INSTALLATION QTY	4		6		4				17	

Method of Implementation: Combination

Initial Lead Time: 18 Months

Follow-On Lead Time: 18 Months

**Milestones**

	<u>FY-01</u>	<u>FY-02</u>	<u>FY-03</u>	<u>FY-04</u>	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>
Contract Date (Month/CY)												03/12	04/13	01/14
Delivery Date (Month/CY)												09/13	10/14	07/15

**Installation Schedule**

	<u>FY-01</u>				<u>FY-02</u>				<u>FY-03</u>				<u>FY-04</u>				<u>FY-05</u>				<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																				
Output																																				
	<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																					1	2	1	1	1	1	1	1	1	1	1	2	2			
Output																									1	2	1	1	1	1	1	1				

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. B-2 Trainer System Upgrade MN- 110031

CLC: B-2 Class: P

Models of Systems Affected: B-2

Center: ASC - Wright Patterson AFB, OH

PE 0101127F

Team POWER

**Description/Justification**

This effort modifies the B-2 Training System to ensure concurrency with the aircraft, provides for the evolution of the B-2 Training System as dictated by technology and global threat realities, and enables the anti-access and global strike mission of the B-2 fleet. The Training System provides initial qualification, proficiency, continuation, requalification, mission rehearsal, and upgrade training for B-2 aircrews, maintainers, and weapons loaders. It includes, but is not limited to, the following training elements at Whiteman AFB: three Weapon System Trainers (WSTs); a Mission Trainer (MT); four Cockpit Procedure Trainers (CPTs); five maintenance training classrooms each consisting of a Computerized Maintenance Training System (CMTS), six computer-based training (CBT) Weapon System Training Aids (WSTAs), and an instructor-operator station; a Weapons Loading Trainer (WLT); a Crew Escape System Maintenance Trainer (CESMT); a Flight Control System Trainer (FCST); and a Training System Support Center (TSSC). This effort includes, but is not limited to, updates to training devices' hardware and computers, simulation software, courseware lessons and academics materials, instructional system design architectures, and engineering drawings and system documentation. These upgrades are ongoing and necessary to ensure concurrency with the B-2 weapon system and provide the fidelity necessary to train operational and warfighter employment requirements while saving precious flight hours and avoiding 30-40 hour on-aircraft training sorties. Upgrades include, but are not limited to, upgrade of radar simulation components in the WSTs/MT, updates of display systems and subsystems, updates to the fidelity of the feel, handling, and response characteristics of the WST during aerial refueling, and approaches and landings to more precisely resemble what is experienced in the jet. Additional improvements include updates to courseware and simulation associated with conventional, nuclear, and guided weapons delivery; expanded crypto keyfill training; upgrade of the electronic combat environment (ECE) threat database tools to include, but not limited to, threat laydown, threat parametrics, Integrated Air Defense System (IADS) threat environments; expanded "freeplay" capability on the CPTs and CMTSs; upgrade of the WST simulation to provide weapons as powered up upon completion of initial conditions; upgrade of the Defensive Management System (DMS) simulation and the DMS alternative/emergency procedures courseware; enhanced Mission Generation System (MGS); and upgrade of the simulation and computational processors as necessary.

The quantities and delivery dates have not been included because of the wide variety of upgrade and modification efforts on-going to the various elements of the Training System. B-2 Trainers funding includes BP-11 funds from PE 0809731F specifically for maintenance training. These amounts are reflected on the P3-A in the "OTHER" row.

Aircraft Breakdown: ACTIVE 0, RESERVE 0, ANG 0, TOTAL 0

**Development Status**

Development of Trainer Upgrades is a continuous process relative to the needs of each funded effort. Some efforts will not require RDT&E funds, while others will require design and test activities. This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0604240F, changed to PE 0101127F in FY10.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		5.694		3.371		3.386		0.463				0.480
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)		5.694		3.371		3.386		0.463				0.480
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)												
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS												
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA												
SIM/TRAINER	[0]	26.335			[0]	5.288						
SUPPORT- EQUIP												
OGC		0.567										
OTHER				5.875		5.956		5.163				5.271
<b>TOTAL COST (BP-1100)</b>		<b>26.902</b>		<b>5.875</b>		<b>11.244</b>		<b>5.163</b>				<b>5.271</b>
(Totals may not add due to rounding)												
INSTALLATION QTY												

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		0.478		0.475		0.483				14.830
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)		0.478		0.475		0.483				14.830
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS										
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										
SIM/TRAINER									[0]	31.623
SUPPORT- EQUIP										
OGC										0.567
OTHER		6.261		6.385		6.500				41.411
TOTAL COST (BP-1100)		6.261		6.385		6.500				73.601
(Totals may not add due to rounding)										
INSTALLATION QTY										

Method of Implementation:

Initial Lead Time: 0 Months

Follow-On Lead Time: 0 Months

**Milestones**

	<u>FY-02</u>	<u>FY-03</u>	<u>FY-04</u>	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>
Contract Date (Month/CY)															
Delivery Date (Month/CY)															

UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: B-1</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$98.816	\$208.590	\$198.007	\$0.000	\$198.007	\$173.060	\$120.626	\$81.061	\$108.701

FY 2011 funding totals include \$8.5M requested for Overseas Contingency Operations.

This line item funds modifications to the B-1B aircraft and associated simulators and equipment. The specific modifications budgeted and programmed are below.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	4280	FULLY INTEGRATED DATA LINKS		51.5	68.4		68.4	64.7	48.2	35.5	49.5	113.1	430.9
	4284	CITS UPGRADE		17.6	21.1		21.1	20.5	19.0	13.0	16.6	44.2	152.0
	4285	Gyro Stabilization System (GSS)	9.6	12.5	8.0		8.0	2.4					65.9
	4286	Inertial Navigation System (INS)		20.1	30.9		30.9	23.7	11.6				86.3
	4288	Wheel&Brake Fuses	8.9	2.4									11.3
	4289	ENGINE FEED-LINE	0.0	1.4									2.1
	4291	B-1 TRAINING SUPPORT	0.4	0.4	0.3		0.3	0.4	0.4	0.4	0.4		2.7
	6882	Digital Communications	0.0	1.4	0.1		0.1						4.4
	8411	RADAR IMPROVEMENT UPGRADE	59.4	63.7	30.1		30.1	12.1	2.0	2.6			169.9
	8423	B-1 Link 16 Crypto							1.3	1.3	1.1		3.7
	8971	VERTICAL SITUATION DISPLAYS		25.2	39.0		39.0	49.3	38.1	28.3	41.1	105.6	326.5
	92294	LAPTOP CONTROLLED TARGETING POD	3.3	3.2									65.0
	92297	Pylon for External Stores	17.2	8.5									42.0
	99999X	LOW COST MODIFICATIONS		0.7	0.1		0.1						0.8
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			98.8	208.6	198.0		198.0	173.1	120.6	81.1	108.7	262.9	1363.4

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 36	PAGE NO. 1	
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>	<b>P-1 LINE ITEM NOMENCLATURE: B-1</b>
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<u>CLASS</u>	<u>MOD</u> <u>NR</u>	<u>MODIFICATION</u> <u>TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12OCO</u>	<u>FY-12Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST</u> <u>TO GO</u>	<u>TOTAL</u> <u>PROG</u>
<b>TOTAL FOR WEAPON SYSTEM B-1</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 36	PAGE NO. 2	
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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. FULLY INTEGRATED DATA LINKS MN- 4280

Models of Systems Affected: B-1B

Center: ASC - Wright Patterson AFB, OH

PE 0101126F

CLC: B-1 Class: P  
Team POWER

**Description/Justification**

The Fully Integrated Data Link (FIDL) is a Net-Centric warfare upgrade enabling full B-1 participation in joint combat and time-critical targeting operations. FIDL adds “permanent” line-of-sight and beyond line-of-sight command and control (C2) connectivity through addition of the Link 16 and Joint Range Extension (JRE) data link. This modification also upgrades rear cockpit crew station displays and adds an Ethernet infrastructure enabling rapid airborne retargeting by high-speed transfer of aircraft information to all four crew stations and on-board weapons. FIDL installations are scheduled concurrently with Central Integrated Test System (CITS) and Vertical Situation Display Upgrade (VSDU) to reduce installation costs, aircraft downtime, and to keep fielded aircraft configurations to a minimum for aircrew training, maintenance, and operational deployment efficiencies. Lifetime buy of DMS component parts will occur. The Program Office is executing a flexible buy strategy where annual production quantities may vary depending upon funds availability.

Two test aircraft were modified using Research Development Test and Evaluation (RDT&E) funding in PE 0604226F / 0101126F.

Aircraft Breakdown: ACTIVE 58, RESERVE 0, ANG 0, TOTAL 58

**Development Status**

System Development and Demonstration (SDD) began in FY05. Phase 1 Flight Test began June 2009. Contract close out scheduled for August 2011.

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)						11.034						
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)						11.034						
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)					4	1.217	10	2.875			10	2.856
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS					4	1.217	10	2.875			10	2.856
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)					[4]	6.960	[10]	16.928			[10]	17.116
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT					[4]	6.960	[10]	16.928			[10]	17.116
EQUIP NONREC Group B (Active)						12.504		3.925				3.292
EQUIP NONREC Group B (Guard)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC						12.504		3.925				3.292
CHANGE ORDERS						1.845		3.600				2.381
DATA						0.936		0.233				
SIM/TRAINER					[0]	0.149	[0]	1.448				0.152
SUPPORT- EQUIP						4.443		20.366				16.892
SE/PM						20.571		7.477				7.485
ICS-Labor								0.217				0.225
ICS-Material								1.453				
OGC						2.884		7.306				6.830
INSTALLATION OF HARDWARE												
FY-11 (Active)	4 KITS							[1] 2.550			[3]	4.479
FY-12 (Active)	10 KITS									[2]		2.987
FY-13 (Active)	10 KITS											
FY-14 (Active)	4 KITS											
FY-15 (Active)	4 KITS											
FY-16 (Active)	9 KITS											
FY-17 (Active)	12 KITS											
FY-18 (Active)	5 KITS											
TOTAL INSTALL								1 2.550			5	7.466
TOTAL COST (BP-1100)						4 51.509		10 68.378			10	64.695
(Totals may not add due to rounding)												
INSTALLATION QTY								1			5	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										11.034
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										11.034
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	4	1.142	4	1.160	9	2.656	17	5.126	58	17.032
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	4	1.142	4	1.160	9	2.656	17	5.126	58	17.032
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)	[4]	6.852	[4]	6.979	[9]	15.996	17	30.946	[58]	101.777
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT	[4]	6.852	[4]	6.979	[9]	15.996	[17]	30.946	[58]	101.777
EQUIP NONREC Group B (Active)		3.290		3.341		3.392		5.151		34.895
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC		3.290		3.341		3.392		5.151		34.895
CHANGE ORDERS		0.657		0.554		1.042		1.963		12.042
DATA								1.114		2.283
SIM/TRAINER	[0]	0.149	[0]	1.162	[0]	3.499	0	2.455	[0]	9.014
SUPPORT- EQUIP		13.145		0.225		0.004				55.075
SE/PM		3.005		2.601		4.359		8.101		53.599
ICS-Labor		0.909		2.011		1.597				4.959
ICS-Material										1.453
OGC		3.907		5.574		6.155		12.829		45.485
INSTALLATION OF HARDWARE										
FY-11 (Active)			4 KITS						[4]	7.029
FY-12 (Active)			10 KITS	[8]	12.128				[10]	15.115
FY-13 (Active)			10 KITS	[2]	3.029	[8]	11.867		[10]	14.896

**Continued**

		<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-14 (Active)	4 KITS					[4]	6.160			[4]	6.160
FY-15 (Active)	4 KITS					[3]	4.620	1	1.604	[4]	6.224
FY-16 (Active)	9 KITS							9	14.700	[9]	14.700
FY-17 (Active)	12 KITS							12	20.456	[12]	20.456
FY-18 (Active)	5 KITS							5	8.692	[5]	8.692
TOTAL INSTALL		10	15.157	8	11.867	7	10.780	27	45.452	58	93.272
TOTAL COST (BP-1100)		4	48.213	4	35.474	9	49.480	17	113.137	58	430.886
(Totals may not add due to rounding)											
INSTALLATION QTY		10		8		7		27		58	

Method of Implementation: Depot

Initial Lead Time: 17 Months

Follow-On Lead Time: 16 Months

**Milestones**

	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>	<u>FY-18</u>	<u>FY-19</u>
Contract Date (Month/CY)	03/11	11/11	11/12	11/13	11/14	11/15	11/16	11/17	11/18	
Delivery Date (Month/CY)	07/12	03/13	03/14	03/15	03/16	03/17	03/18	03/19	03/20	

**Installation Schedule**

Quarter	<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input												1					1	3	1	0	3	5	0	2	2	2	2	2	2	2	1	2
Output																			1	1	2	2	0	3	2	3	1	2	2	2	3	2

  

Quarter	<u>FY-17</u>				<u>FY-18</u>				<u>FY-19</u>				<u>FY-20</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input	1	1	2	2	3	2	3	2	2	2	4	1	4			
Output	2	1	2	0	2	3	2	2	3	2	3	3	1	4	1	

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. CITS UPGRADE MN- 4284

Models of Systems Affected: B-1B

Center: OC-ALC - Tinker AFB Okla City, OK

PE 0101126F

CLC: B-1 Class: P  
Team POWER

**Description/Justification**

The Central Integrated Test System (CITS) is the B-1 on-board diagnostic system that monitors aircraft avionics and mechanical systems on the ground and during flight, reporting faults to aircrew and maintainers. The current CITS suffers from Diminishing Manufacturing Source (DMS) issues with the potential to ground aircraft. Current CITS processor is also at maximum memory/throughput, inhibiting fault detection and isolation for current systems and future B-1 upgrades. This modification provides a new CITS Dedicated Processor (CDP), upgraded Multi-Functional Display (MFD), and re-hosted CITS software, resulting in enhanced diagnostic capabilities, improved turnaround time, and reduced maintenance costs. CITS installations are scheduled concurrently with the Fully Integrated Data Link (FIDL), and the Vertical Situation Display Upgrade (VSDU) to reduce installation costs, aircraft downtime, and to keep fielded aircraft configurations to a minimum for aircrew training, maintenance, and operational deployment efficiencies. Lifetime buy of DMS component parts will occur. The Program Office is executing a flexible buy strategy where annual production quantities may vary depending upon funds availability.

Two test aircraft were modified using Research Development Test and Evaluation (RDT&E) funding in PE 0604226F / 0101126F.

Aircraft Breakdown: ACTIVE 58, RESERVE 0, ANG 0, TOTAL 58

**Development Status**

Development began in FY05. Ground testing began 23 Sep 09 and completed on 10 Nov 09. Contract closed out in Oct 10.

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)						0.231						
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)						0.231						
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)					4	0.295	10	0.665			10	0.665
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS					4	0.295	10	0.665			10	0.665
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)					[4]	1.284	[10]	3.238			[10]	3.339
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT					[4]	1.284	[10]	3.238			[10]	3.339
EQUIP NONREC Group B (Active)						4.070		2.355				1.823
EQUIP NONREC Group B (Guard)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC						4.070		2.355				1.823
CHANGE ORDERS						0.779		1.592				1.000
DATA						0.896		0.398				
SIM/TRAINER					[0]	0.063	[0]	1.188			[0]	0.051
SUPPORT- EQUIP						0.618		5.509				4.877
OGC						0.812		1.551				1.577
SE/PM						8.772		3.013				3.044
ICS-Labor								0.037				0.088
ICS-Material								0.250				
INSTALLATION OF HARDWARE												
FY-11 (Active)	4 KITS						[1]	1.299			[3]	2.451
FY-12 (Active)	10 KITS										[2]	1.633
FY-13 (Active)	10 KITS											
FY-14 (Active)	4 KITS											
FY-15 (Active)	4 KITS											
FY-16 (Active)	9 KITS											
FY-17 (Active)	12 KITS											
FY-18 (Active)	5 KITS											
TOTAL INSTALL								1	1.299		5	4.084
TOTAL COST (BP-1100)						4	17.589	10	21.095		10	20.548
(Totals may not add due to rounding)												
INSTALLATION QTY								1			5	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										0.231
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										0.231
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	4	0.266	4	0.271	9	0.619	17	1.195	58	3.976
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	4	0.266	4	0.271	9	0.619	17	1.195	58	3.976
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)	[4]	1.339	[4]	1.366	[9]	3.136	17	6.080	[58]	19.782
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT	[4]	1.339	[4]	1.366	[9]	3.136	[17]	6.080	[58]	19.782
EQUIP NONREC Group B (Active)		1.822		1.851		1.880		3.098		16.899
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC		1.822		1.851		1.880		3.098		16.899
CHANGE ORDERS		0.276		0.233		0.438		0.824		5.142
DATA								0.816		2.110
SIM/TRAINER	[0]	0.050	[0]	0.387	[0]	1.166	0	0.818	[0]	3.723
SUPPORT- EQUIP		4.350		0.063		0.002				15.419
OGC		1.185		0.865		1.284		3.071		10.345
SE/PM		1.189		1.030		1.844		3.402		22.294
ICS-Labor		0.215		0.410		0.339				1.089
ICS-Material										0.250
INSTALLATION OF HARDWARE										
FY-11 (Active)			4 KITS						[4]	3.750
FY-12 (Active)			10 KITS	[8]	6.632				[10]	8.265
FY-13 (Active)			10 KITS	[2]	1.658	[8]	6.492		[10]	8.150

**Continued**

		<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-14 (Active)	4 KITS					[4]	3.368			[4]	3.368
FY-15 (Active)	4 KITS					[3]	2.529	1	0.877	[4]	3.406
FY-16 (Active)	9 KITS							9	8.043	[9]	8.043
FY-17 (Active)	12 KITS							12	11.187	[12]	11.187
FY-18 (Active)	5 KITS							5	4.757	[5]	4.757
TOTAL INSTALL		10	8.290	8	6.492	7	5.897	27	24.864	58	50.926
TOTAL COST (BP-1100)		4	18.982	4	12.968	9	16.605	17	44.168	58	151.955
(Totals may not add due to rounding)											
INSTALLATION QTY		10		8		7		27		58	

Method of Implementation: Depot

Initial Lead Time: 17 Months

Follow-On Lead Time: 16 Months

**Milestones**

	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>	<u>FY-18</u>	<u>FY-19</u>
Contract Date (Month/CY)	03/11	11/11	11/12	11/13	11/14	11/15	11/16	11/17	11/18	
Delivery Date (Month/CY)	07/12	03/13	03/14	03/15	03/16	03/17	03/18	03/19	03/20	

**Installation Schedule**

	Quarter	<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input													1					1	3	1	0	3	5	0	2	2	2	2	2	2	2	1	2	2
Output										0	0								1	1	2	2	0	3	2	3	1	2	2	2	2	3	2	1
Quarter		<u>FY-17</u>				<u>FY-18</u>				<u>FY-19</u>				<u>FY-20</u>																				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																	
Input		1	1	2	2	3	2	3	2	2	2	4	1	4																				
Output		2	1	2	0	2	3	2	2	3	2	3	3	1	4	1																		

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Gyro Stabilization System (GSS) MN- 4285

CLC: B-1 Class: P

Models of Systems Affected: B-1B

Center: OC-ALC - Tinker AFB Okla City, OK

PE 0101126F

Team POWER

**Description/Justification**

These funds will procure and install Line Replacement Units (LRUs) in the Gyro Stabilization System (GSS), which is part of the aircraft's navigation system. This modification provides for replacement of the high maintenance/high cost/high failure rate GSS LRUs, which can no longer be supported due to Diminishing Manufacture Source (DMS) issues with high reliability LRUs. The replacement GSS uses Non-Development Items (NDI) to replace obsolescent legacy LRUs, providing long-term support capability with support cost savings. Installation will be accomplished during Programmed Depot Maintenance (PDM). This modification is planned to modify the 64 operational fleet aircraft. The two test aircraft at Edwards AFB were modified during System Development and Demonstration (SDD) using RDT&E funds.

Aircraft Breakdown: ACTIVE 64, RESERVE 0, ANG 0, TOTAL 64

**Development Status**

System Development and Demonstration (SDD) began in FY06 and ended in FY08.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)	[2]	25.062										
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)	[2]	25.062										
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	[37]		[13]		[14]							
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	[37]		[13]		[14]							
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)	46	22.040	13	6.073	5	2.095	0	0.000				
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT	46	22.040	13	6.073	5	2.095	0	0.000				
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												

**Projected Financial Plan Continued**

		<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
DATA			0.021										
SIM/TRAINER		[2]	1.183										
SUPPORT- EQUIP			1.128										
ENG SUPPORT			3.991		0.746								
OGC			1.491		0.277		0.967		0.180				
INSTALLATION OF HARDWARE													
FY-08 (Active)	16 KITS	[4]	3.527	[12]	2.480								
FY-09 (Active)	30 KITS					[12]	9.417	[12]	7.847			[6]	0.600
FY-10 (Active)	13 KITS											[13]	1.300
FY-11 (Active)	5 KITS											[5]	0.500
TOTAL INSTALL		4	3.527	12	2.480	12	9.417	12	7.847			24	2.400
TOTAL COST (BP-1100)		46	33.381	13	9.576	5	12.479	0	8.027				2.400
(Totals may not add due to rounding)													
INSTALLATION QTY		4		12		12		12				24	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)									[2]	25.062
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)									[2]	25.062
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									[64]	
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									[64]	
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)									64	30.208
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT									64	30.208
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										0.021
SIM/TRAINER									[2]	1.183
SUPPORT- EQUIP										1.128
ENG SUPPORT										4.737
OGC										2.915
INSTALLATION OF HARDWARE										
FY-08 (Active)	16 KITS								[16]	6.007
FY-09 (Active)	30 KITS								[30]	17.864
FY-10 (Active)	13 KITS								[13]	1.300
FY-11 (Active)	5 KITS								[5]	0.500
TOTAL INSTALL									64	25.671

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL COST (BP-1100) (Totals may not add due to rounding)									64	65.863
INSTALLATION QTY									64	

Method of Implementation: Combination

Initial Lead Time: 14 Months

Follow-On Lead Time: 14 Months

**Milestones**

	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>
Contract Date (Month/CY)				04/08	11/08	11/09	11/10
Delivery Date (Month/CY)				06/09	02/10	02/11	02/12

**Installation Schedule**

	<u>FY-05</u>				<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																	1	3	3	2	3	4	3	3	3	3	3	3	3	3	3	3
Output																	1	3	3	2	3	4	3	3	3	3	3	3	3	3	3	3
	<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>																							
Quarter	1	2	3	4	1	2	3	4	1	2	3	4																				
Input					6	6	6	6																								
Output					3	6	6	6	6																							

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Inertial Navigation System (INS) MN- 4286

CLC: B-1 Class: P

Models of Systems Affected: B-1B

Center: ASC - Wright Patterson AFB, OH

PE 0101126F

Team POWER

**Description/Justification**

The B-1 Inertial Navigation System (INS), coupled with the Gyro Stabilization System (GSS), provides the aircrew autonomous capability to navigate globally, without the aid of ground-based navigation aids, as well as engage targets with a high level of precision. The current INS system has severe Diminishing Manufacturing Sources (DMS) issues with the potential to ground aircraft in FY12. The INS Replacement (INS-R) Program is made up of the following LRUs: two new Attitude/INS (AINS) which include an embedded Selective Availability Anti-Spoofing Security Module (SAASM) Global Positioning System (GPS) receiver, and a second GPS Controlled Reception Pattern Antenna (CRPA). INS-R will provide B-1 combat forces with an updated navigational system that improves aircraft maintainability, supportability, and navigation capability. A Life-of-Type buy may be required. Installation will be Contractor Field Team (CFT) in FY12, then a combination of organic and CFT in FY13 and FY14.

Two test aircraft will be modified as a part of the development program and funded with RDT&E funding in PE 0604226F / 11126F64.

Aircraft Breakdown: ACTIVE 58, RESERVE 0, ANG 0, TOTAL 58

**Development Status**

System Development and Demonstration (SDD) Contract award was Mar 08, Critical Design Review (CDR) completed May 09, CDR closeout Aug 09, mod install on test aircraft began Mar 10, mod install completed Jun 10, software development Formal Qualification Test (FQT) was Jul 10, Milestone C was 22 Oct 10, first flight was 26 Oct 10.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)						3.910						
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)						3.910						
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)					17	1.840	28	2.328			13	1.190
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS					17	1.840	28	2.328			13	1.190
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)					[17]	7.962	[28]	11.823			[13]	5.906
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT					[17]	7.962	[28]	11.823			[13]	5.906
EQUIP NONREC Group B (Active)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS						0.826		1.430				0.915
DATA												
SIM/TRAINER						2.200						
SUPPORT- EQUIP												
ICS-Labor								0.065				0.396
SE/PM						6.582		3.731				2.260
OGC						0.701		1.584				0.774
INSTALLATION OF HARDWARE												
FY-11 (Active)	17 KITS							[8]	9.974		[9]	4.586
FY-12 (Active)	28 KITS										[15]	7.646
FY-13 (Active)	13 KITS											
TOTAL INSTALL								8	9.974		24	12.232
TOTAL COST (BP-1100)						17	20.111	28	30.935		13	23.673
(Totals may not add due to rounding)												
INSTALLATION QTY								8			24	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										3.910
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										3.910
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									58	5.358
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									58	5.358
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)									[58]	25.691
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT									[58]	25.691
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS		0.501								3.672
DATA										
SIM/TRAINER										2.200
SUPPORT- EQUIP										
ICS-Labor		0.738								1.199
SE/PM										12.573
OGC		0.377								3.436
INSTALLATION OF HARDWARE										
FY-11 (Active)	17 KITS								[17]	14.560
FY-12 (Active)	28 KITS	[13]	5.003						[28]	12.649
FY-13 (Active)	13 KITS	[13]	5.003						[13]	5.003
TOTAL INSTALL	26	10.006							58	32.212

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL COST (BP-1100) (Totals may not add due to rounding)		11.622							58	86.341
INSTALLATION QTY	26								58	

Method of Implementation: Combination

Initial Lead Time: 12 Months

Follow-On Lead Time: 12 Months

**Milestones**

	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>
Contract Date (Month/CY)	03/11	11/11	11/12	11/13	11/14	
Delivery Date (Month/CY)	03/12	11/12	11/13	11/14	11/15	

**Installation Schedule**

Quarter	<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input									1	3	4						6	6	6	6	6	7	7	6				
Output									1	3							4	6	6	6	6	6	7	7	6			

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. RADAR IMPROVEMENT UPGRADE MN- 8411

CLC: B-1 Class: P

Models of Systems Affected: B-1B

Center: ASC - Wright Patterson AFB, OH

PE 0101126F

Team POWER

**Description/Justification**

The B-1B Radar Reliability and Maintainability Improvement Program (RMIP) consists of the replacement of two high failure rate radar Line Replaceable Units (LRUs) and the supporting software conversion of legacy radar modes. RMIP is intended to provide B-1 combat forces with an updated offensive radar system that reduces existing mission capable (MC) rate problems due to increasing Diminishing Manufacturing Resources (DMS) problems. The B-1 radar system is over 20 years old and has not had a hardware upgrade since it was initially fielded in 1985. The Radar Receiver Transmitter (RRT) from the legacy AN/APQ-164 system will be replaced with a new F-16 developed receiver, the Modular Receiver Exciter (MoRE) and the Radar Signal Processor (RSP) with a new F-16-developed signal processor, the Common Radar Processor (CoRP). RMIP will procure radar modification kits for installation on the entire B-1B fleet, saving approximately \$12M per year (over 300% improvement in system Mean-Time Between Failure (MTBF) from 133-to-580 hours). The production contract was awarded in FY10 and installations will begin in FY12 based on an 18-month hardware lead-time. The RMIP hardware installation will be performed by organic personnel at the B-1B main operating bases. Lifetime buy of DMS component parts will occur. Contract language permits a variation in quantity which have affected the quantity numbers shown below.

This program has associated Research Development Test and Evaluation(RDT&E) funding in PE 0604226F / 0101126F.

Aircraft Breakdown: ACTIVE 60, RESERVE 0, ANG 0, TOTAL 60

**Development Status**

System Design and Demonstration (SDD) began February 2006. The Preliminary Design Review (PDR) was completed March 2007 and the program completed Critical Design Review (CDR) in March 2008. Flight test began April 2010.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)				32.225		6.532						
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)				32.225		6.532						
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)			[22]	0.002	[26]	0.002	[12]	0.001				
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS			[22]	0.002	[26]	0.002	[12]	0.001				
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)			[22]	34.009	[26]	40.196	[12]	19.285				
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT			[22]	34.009	[26]	40.196	[12]	19.285				

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Active)			[0]	2.963		0.070		0.070				
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC			[0]	2.963		0.070		0.070				
CHANGE ORDERS				1.140		3.544		1.823				
DATA				0.774		1.391		1.666				
SIM/TRAINER				0.361								
SUPPORT- EQUIP				11.065		8.483						10.000
ICS-Labor				0.333		0.273		0.664				1.208
ICS-Material				1.419								
SE/PM				7.313		6.299		4.927				
OGC						3.443		1.666				0.906
TOTAL COST (BP-1100)				59.379		63.701		30.102				12.114
(Totals may not add due to rounding)												
INSTALLATION QTY												

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										38.757
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										38.757
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									[60]	0.005
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									[60]	0.005
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)									[60]	93.490
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT									[60]	93.490
EQUIP NONREC Group B (Active)									[0]	3.103
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[0]	3.103
CHANGE ORDERS										6.507
DATA										3.831
SIM/TRAINER										0.361
SUPPORT- EQUIP										29.548
ICS-Labor		1.848		2.457						6.783
ICS-Material										1.419
SE/PM										18.539
OGC		0.111		0.147						6.273
TOTAL COST (BP-1100) (Totals may not add due to rounding)		1.959		2.604						169.859
INSTALLATION QTY										

Method of Implementation: Org/Intermediate

Initial Lead Time: 18 Months

Follow-On Lead Time: 18 Months

**Milestones**

	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>
Contract Date (Month/CY)	09/10	06/11	11/11	11/12	
Delivery Date (Month/CY)	03/12	12/12	05/13	05/14	

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. VERTICAL SITUATION DISPLAYS MN- 8971

Models of Systems Affected: B-1B

Center: ASC - Wright Patterson AFB, OH

PE 0101126F

CLC: B-1 Class: P  
Team POWER

**Description/Justification**

The Vertical Situation Display Upgrade (VSDU) is a safety-critical program to replace B-1 pilot and co-pilot primary flight displays and associated flight instruments. The current VSDs are monochrome cathode ray tube displays and “steam gauge” primary flight instruments which are experiencing severe Diminishing Manufacturing Sources (DMS) issues with the potential to ground aircraft. Spares are no longer procurable due to obsolescence. This modification installs two 8”x6” color displays at pilot and co-pilot stations to provide Primary Flight Information (PFI) and backup PFI to meet flight safety standards. These displays also provide front crew situational awareness from the Fully Integrated Data Link (FIDL), enhancing the ability to avoid threats and strike emerging targets. VSDU installations are scheduled concurrently with Central Integrated Test System (CITS) and FIDL to reduce installation costs, aircraft downtime, and to keep fielded aircraft configurations to a minimum for aircrew training, maintenance, and operational deployment efficiencies. The authority to buy hardware components was approved in October 2010, with the Low Rate Initial Production (LRIP) Milestone (MS) for remainder of the VSDU components scheduled for August 2011. Early buy authority for hardware was requested and received in October 2010, so that hardware Line Replaceable Units (LRUs) would be available to start installation concurrent with FIDL and CITS. Lifetime buy of DMS component parts will occur. The Program Office is executing a flexible buy strategy where annual production quantities may vary depending upon funds availability.

Two test aircraft will be modified as a part of the development program and funded with RDT&E funding in PE 0604226F / 0101126F.

Aircraft Breakdown: ACTIVE 58, RESERVE 0, ANG 0, TOTAL 58

**Development Status**

Development began in FY06. One of two test aircraft have been modified. System hardware and software are in final stages of qualification. Flight tests scheduled to start Feb - Mar 2011. Contract close out in Oct 2012.

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)						7.456		22.911				
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)						7.456		22.911				
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)					4	0.569	10	1.359			10	1.359
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS					4	0.569	10	1.359			10	1.359
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)					[4]	4.594	[10]	11.331			[10]	11.579
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL: EQUIPMENT					[4]	4.594	[10]	11.331			[10]	11.579
EQUIP NONREC Group B (Active)						6.179		1.926				0.924
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC						6.179		1.926				0.924
CHANGE ORDERS						1.266		2.287				1.381
DATA						1.113		0.269				
SIM/TRAINER					[0]	0.087	[0]	1.260				10.629
SUPPORT- EQUIP						2.091		9.438				5.672
ICS-Labor								0.145				0.272
ICS-Material								0.969				
SE/PM						8.372		4.120				4.058
OGC						0.907		2.942				2.737
INSTALLATION OF HARDWARE												
FY-11 (Active)	4 KITS						[1]	2.923			[3]	6.402
FY-12 (Active)	10 KITS										[2]	4.266
FY-13 (Active)	10 KITS											
FY-14 (Active)	4 KITS											
FY-15 (Active)	4 KITS											
FY-16 (Active)	9 KITS											
FY-17 (Active)	12 KITS											
FY-18 (Active)	5 KITS											
TOTAL INSTALL								1	2.923		5	10.668
TOTAL COST (BP-1100)					4	25.178	10	38.969			10	49.279
(Totals may not add due to rounding)												
INSTALLATION QTY								1			5	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										30.367
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										30.367
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	4	0.543	4	0.552	9	1.264	17	2.440	58	8.086
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	4	0.543	4	0.552	9	1.264	17	2.440	58	8.086
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)	[4]	4.634	[4]	4.719	[9]	10.811	17	20.907	[58]	68.575
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT	[4]	4.634	[4]	4.719	[9]	10.811	[17]	20.907	[58]	68.575
EQUIP NONREC Group B (Active)		0.924		0.937		0.950		0.899		12.739
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC		0.924		0.937		0.950		0.899		12.739
CHANGE ORDERS		0.381		0.322		0.604		1.139		7.380
DATA								0.695		2.077
SIM/TRAINER	[0]	0.272	[0]	0.387	[0]	6.416	0	4.501	[0]	23.552
SUPPORT- EQUIP		5.682		0.120		0.002				23.005
ICS-Labor		0.679		1.450		1.071				3.617
ICS-Material										0.969
SE/PM		1.611		1.392		2.538		4.698		26.789
OGC		1.637		1.194		1.773		4.241		15.431
INSTALLATION OF HARDWARE										
FY-11 (Active)			4 KITS						[4]	9.325
FY-12 (Active)			10 KITS	[8]	17.400				[10]	21.666
FY-13 (Active)			10 KITS	[2]	4.353	[8]	17.200		[10]	21.553

**Continued**

		<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-14 (Active)	4 KITS					[4]	8.940			[4]	8.940
FY-15 (Active)	4 KITS					[3]	6.707	1	2.330	[4]	9.037
FY-16 (Active)	9 KITS							9	21.366	[9]	21.366
FY-17 (Active)	12 KITS							12	29.757	[12]	29.757
FY-18 (Active)	5 KITS							5	12.653	[5]	12.653
TOTAL INSTALL		10	21.753	8	17.200	7	15.647	27	66.106	58	134.297
TOTAL COST (BP-1100)		4	38.116	4	28.273	9	41.076	17	105.626	58	326.517
(Totals may not add due to rounding)											
INSTALLATION QTY		10		8		7		27		58	

Method of Implementation: Depot

Initial Lead Time: 17 Months

Follow-On Lead Time: 16 Months

**Milestones**

	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>	<u>FY-18</u>	<u>FY-19</u>
Contract Date (Month/CY)		03/11	11/11	11/12	11/13	11/14	11/15	11/16	11/17	11/18
Delivery Date (Month/CY)		07/12	03/13	03/14	03/15	03/16	03/17	03/18	03/19	03/20

**Installation Schedule**

	Quarter	<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input													1					1	3	1	0	3	5	0	2	2	2	2	2	2	2	1	2	2
Output										0	0							1	1	2	2	0	3	2	3	1	2	2	2	2	3	2	1	
	Quarter	<u>FY-17</u>				<u>FY-18</u>				<u>FY-19</u>				<u>FY-20</u>																				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																	
Input		1	1	2	2	3	2	3	2	2	2	4	1	4																				
Output		2	1	2	0	2	3	2	2	3	2	3	3	1	4	1																		

UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: B-52</b>					
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16	
<b>COST (In Mil)</b>	\$61.276	\$69.074	\$93.897	\$	\$93.897	\$130.431	\$168.301	\$127.117	\$112.639	

This line item funds modifications to the B-52H aircraft. The B-52H strategic bomber maintains nuclear and conventional taskings. The primary B-52 modifications Combat Network Communication Technology (CONNECT). The specific modifications budgeted and programmed are below.

Projected allocations for Reserve Component requirements (modification kits and installation costs, subject to Total Force mission priorities and aircraft availability):

	2009	2010	2011	2012	2013	2014	2015
Reserve	9.600	8.800	8.8000	19.200	15.300	4.600	1.500
ANG	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The program funding includes reductions for overhead efficiencies that are not intended to impact program content. The efficiencies reductions total \$4.863M in FY12.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	3265	B-52 Anti-Skid Replacement						4.6	6.7	5.9	0.9		18.2
	3266	Strategic Radar Replacement (SR2)									63.9		63.9
	3309	B-52 Extremely High Frequency (EHF)									5.9	0.0	5.9
	3310	B-52 CONNECT	2.0	41.5	82.5		82.5	94.3	138.3	118.2	39.2	247.8	770.9
	4260	ADVANCED WEAPON INTEGRATION	16.4	24.5				20.0	21.0				88.4
	6885	B- 52 TRAINERS	2.2	2.2	1.7		1.7	1.9	2.3	2.3	2.4		15.0
	6886	B-52 Structures			0.1		0.1						0.1
	6887	System Effectiveness and Evolutionary Requirements			0.1		0.1						0.1
	9709	Mode S/5 IFF			8.7		8.7	9.1	0.0				17.9
	99999X	LOW COST MODIFICATIONS	1.4	0.8	0.8		0.8	0.4	0.0	0.6	0.4		7.4
	Z88888	ADJUSTMENTS	39.3										39.3
<b>TOTAL FOR CLASS P</b>			61.3	69.1	93.9		93.9	130.4	168.3	127.1	112.6	247.8	1026.9

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

P-1 SHOPP LIST ITEM NO. 37	PAGE NO. 1
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>	<b>P-1 LINE ITEM NOMENCLATURE: B-52</b>
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<u>CLASS</u>	<u>MOD</u> <u>NR</u>	<u>MODIFICATION</u> <u>TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12OCO</u>	<u>FY-12Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST</u> <u>TO GO</u>	<u>TOTAL</u> <u>PROG</u>
<b>TOTAL FOR WEAPON SYSTEM B-52</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 37	PAGE NO. 2	
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02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. B-52 CONECT MN- 3310

CLC: B-52 Class: P

Models of Systems Affected: B-52H

Center: ASC - Wright Patterson AFB, OH

PE 0101113F

Team POWER

**Description/Justification**

The B-52 Combat Network Communication Technology (CONECT) acquisition program will support nuclear and conventional operations by upgrading the B-52 fleet with data link and voice communications capabilities along with improved threat and situational awareness to support participation in network centric operations. The CONECT upgrade installs new multi-functional color displays (MFCDS) and a digital interphone system, which will survive and function through the nuclear environment to enhance crew interaction and situational awareness. To enable net centric operations, the CONECT upgrade installs on-board client/server architecture supporting distributed processing with independent control functions; UHF Beyond Line-Of-Sight (BLOS) Joint Range Extension (JRE) capability via ARC-210 Warrior radio to exchange J-Series messaging within theater; Intelligence Broadcast Receiver; limited Internet Protocol (IP)-based UHF BLOS link supporting email and file transfers; and Improved Data Modem (IDM)-based digital Variable Message Format (VMF) datalink to significantly enhance close air support (CAS) missions. This integrated suite, when produced and installed, will provide the B-52 fleet with a machine-to-machine capability supporting aircraft re-tasking and re-targeting of Conventional Air Launched Cruise Missile (CALCM) and J-series weapons across the range of military operations the B-52 is assigned.

The change orders line includes, but is not limited to, Diminishing Manufacturing Sources (DMS) costs for the identification, review and monitoring of items with high DMS risk potential, classification of identified items according to criticality, identification of alternatives for items having high DMS risks and solutions to DMS issues, which may include non-recurring engineering (NRE)/replacement costs for DMS components, bridge buys of DMS components until NRE can be completed or Life of Type buys, whichever is most appropriate.

This modification is planned to be done in conjunction with Programmed Depot Maintenance (PDM). In addition, training devices will be upgraded to include CONECT functionality to meet user training requirements.

This program will have associated Research Development Test and Evaluation (RDT&E) funding in PE 0101113F.

Aircraft Breakdown: ACTIVE 56, RESERVE 18, ANG 0, TOTAL 74

**Development Status**

Development began in FY05. Two installation kits were procured during RDT&E. One kit was installed on the flight test aircraft. The second kit will be used as the kitproof kit in production and installed in FY13.

CONECT Flight test has resumed after going through Programmed Depot Maintenance (PDM) April - November 2010.

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)	[2]	175.497		38.198		23.543		17.875				1.991
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)	[2]	175.497		38.198		23.543		17.875				1.991
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	[0]						[6]	4.713			[9]	7.189
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)	[0]						[2]	1.571			[1]	0.799
TOTAL: INSTALL KITS	[0]						[8]	6.284			[10]	7.988
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)	0						6	23.366			9	34.096
EQUIPMENT Group B (Guard)	0											
EQUIPMENT Group B (Reserve)	0						2	7.789			1	3.788
TOTAL: EQUIPMENT	0						8	31.155			10	37.884
EQUIP NONREC Group B (Active)	[0]							15.671				7.183
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)	[0]							4.949				2.268
TOTAL: EQUIP NONREC	[0]							20.620				9.451
CHANGE ORDERS								8.192				9.141
DATA								1.500				1.300
SIM/TRAINER												
SUPPORT- EQUIP												
OGC		6.965		2.006				9.995				9.071
SIM UPDATES								4.785				17.500
LONG LEAD ITEMS												
RETROFIT KITS												
Life of Type								5.000				
AF WITHHOLD __								33.028				
INSTALLATION OF HARDWARE												
FY-12 (Active)	6 KITS											
FY-12 (Reserve)	2 KITS											
FY-13 (Active)	9 KITS											
FY-13 (Reserve)	1 KITS										[1]	2.001
FY-14 (Active)	12 KITS											
FY-14 (Reserve)	3 KITS											
FY-15 (Active)	8 KITS											
FY-15 (Reserve)	3 KITS											
FY-16 (Active)	1 KITS											
FY-17 (Active)	11 KITS											
FY-17 (Reserve)	6 KITS											

**Projected Financial Plan Continued**

		<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-18 (Active)	9 KITS												
FY-18 (Reserve)	3 KITS												
TOTAL INSTALL												1	2.001
TOTAL COST (BP-1100)		0	6.965		2.006		41.528	8	82.531			10	94.336
(Totals may not add due to rounding)													
INSTALLATION QTY												1	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		11.845		6.667					[2]	275.616
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)		11.845		6.667					[2]	275.616
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	[12]	9.749	[8]	6.610	[1]	0.840	20	17.222	[56]	46.323
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)	[3]	2.437	[3]	2.479	[0]		9	7.734	[18]	15.020
TOTAL: INSTALL KITS	[15]	12.186	[11]	9.089	[1]	0.840	[29]	24.956	[74]	61.343
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)	12	46.234	8	31.347	1	3.985	20	81.643	56	220.671
EQUIPMENT Group B (Guard)									0	
EQUIPMENT Group B (Reserve)	3	11.558	3	11.755	0		9	36.681	18	71.571
TOTAL: EQUIPMENT	15	57.792	11	43.102	1	3.985	29	118.324	74	292.242
EQUIP NONREC Group B (Active)									[0]	22.854
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)									[0]	7.217
TOTAL: EQUIP NONREC									[0]	30.071
CHANGE ORDERS		10.942		15.463		1.243		10.273		55.254
DATA		3.000		2.900		2.550		2.800		14.050
SIM/TRAINER										
SUPPORT- EQUIP										
OGC		24.179		20.207		8.570		47.558		128.551
SIM UPDATES		20.255		8.560						51.100
LONG LEAD ITEMS										3.500
RETROFIT KITS					[18]	9.729			[18]	9.729
Life of Type										5.000
AF WITHHOLD__										33.028
INSTALLATION OF HARDWARE										
FY-12 (Active)	6 KITS	[6]	6.627						[6]	6.627

**Continued**

		<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-12 (Reserve)	2 KITS	[2]	2.209							[2]	2.209
FY-13 (Active)	9 KITS	[1]	1.104	[8]	8.906					[10]	12.011
FY-13 (Reserve)	1 KITS			[1]	1.113					[1]	1.113
FY-14 (Active)	12 KITS			[6]	6.678	[6]	6.681			[12]	13.359
FY-14 (Reserve)	3 KITS			[2]	2.226	[1]	1.114			[3]	3.340
FY-15 (Active)	8 KITS					[4]	4.454	4	4.547	[8]	9.001
FY-15 (Reserve)	3 KITS							3	3.411	[3]	3.411
FY-16 (Active)	1 KITS							1	1.161	[1]	1.161
FY-17 (Active)	11 KITS							11	13.074	[11]	13.074
FY-17 (Reserve)	6 KITS							6	7.176	[6]	7.176
FY-18 (Active)	9 KITS							9	10.878	[9]	10.878
FY-18 (Reserve)	3 KITS							3	3.624	[3]	3.624
TOTAL INSTALL		9	9.940	17	18.923	11	12.249	37	43.871	75	86.984
TOTAL COST (BP-1100)		15	138.294	11	118.244	1	39.166	29	247.782	74	770.852
(Totals may not add due to rounding)											
INSTALLATION QTY		9		17		11		37		75	

Method of Implementation: Combination

Initial Lead Time: 22 Months

Follow-On Lead Time: 16 Months

**Milestones**

	<u>FY-04</u>	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>	<u>FY-18</u>
Contract Date (Month/CY)									06/12	06/13	06/14	06/15	06/16	06/17	06/18
Delivery Date (Month/CY)									04/14	10/14	10/15	10/16	10/17	10/18	10/19

**Installation Schedule**

	<u>FY-04</u>				<u>FY-05</u>				<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																
Output																																

  

	<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>				<u>FY-17</u>				<u>FY-18</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input									1					5	4		3	4	5	5	3	3	3	2	4	3			1			
Output										1							3	4	4	3	5	4	4	4	4	4	3	2	1	1	1	

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Mode S/5 IFF MN- 9709

CLC: B-52 Class: P

Models of Systems Affected: B-52H

Center: OC-ALC - Tinker AFB Okla City, OK

PE 0101113F

Team POWER

**Description/Justification**

The B-52's overarching Communication Navigation & Surveillance/Air Traffic Management (CNS/ATM) effort will develop and integrate modern technologies to enable the aircraft to operate in the evolving air traffic environment. The requirement for these updated technologies is driven by the International Civil Aviation Organization (ICAO) and Federal Aviation Administration (FAA) mandates. Aircraft not equipped with appropriate capabilities will not be able to operate in airspace where new separation standards and air traffic management procedures are implemented. An additional benefit is the significant fuel savings that will result in being able to fly at optimum and more efficient routes and altitudes. DoD mandates dictate replacement of the B-52's APX-64 IFF (Identification Friend or Foe) with a modern Mode S transponder that is upgradeable to Mode 5 capability. Additionally, the current B-52 IFF is experiencing Diminishing Manufacturing Sources (DMS) shortfalls, particularly with the support equipment (SE). These shortfalls will limit B-52 combat operations due to an IFF that is inoperable or in unknown status. This effort will integrate modern IFF technology into the B-52 by replacing the current system with the APX-119.

The integration of the APX-119 and Common Control Panel could leverage capabilities to include simultaneous integration of the Automatic Dependent Surveillance - Broadcast (ADS-B) capability required for operations in European airspace by 2015 and CONUS by 2020.

This program has associated Research, Development, Test & Evaluation (RDT&E) funding in PE 0101113F.

Two installation kits will be procured during RDT&E for installation on test aircraft.

The Air Force budget is based on a Total Aircraft Inventory (TAI) of 76, though currently only funded for 71.

Projected Allocations by Component (Subject to Total Force mission priorities and aircraft availability).

Kit Procurement	FY12	FY13	TOTAL
Active	38	18	56
Reserve	13	13	

**Install Schedule**

Active	48	8	56
Reserve		13	13

Aircraft Breakdown: ACTIVE 58, RESERVE 13, ANG 0, TOTAL 71

**Development Status**

Developmental activities begin in FY11.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)					[2]	8.583		6.166				
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)					[2]	8.583		6.166				
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)					0							
INSTALL KITS Group A (Guard)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
INSTALL KITS Group A (Reserve)					0							
TOTAL: INSTALL KITS					0							
KITS NONRECUR Group A (Active)					0		38	8.300			18	4.144
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)					0						13	2.600
TOTAL: KITS NONRECUR					0		38	8.300			31	6.744
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA								0.275				
SIM/TRAINER							[0]	0.100				
SUPPORT- EQUIP												
TEST												
PMA								0.050				
INSTALLATION OF HARDWARE												
FY-12 (Active)	38 KITS										[38]	1.900
FY-13 (Active)	18 KITS										[10]	0.500
FY-13 (Reserve)	13 KITS											
TOTAL INSTALL											48	2.400
TOTAL COST (BP-1100)					0		38	8.725			31	9.144
(Totals may not add due to rounding)												
INSTALLATION QTY											48	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)									[2]	14.749
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)									[2]	14.749
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									0	
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)									0	
TOTAL: INSTALL KITS									0	
KITS NONRECUR Group A (Active)									56	12.444
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)									13	2.600
TOTAL: KITS NONRECUR									69	15.044
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										0.275
SIM/TRAINER	[1]								[1]	0.100
SUPPORT- EQUIP										
TEST										
PMA										0.050
INSTALLATION OF HARDWARE										
FY-12 (Active)	38 KITS								[38]	1.900
FY-13 (Active)	18 KITS	[8]	0.000						[18]	0.500
FY-13 (Reserve)	13 KITS	[13]	0.000						[13]	0.000
TOTAL INSTALL		21	0.000						69	2.400
TOTAL COST (BP-1100)			0.000						69	17.869

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
(Totals may not add due to rounding)										
INSTALLATION QTY	21								69	

Method of Implementation: Combination

Initial Lead Time: 5 Months

Follow-On Lead Time: 5 Months

**Milestones**

	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>
Contract Date (Month/CY)			04/12	01/13
Delivery Date (Month/CY)			09/12	06/13

**Installation Schedule**

Quarter	<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																	12	12	12	12	12	9		
Output																	12	12	12	12	12	9		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: A-10</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$261.709	\$181.861	\$153.128	\$0.000	\$153.128	\$151.434	\$134.537	\$0.000	\$0.000

FY2010 funding totals include \$10M appropriated for Overseas Contingency Operations. FY2011 funding totals include \$16.5M requested for Overseas Contingency Operations. This line item funds modifications to the A-10 aircraft. The A-10 is a twin engine, single seat, close air support aircraft capable of delivering a full range of air-to-ground munitions as well as self defense air-to-air missiles. The primary modification budgeted in FY12 is the A-10 Wing Replacement mod. The specific modifications budgeted and programmed are below. Projected allocations for Reserve Component requirements (modification kits and installation costs, subject to Total Force mission priorities and aircraft availability):

	2010	2011	2012	2013	2014	2015	2016
AFR	67.200	29.500	28.300	28.700	25.000	0	0
ANG	64.900	46.000	42.600	43.400	39.200	0	0

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	37120	DIGITAL DATA LINK	8.9	0.7	0.7		0.7						55.1
	6907	TEMS/ADR			6.7		6.7	7.3					14.0
	7856	MODE S/5	6.9	4.4									32.5
	9604	Extended Duration Covert Infrared Countermeasures System	10.0	16.5									63.7
	9804	A-10 Wing Replacement Program	199.7	152.0	145.8		145.8	144.2	134.5				1011.7
	9805	PRECISION ENGAGEMENT	35.7	8.3									383.1
	99999X	LOW COST MODIFICATIONS	0.5	0.0									0.9
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			261.7	181.9	153.1		153.1	151.4	134.5				1561.0
<b>TOTAL FOR WEAPON SYSTEM A-10</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

P-1 SHOPP LIST ITEM NO. 38	PAGE NO. 1
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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. TEMS/ADR MN- 6907

Models of Systems Affected: A-10

Center: OO-ALC - Hill AFB, UT

PE 0207131F

CLC: A-10 Class: P  
Team POWER

**Description/Justification**

This modification is a FY12 New Start.

When implemented fleet wide the -50 Improved Electronic Processor Unit (IEPU) will allow compliance with MIL-STD-1530C. This military standard requires the A-10 fleet to have an onboard data collection system to record usage data and flight parameters necessary for analyzing damage growth rates throughout the A-10 structure. This will allow engineers to identify, monitor and predict fatigue damage in wing and fuselage structure. This program will also fulfill the Chief of Staff, United States Air Force (CSAF) requirement to have airborne data recorders. Additionally, the reported parameters will allow Aircraft Structural Integrity Program (ASIP) engineers to prioritize and predict maintenance candidates for eventual fuselage/empennage repairs. This program will upgrade the entire fleet of 346 aircraft, upgrade the Sheppard AFB maintenance trainer, and fund 34 spares.

Implementing -50 IEPU fleetwide should resolve Mission Capability (MICAPS) in the AOR. Failing Electronic Processor Units (EPUs) and IEPUs and the wiring associated with the units have amounted to 55,936 hrs of MX delays and downtime since Sep 01. With the -50 IEPU, the MX community will receive high resolution engine data which will allow for precision engine diagnostics. Additionally, you will see a decrease in MICAP hours resulting in an increase in combat ready A-10s across the AF fleet.

The Turbine Engine Monitoring System/Airborne Data recorder (TEMS/ADR) -50 configuration is required to resolve both obsolescence and reliability challenges inherent with the current -30 IEPU and Electronic Processor Unit (EPU) in the fleet. The following identifies specific improvements provided by the -50 IEPU:

1. The new configuration (-50) for the IEPU will resolve current DMS issues facing the -30 configuration. Additionally, this action will provide spare IEPUs needed for fleet sustainment.
2. Increased reliability (MTBF) by integrating improved technology along with state-of-the-art electronic components designed for aerospace applications.
3. MICAP rates for the IEPU will significantly decrease with spare SRUs available for use during overhaul of the IEPU.
4. The ability to maintain the A-10 fleet by prioritizing and predicting maintenance candidates for required repairs will result in three distinct savings for the AF:
  - i. Increase in time between Depot inspection by 15%
  - ii. Increase Aircraft Availability of .75
  - iii. Save \$25million/year in Service Life Extension Program/Scheduled Structural Inspection depot costs

Projected Allocations by Component (subject to Total Force mission priorities and aircraft availability):

Kit Procurement	FY12	FY13
Active	95	100
Guard	42	54
Reserve	25	30

Installation Schedule		
Active	95	100
Guard	42	54
Reserve	25	30

Aircraft Breakdown: ACTIVE 195, RESERVE 55, ANG 96, TOTAL 346

**Development Status**

First year of procurement is ready in FY12.

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	0						95				100	
INSTALL KITS Group A (Guard)	0						42				54	
INSTALL KITS Group A (Reserve)	0						25				30	
TOTAL: INSTALL KITS	0						162				184	
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)	[0]						[95]	3.202			[100]	3.348
EQUIPMENT Group B (Guard)	[0]						[42]	1.416			[54]	1.808
EQUIPMENT Group B (Reserve)	[0]						[25]	0.843			[30]	1.004
TOTAL: EQUIPMENT	[0]						[162]	5.461			[184]	6.160
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS								0.370				
DATA												
SIM/TRAINER												
SUPPORT- EQUIP							[0]	0.810				
SPARES											[33]	1.124
OGC								0.046				
INSTALLATION OF HARDWARE												
FY-12 (Active)		95 KITS					[95]					
FY-12 (Guard)		42 KITS					[42]					
FY-12 (Reserve)		25 KITS					[25]					
FY-13 (Active)		100 KITS									[100]	
FY-13 (Guard)		54 KITS									[54]	
FY-13 (Reserve)		30 KITS									[30]	
TOTAL INSTALL							162				184	

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TOTAL COST (BP-1100) (Totals may not add due to rounding)	0	162	6.686	184	7.284
INSTALLATION QTY		162		184	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									195	
INSTALL KITS Group A (Guard)									96	
INSTALL KITS Group A (Reserve)									55	
TOTAL: INSTALL KITS									346	
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)									[195]	6.550
EQUIPMENT Group B (Guard)									[96]	3.223
EQUIPMENT Group B (Reserve)									[55]	1.847
TOTAL: EQUIPMENT									[346]	11.620
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										0.370
DATA										
SIM/TRAINER										
SUPPORT- EQUIP									[0]	0.810
SPARES									[33]	1.124
OGC										0.046
INSTALLATION OF HARDWARE										
FY-12 (Active)		95 KITS							[95]	
FY-12 (Guard)		42 KITS							[42]	
FY-12 (Reserve)		25 KITS							[25]	
FY-13 (Active)		100 KITS							[100]	
FY-13 (Guard)		54 KITS							[54]	

**Continued**

	30 KITS	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-13 (Reserve)										[30]	
TOTAL INSTALL										346	
TOTAL COST (BP-1100)										346	13.970
(Totals may not add due to rounding)											
INSTALLATION QTY										346	

Method of Implementation: Combination

Initial Lead Time: 1 Months

Follow-On Lead Time: 1 Months

**Milestones**

	<u>FY-01</u>	<u>FY-02</u>	<u>FY-03</u>	<u>FY-04</u>	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>
Contract Date (Month/CY)												10/11	10/12
Delivery Date (Month/CY)												11/11	11/12

**Installation Schedule**

Quarter	<u>FY-01</u>				<u>FY-02</u>				<u>FY-03</u>				<u>FY-04</u>				<u>FY-05</u>				<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																
Output																																

  

Quarter	<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input													40	41	40	41					46	46	46	46
Output									40	41	40	41					46	46	46	46				

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. A-10 Wing Replacement Program MN- 9804

CLC: A-10 Class: P

Models of Systems Affected: A-10

Center: OO-ALC - Hill AFB, UT

PE 0207131F

Team POWER

**Description/Justification**

The Wing Replacement program procures replacement wings for the A-10 because the cost of sustaining A-10 thin-skin wings has exceeded economic limits. The Fleet Viability Board estimated a \$1.3 billion cost avoidance by replacing the thin-skin wings instead of repairing them. To increase the aircraft service life, A-10 thin-skin wings must be replaced with thick-skin wings similar to those used on the last third of the production aircraft. The replacement wings will meet the A-10 operational requirement to extend the aircraft's service life to 16,000 hours.

The replacement wings will incorporate reliability and maintainability improvements to known fatigue critical locations. With these improvements, the wings will not require major structural inspections for the first 10,000 hours of service life.

The replacement wings will be installed as part of the O&M-funded Scheduled Structural Inspections (SSI) to the furthest extent possible. In order to ensure the cost effectiveness of replacing the wings, the Wing Replacement Program must procure a minimum of 40 wings per year to garner economies of scale built into the Firm Fixed Price (FFP) contract.

Aircraft Breakdown: ACTIVE 106, RESERVE 41, ANG 83, TOTAL 230

**Development Status**

The Wing Replacement Program conducted and closed out the Critical Design Review October 2009; therefore, the replacement wing design changes and 3-D models reached sufficient maturity to begin procurement of parts and assembly of the First Article.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		2.811										
RDT & E (3600) (Guard)		1.735										
RDT & E (3600) (Reserve)		1.149										
Total RDT & E (3600)		5.695										
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	15	0.083	23	0.119	19	0.117	20	0.123			19	0.123
INSTALL KITS Group A (Guard)	8	0.047	15	0.077	13	0.080	12	0.074			11	0.074
INSTALL KITS Group A (Reserve)	5	0.028	11	0.057	8	0.049	8	0.049			7	0.049
TOTAL: INSTALL KITS	28	0.158	49	0.253	40	0.246	40	0.246			37	0.246
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)	[15]	110.096	[23]	84.512	[19]	65.933	[20]	68.570			[19]	69.569
EQUIPMENT Group B (Guard)	[8]	53.193	[15]	55.117	[13]	45.112	[12]	41.142			[11]	40.277
EQUIPMENT Group B (Reserve)	[5]	36.081	[11]	40.419	[8]	27.761	[8]	27.428			[7]	25.631

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL: EQUIPMENT	[28]	199.370	[49]	180.048	[40]	138.806	[40]	137.140			[37]	135.477
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS		7.663		11.012		7.907		7.164				6.873
DATA		0.124		2.063								
SIM/TRAINER												
SUPPORT- EQUIP												
OGC		8.161		3.500		2.815		0.894				1.053
OTHER		20.010		2.810		2.250		0.325				0.502
INSTALLATION OF HARDWARE												
FY-07 (Active)	3 KITS				[3]							
FY-07 (Guard)	1 KITS				[1]							
FY-07 (Reserve)	1 KITS				[1]							
FY-08 (Active)	4 KITS				[4]							
FY-08 (Guard)	2 KITS				[2]							
FY-08 (Reserve)	1 KITS				[1]							
FY-09 (Active)	8 KITS							[8]				
FY-09 (Guard)	5 KITS							[5]				
FY-09 (Reserve)	3 KITS							[2]				
FY-10 (Active)	23 KITS							[22]			[1]	
FY-10 (Guard)	15 KITS							[11]			[4]	
FY-10 (Reserve)	11 KITS										[11]	
FY-11 (Active)	19 KITS										[19]	
FY-11 (Guard)	13 KITS										[12]	
FY-11 (Reserve)	8 KITS											
FY-12 (Active)	20 KITS											
FY-12 (Guard)	12 KITS											
FY-12 (Reserve)	8 KITS											
FY-13 (Active)	19 KITS											
FY-13 (Guard)	11 KITS											

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-13 (Reserve)	7 KITS											
FY-14 (Active)	10 KITS											
FY-14 (Guard)	24 KITS											
FY-14 (Reserve)	2 KITS											
TOTAL INSTALL					13		48				47	
TOTAL COST (BP-1100) (Totals may not add due to rounding)	28	235.485	49	199.686	40	152.025	40	145.768			37	144.150
INSTALLATION QTY					13		48				47	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										2.811
RDT & E (3600) (Guard)										1.735
RDT & E (3600) (Reserve)										1.149
Total RDT & E (3600)										5.695
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	10	0.067							106	0.631
INSTALL KITS Group A (Guard)	24	0.160							83	0.512
INSTALL KITS Group A (Reserve)	2	0.013							41	0.245
TOTAL: INSTALL KITS	36	0.240							230	1.388
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)	[10]	35.597							[106]	434.277
EQUIPMENT Group B (Guard)	[24]	85.433							[83]	320.273
EQUIPMENT Group B (Reserve)	[2]	7.119							[41]	164.439
TOTAL: EQUIPMENT	[36]	128.149							[230]	918.989
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS		5.411								46.030
DATA										2.187
SIM/TRAINER										
SUPPORT- EQUIP										
OGC		0.618								17.041
OTHER		0.118								26.015
INSTALLATION OF HARDWARE										
FY-07 (Active)	3 KITS								[3]	
FY-07 (Guard)	1 KITS								[1]	
FY-07 (Reserve)	1 KITS								[1]	
FY-08 (Active)	4 KITS								[4]	
FY-08 (Guard)	2 KITS								[2]	

**Continued**

		<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-08 (Reserve)	1 KITS									[1]	
FY-09 (Active)	8 KITS									[8]	
FY-09 (Guard)	5 KITS									[5]	
FY-09 (Reserve)	3 KITS									[3]	
FY-10 (Active)	23 KITS									[23]	
FY-10 (Guard)	15 KITS									[15]	
FY-10 (Reserve)	11 KITS									[11]	
FY-11 (Active)	19 KITS									[19]	
FY-11 (Guard)	13 KITS	[1]								[13]	
FY-11 (Reserve)	8 KITS	[8]								[8]	
FY-12 (Active)	20 KITS	[15]		[5]						[20]	
FY-12 (Guard)	12 KITS	[12]								[12]	
FY-12 (Reserve)	8 KITS	[2]		[6]						[8]	
FY-13 (Active)	19 KITS	[2]		[17]						[19]	
FY-13 (Guard)	11 KITS			[7]		[4]				[11]	
FY-13 (Reserve)	7 KITS			[2]		[5]				[7]	
FY-14 (Active)	10 KITS					[6]		4		[10]	
FY-14 (Guard)	24 KITS					[19]		5		[24]	
FY-14 (Reserve)	2 KITS					[2]		0		[2]	
<b>TOTAL INSTALL</b>		<b>40</b>		<b>37</b>		<b>36</b>		<b>9</b>		<b>230</b>	
<b>TOTAL COST (BP-1100)</b>		<b>36</b>	<b>134.537</b>							<b>230</b>	<b>1011.651</b>
(Totals may not add due to rounding)											
<b>INSTALLATION QTY</b>		<b>40</b>		<b>37</b>		<b>36</b>		<b>9</b>		<b>230</b>	

Method of Implementation: Depot

Initial Lead Time: 39 Months

Follow-On Lead Time: 24 Months

**Milestones**

	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>
Contract Date (Month/CY)	06/07	01/08	02/09	01/10	01/11	01/12	01/13	01/14	
Delivery Date (Month/CY)	03/11	08/11	09/11	01/12	02/13	01/14	01/15	01/16	

**Installation Schedule**

	<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>							
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Input																																				
Output																					5	8	12	12	12	12	12	12								
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																
Input	12	12	12	11	9	12	10	9	9	10	9	9	9	9	9	9	9	9	9	9																
Output	12	12	12	11	9	12	10	9	9	10	9	9	9	9	9	9	9	9	9	9																

UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: F-15</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$152.163	\$302.235	\$222.386	\$0.000	\$222.386	\$327.500	\$339.060	\$354.666	\$389.868

FY 2010 funding totals include \$40.166M appropriated for Overseas Contingency Operations.

This line item funds modifications to the F-15 aircraft. The F-15A/B/C/D is a twin engine, single seat, supersonic, all-weather, day/night, air-superiority fighter. The F-15E is a twin engine, two seat, supersonic dual-role, day/night, all-weather, deep interdiction fighter with multi-role air-to-air capabilities. The overall goals of the budgeted modifications are to improve operational capability, reliability and maintainability, and flight safety. The primary modifications in FY 2012 are the F-15C/D APG-63(V)3 radar upgrade and the F-15E APG-82(V)1 RMP radar upgrade. The specific modifications budgeted and programmed are below.

Projected allocations for Reserve Component requirements (modification kits and installation costs, subject to Total Force mission priorities and aircraft availability):

	2010	2011	2012	2013	2014	2015	2016
AFR	0	0	0	0	0	0	0
ANG	0	0	0.800	0	0	0	0

This program has associated Research Development Test and Evaluation (RDT&E) in PE 0204134F.

The program funding includes reductions for overhead reduction efficiencies that are not intended to impact program content. The efficiencies reductions total \$3.377M in FY12.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	_1200	F-15C Avionics Replacement	7.8	31.1	8.7		8.7						47.6
	_1202	F-15E AESA Radar	0.0	89.8	99.8		99.8	151.2	162.7	183.8	218.7	28.4	934.4
	_1202B	Advanced Display Core Processor, ADCP II-E						2.1	8.7	9.6	9.8	0.2	30.6
	1203	C/D Secondary Power System	1.3	1.3	1.2	0.0	1.2	1.2	1.6	0.0	0.0	0.0	6.7
	1204	E Secondary Power System	1.6	1.6	1.5	0.0	1.5	1.5					6.2
	1205	:Advanced Display Core Processor, ADCP II-C		0.0				15.4	26.2	25.5	25.7	1.9	94.7

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

P-1 SHOPP LIST ITEM NO. 39	PAGE NO. 1
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**BUDGET ITEM JUSTIFICATION  
(EXHIBIT P-40)**

**DATE:** February 2011

**APPROPRIATION/BUDGET ACTIVITY:  
AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications**

**P-1 LINE ITEM NOMENCLATURE: F-15**

CLASS	MOD NR	MODIFICATION TITLE	FY-10	FY-11	FY-12	FY-12		FY-13	FY-14	FY-15	FY-16	COST TO GO	TOTAL PROG
						CO	Total						
	1207	F-15E M-Code GPS								3.0	4.3	6.9	14.2
	1209	C/D Flight Data Recorder (FDR)	10.5	10.7	10.3		10.3	2.0	2.0				35.5
	1210	F-15E Flight Data Recorder (FDR)	10.6	11.8	10.9		10.9	1.8	1.7				36.7
	6157	Antenna Test Station	2.5										19.2
	6158	F-15C/D APG-63(V)3 radar upgrade	31.6	96.6	46.4		46.4	116.3	128.8	125.4	123.8	9.4	1043.8
	8353	F-15E -JOINT HELMET-MOUNTED CUEING SYSTEM	32.7										65.7
	8662	AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	1.0	1.0	0.8		0.8	0.9	1.0	1.1	1.1		8.6
	8703	F-15 A/D DIGITAL VIDEO RECORDER	5.4	13.7	2.0		2.0						21.0
	8705	F-15E DIGITAL VIDEO RECORDER	6.1	3.6	2.6		2.6	1.5					30.8
	8742	TEWS INTERMEDIATE SUPPORT SYSTEM (TISS) A-E	2.5	8.7									31.8
	8755	E IFF MODE 5	14.0	29.6	14.0		14.0						57.6
	8756	Link 16 Cryptographic Modernization (CMI)							6.3	6.3	6.4		19.0
	8793	F-15E BLOS/SLOS	7.5										59.6
	8794	F-15C/D BLOS			24.1		24.1	33.5					57.6
	99999U	LOW COST RETROFIT MODS	0.0	2.0	0.0		0.0						5.8
	99999X	LOW COST MODIFICATIONS	0.0	0.8	0.0		0.0						5.8
	Z88888	ADJUSTMENTS	17.2										17.2
<b>TOTAL FOR CLASS P</b>			152.2	302.2	222.4	0.0	222.4	327.5	339.1	354.7	389.9	46.9	2650.2

**TOTAL FOR WEAPON SYSTEM F-15**

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 39	PAGE NO. 2	
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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. F-15C Avionics Replacement MN- \_1200

CLC: F-15 Class: P

Models of Systems Affected: F-15C/D

Center: ASC - Wright Patterson AFB, OH

PE 0207130F

Team AIR

**Description/Justification**

The F-15 cockpit remains relatively unchanged since its fielding in 1975. Since the initial fielding, additional capabilities have been added that have completely filled the available console space. Therefore there is no space to incorporate control for the 8.33 KHz channel spacing of the VHF radio required for operation in Europe or any future additional capabilities. This program was initiated with the intent to replace obsolete, unsupported avionics control panels, and provide full control of the ARC-210 software controlled radio as well as modification and replacement of hardware and software to reduce aircrew workload and increase situational awareness. The program addresses the Navigation Control Indicator (NCI) and Integrated Communication Control Panel (ICCP) as well as the corresponding MIL-STD 1553 Data Bus needed for future growth. The program will address cockpit avionics and supporting subsystems that restrict capabilities and/or degrade aircrew effectiveness and/or safety. The end state shall address both sustainment and modernization needs with efficiency.

Aircraft Breakdown: ACTIVE 98, RESERVE 0, ANG 78, TOTAL 176

**Development Status**

Development of both NCI and ICCP are nearing completion. The NCI has finished Engineering Test and Evaluation and Critical Design Review. The ICCP is currently in Engineering Test and Evaluation and is scheduled for Critical Design Review.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)												
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS												
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)		0			98	15.190	0	0.000				
EQUIPMENT Group B (Guard)		0			20	3.100	58	6.734				
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT		0			118	18.290	58	6.734				
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
CHANGE ORDERS						0.353		0.436				
SIM/TRAINER			[0]	1.400	[0]	2.400	[0]	0.000				
SUPPORT- EQUIP			[0]	0.000	[0]	0.203	[0]	0.000				
ICS			[0]	0.000	[0]	1.000	[0]	1.000				
DATA			[0]	5.204	[0]	1.855	[0]	0.000				
INSTALL KITS					[0]	0.000		0.000				
SPARES						3.702						
PMA				0.943		2.394		0.283				
OTHER				0.250								
OGC						0.872		0.283				
<b>TOTAL COST (BP-1100)</b>	<b>0</b>			<b>7.797</b>	<b>118</b>	<b>31.069</b>	<b>58</b>	<b>8.736</b>				
(Totals may not add due to rounding)												
INSTALLATION QTY					108		68					

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS										
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)									98	15.190
EQUIPMENT Group B (Guard)									78	9.834
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT									176	25.024
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										0.789
SIM/TRAINER									[0]	3.800
SUPPORT- EQUIP									[0]	0.203
ICS									[0]	2.000
DATA									[0]	7.059
INSTALL KITS									[0]	0.000
SPARES										3.702
PMA										3.620
OTHER										0.250
OGC										1.155
TOTAL COST (BP-1100)									176	47.602
(Totals may not add due to rounding)										

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
INSTALLATION QTY									176	

Method of Implementation: Org/Intermediate

Initial Lead Time: 1 Months

Follow-On Lead Time: 1 Months

**Milestones**

	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>
Contract Date (Month/CY)				10/10	10/11
Delivery Date (Month/CY)				11/10	11/11

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. F-15E AESA Radar MN- \_1202

Models of Systems Affected: F-15E

Center: ASC - Wright Patterson AFB, OH

PE 0207134F

CLC: F-15 Class: P  
Team POWER

**Description/Justification**

F-15E Radar Modernization Program (RMP), designated the APG-82(V)1, replaces the entire radar using existing technology from other DOD platforms. It solves parts obsolescence problems and provides improved reliability and performance (increased synthetic aperture radar (SAR) range and resolution), including air-to-air and air-to-ground modes. Also provides for future growth. Total aircraft requirement: 222.

This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0207134F.

Aircraft Breakdown: ACTIVE 222, RESERVE 0, ANG 0, TOTAL 222

**Development Status**

RMP completed Critical Design Review (CDR) 1Q FY10. Modification Readiness Review completed 4Q FY10. Production Readiness Review planned 2Q FY11. Milestone C planned 3Q FY11.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		97.183		151.964		81.430		33.352				1.351
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)		97.183		151.964		81.430		33.352				1.351
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)			[0]		[6]	12.062	[8]	16.355			[16]	33.266
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS			[0]		[6]	12.062	[8]	16.355			[16]	33.266
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)			0		6	29.640	8	35.601			16	66.730
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT			0		6	29.640	8	35.601			16	66.730
EQUIP NONREC Group B (Active)			[0]	0.000		12.243		8.526				7.361
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC			[0]	0.000		12.243		8.526				7.361
CHANGE ORDERS						13.582		11.604				10.717

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
DATA						4.871		4.954				4.030
SIM/TRAINER												
SUPPORT- EQUIP								1.333				2.711
DEPOT STAND-UP												
ICS												1.937
TRAINING								3.303				1.679
PROGRAM MNGMT						13.735		13.968				14.205
OGC						2.177		2.521				4.015
PMA						1.451		1.681				2.676
INSTALLATION OF HARDWARE												
FY-11 (Active)	6 KITS										[3]	1.886
FY-12 (Active)	8 KITS											
FY-13 (Active)	16 KITS											
FY-14 (Active)	18 KITS											
FY-15 (Active)	20 KITS											
FY-16 (Active)	24 KITS											
TOTAL INSTALL											3	1.886
TOTAL COST (BP-1100)			0	0.000	6	89.761	8	99.846			16	151.213
(Totals may not add due to rounding)												
INSTALLATION QTY											3	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										365.280
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										365.280
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	[18]	38.061	[20]	43.009	[24]	52.488			[92]	195.241
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	[18]	38.061	[20]	43.009	[24]	52.488			[92]	195.241
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)	18	75.268	20	83.855	24	101.019			92	392.113
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT	18	75.268	20	83.855	24	101.019			92	392.113
EQUIP NONREC Group B (Active)		1.510		1.540		1.698			[0]	32.878
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC		1.510		1.540		1.698			[0]	32.878
CHANGE ORDERS		9.091		12.269		10.361				67.624
DATA		6.148		5.211		5.299				30.513
SIM/TRAINER										
SUPPORT- EQUIP		1.379		2.804		2.852				11.079
DEPOT STAND-UP										
ICS		3.161		4.361		5.476				14.935
TRAINING		3.416		1.737		1.766				11.901
PROGRAM MNGMT		11.557		11.754		11.953				77.172
OGC		4.388		4.901		5.953				23.955
PMA		2.925		3.267		3.968				15.968
INSTALLATION OF HARDWARE										
FY-11 (Active)	6 KITS	[3]	1.918						[6]	3.804

**Continued**

		<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-12 (Active)	8 KITS	[6]	3.835	[2]	1.300					[8]	5.135
FY-13 (Active)	16 KITS			[12]	7.802	[4]	2.645			[16]	10.447
FY-14 (Active)	18 KITS					[18]	11.901			[18]	11.901
FY-15 (Active)	20 KITS					[2]	1.322	18	12.099	[20]	13.421
FY-16 (Active)	24 KITS							24	16.337	[24]	16.337
TOTAL INSTALL		9	5.753	14	9.102	24	15.868	42	28.436	92	61.045
TOTAL COST (BP-1100)		18	162.657	20	183.810	24	218.701		28.436	92	934.424
(Totals may not add due to rounding)											
INSTALLATION QTY		9		14		24		42		92	

Method of Implementation: Combination

Initial Lead Time: 18 Months

Follow-On Lead Time: 18 Months

**Milestones**

	<u>FY-04</u>	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>
Contract Date (Month/CY)								09/11	03/12	01/13	01/14	12/14	12/15
Delivery Date (Month/CY)								03/13	09/13	07/14	07/15	06/16	06/17

**Installation Schedule**

	<u>FY-04</u>				<u>FY-05</u>				<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																
Output																																

  

	<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>				<u>FY-17</u>				<u>FY-18</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input											3	0	2	2	2	3	3	3	4	4	5	5	7	7	7	7	5	7	5	5	7	6
Output											3	0	2	2	2	3	3	3	4	4	5	5	7	7	7	7	5	7	5	5	7	6

02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. C/D Flight Data Recorder (FDR) MN- 1209

CLC: F-15 Class: P

Models of Systems Affected: F-15C/D

Center: WRALC Robins AFB GA

PE 0207130F

Team AIR

**Description/Justification**

The Flight Data Recorder (FDR) program provides the F-15C/D aircraft with a Flight Data Recorder and crash survivable memory unit to assist in mishap investigation boards, provide high fidelity fleet life management capability, and support the Aircraft Structural Integrity Program (ASIP). FDR is required to comply with Air Force Policy Directive (AFPD) 63-1 by providing crash survivable information to support mishap investigation and support the Aircraft Information Program (AIP). FDR is also required to comply with Air Force Instruction (AFI) 63-1001 by providing ASIP information, and individual aircraft usage information.

Aircraft Breakdown: ACTIVE 120, RESERVE 0, ANG 130, TOTAL 250

**Development Status**

Development contract awarded September 2009, with work completed in September 2010.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	[0]		[51]	0.867	[69]	1.173						
INSTALL KITS Group A (Guard)	[0]		[82]	1.394	[48]	0.816						
INSTALL KITS Group A (Reserve)	[0]											
TOTAL: INSTALL KITS	[0]		[133]	2.261	[117]	1.989						
KITS NONRECUR Group A (Active)	[0]		[51]	0.078	[69]	0.104						
KITS NONRECUR Group A (Guard)	[0]		[82]	0.122	[48]	0.072						
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR	[0]		[133]	0.200	[117]	0.176						
EQUIPMENT Group B (Active)	0		51	2.703	69	3.657						
EQUIPMENT Group B (Guard)	0		82	4.346	48	2.544						
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT	0		133	7.049	117	6.201						
EQUIP NONREC Group B (Active)	[0]											
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC	[0]											

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
CHANGE ORDERS				0.600								
DATA												
SIM/TRAINER												
SUPPORT- EQUIP						0.262						
*** See Remarks ***				0.050								
TRAINING								2.096				
CONTRACT NEG				0.306								
ICS								2.000				1.200
DEPOT								4.696				0.306
OGC				0.000		0.500		0.896				0.000
PMA				0.034		0.896		0.018				0.494
INSTALLATION OF HARDWARE												
FY-10 (Active)	51 KITS				[51]	0.265						
FY-10 (Guard)	82 KITS				[82]	0.427						
FY-11 (Active)	69 KITS							[69]	0.349			
FY-11 (Guard)	48 KITS							[48]	0.259			
TOTAL INSTALL						133	0.692	117	0.608			
TOTAL COST (BP-1100)	0		133	10.500	117	10.716		10.314				2.000
(Totals may not add due to rounding)												
INSTALLATION QTY						133		117				

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									[120]	2.040
INSTALL KITS Group A (Guard)									[130]	2.210
INSTALL KITS Group A (Reserve)									[0]	
TOTAL: INSTALL KITS									[250]	4.250
KITS NONRECUR Group A (Active)									[120]	0.182
KITS NONRECUR Group A (Guard)									[130]	0.194
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									[250]	0.376
EQUIPMENT Group B (Active)									120	6.360
EQUIPMENT Group B (Guard)									130	6.890
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT									250	13.250
EQUIP NONREC Group B (Active)									[0]	
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[0]	
CHANGE ORDERS										0.600
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										0.262
*** See Remarks ***										0.050
TRAINING										2.096
CONTRACT NEG										0.306
ICS										3.200
DEPOT										5.002
OGC										3.406
PMA										1.442
INSTALLATION OF HARDWARE										

**Continued**

		<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-10 (Active)	51 KITS									[51]	0.265
FY-10 (Guard)	82 KITS									[82]	0.427
FY-11 (Active)	69 KITS									[69]	0.349
FY-11 (Guard)	48 KITS									[48]	0.259
<hr/>											
TOTAL INSTALL										250	1.300
<hr/>											
TOTAL COST (BP-1100)			2.010							250	35.540
(Totals may not add due to rounding)											
INSTALLATION QTY										250	

Method of Implementation: Combination

Initial Lead Time: 4 Months

Follow-On Lead Time: 4 Months

**Milestones**

	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>
Contract Date (Month/CY)				12/10	12/11
Delivery Date (Month/CY)				04/11	04/12

**Installation Schedule**

Quarter	<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input													3	66	64	60	57								
Output													3	66	64	60	57								

02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. F-15E Flight Data Recorder (FDR) MN- 1210

Models of Systems Affected: F-15E

Center: WRALC Robins AFB GA

PE 0207134F

CLC: F-15 Class: P  
 Team POWER

**Description/Justification**

The Flight Data Recorder (FDR) program provides the F-15E aircraft with a flight data recorder and crash survivable memory unit to assist in mishap investigation boards, provide high fidelity fleet life management capability, and support the Aircraft Structural Integrity Program (ASIP). FDR is required to comply with Air Force Policy Directive (AFPD) 63-1 by providing crash survivable information to support mishap investigation and support the Aircraft Information Program (AIP). FDR is also required to comply with Air Force Instruction (AFI) 63-1001 by providing ASIP information, and individual aircraft usage information.

Aircraft Breakdown: ACTIVE 223, RESERVE 0, ANG 0, TOTAL 223

**Development Status**

Development contract awarded September 2009, with work continuing completed in September 2010.

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	[0]		[66]	3.102	[106]	4.982	[51]	2.397				
INSTALL KITS Group A (Guard)	[0]											
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	[0]		[66]	3.102	[106]	4.982	[51]	2.397				
KITS NONRECUR Group A (Active)	0		66	0.099	106	0.159	51	0.076				
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR	0		66	0.099	106	0.159	51	0.076				
EQUIPMENT Group B (Active)	[0]		[66]	3.498	[106]	5.618	[51]	2.703				
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT	[0]		[66]	3.498	[106]	5.618	[51]	2.703				
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS						0.600		0.200				
DATA												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
SIM/TRAINER												
SUPPORT- EQUIP						0.400		0.500				
FLIGHT TEST				0.600								
*** See Remarks ***				0.440								
TRAINING								0.508				
DEPOT												
ICS								3.000				0.500
OGC				0.010				0.961				0.001
CONTRACT NEG				0.341								
SOFTWARE				2.500								
PMA				0.010		0.039		0.000				0.180
INSTALLATION OF HARDWARE												
FY-10 (Active)	66 KITS						[50]	0.538			[16]	0.172
FY-11 (Active)	106 KITS										[84]	0.904
FY-12 (Active)	51 KITS											
TOTAL INSTALL							50	0.538			100	1.076
TOTAL COST (BP-1100)	0		66	10.600	106	11.798	51	10.883				1.757
(Totals may not add due to rounding)												
INSTALLATION QTY	0		0		0		50		0		100	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									[223]	10.481
INSTALL KITS Group A (Guard)									[0]	
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									[223]	10.481
KITS NONRECUR Group A (Active)									223	0.334
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									223	0.334
EQUIPMENT Group B (Active)									[223]	11.819
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT									[223]	11.819
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										0.800
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										0.900
FLIGHT TEST										0.600
*** See Remarks ***										0.440
TRAINING										0.508
DEPOT										
ICS		0.800								4.300
OGC										0.972
CONTRACT NEG										0.341
SOFTWARE										2.500

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
PMA		0.071								0.300
INSTALLATION OF HARDWARE										
FY-10 (Active)	66 KITS								[66]	0.710
FY-11 (Active)	106 KITS	[22]	0.237						[106]	1.141
FY-12 (Active)	51 KITS	[51]	0.549						[51]	0.549
TOTAL INSTALL	73	0.786							223	2.400
TOTAL COST (BP-1100)		1.657							223	36.695
(Totals may not add due to rounding)										
INSTALLATION QTY	73								223	

Method of Implementation: Combination

Initial Lead Time: 16 Months

Follow-On Lead Time: 1 Months

**Milestones**

	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>
Contract Date (Month/CY)			12/10	12/11	12/12
Delivery Date (Month/CY)			04/12	01/12	01/13

**Installation Schedule**

	<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	0	0	0	0	0	25	25	25	25
Output																	25	25							25	25	25	25	25	25	25	23

  

	<u>FY-15</u>				<u>FY-16</u>				<u>FY-17</u>				<u>FY-18</u>				<u>FY-19</u>				<u>FY-20</u>				<u>FY-21</u>				<u>FY-22</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																
Output																																

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. F-15C/D APG-63(V)3 radar upgrade MN- 6158

CLC: F-15 Class: P

Models of Systems Affected: F-15C/D

Center: ASC - Wright Patterson AFB, OH

PE 0207130F

Team AIR

**Description/Justification**

The APG-63 V3 radar upgrade replaces the mechanically-scanned antenna (MSA) on F-15C/D aircraft with an active electronically-scanned array (AESA) antenna that provides improved reliability and performance.

The baseline for the V3 program is the APG-63 V1 configured aircraft. The modification requires replacement of the antenna, power supply and upgrading the environmental control system. Other avionics which support radar functionality may also be upgraded.

The FY02 to FY07 V3 RDT&E funds total \$65.272M not including any separate V3 Demo funds.

The FY06 funding came from two separate Congressional adds. One add, for \$20M, provides the non-recurring funds necessary to start the V3 modification program, and procures one (1)V3 array for use as attrition reserve for USAF APG-63 V2 equipped F-15Cs. The second add, for \$52.2M, procures six (6) V3 radars for the ANG.

The FY07 funding included a \$72.2M Congressional add for procurement of eight (8) V3 radars for ANG, and supportability and sparing for two additional ANG bases. An additional \$7.0M was added by the Air Force for hardware and software modifications. FY 2007 Supplemental funding of \$62.8M was provided for procurement of eight (8) V3 AESA radar systems for active duty jets.

The FY08 Supplemental funding of \$120.627M was approved for seventeen (17)V3 radars and one (1) spare for active duty jets.

The FY09 Bridge Supplemental provided \$34M for five (5)V3 radars for ANG jets.

The FY10 Congressional add provided \$30M to procure five (5)V3 radars for ANG jets.

The required procurement quantity is 157 APG-63 (V)3 radars plus one (1) Active Duty RDT&E funded V3 radar, totaling 158 "Golden Fleet" V3 radars.

Projected allocations for Reserve Component requirements (modification kits and installation costs, subject to Total Force mission priorities and aircraft availability):

	2010	2011	2012	2013	2014	2015	2016
Reserve	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ANG	30.000	0.000	0.000	0.000	103.015	125.434	123.831

Aircraft Breakdown: ACTIVE 79, RESERVE 0, ANG 78, TOTAL 157

**Development Status**

The APG-63(V)3 uses APG-63(V)1 "backend" hardware which is already operational on 176 F-15C/Ds. It uses software from the APG-63(V)2, an electronically-scanned array radar which is also already operational on the F-15C. The primary new technology in the APG-63(V)3 is the AESA antenna, which is based on technology developed for the APG-79 radar on the F/A-18E/F Super Hornet.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		65.272										
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												

**Projected Financial Plan Continued**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
Total RDT & E (3600)		65.272										
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	[26]	7.306			[14]	5.793	[7]	1.836			[18]	4.779
INSTALL KITS Group A (Guard)	[19]	5.680	[5]	1.345								
INSTALL KITS Group A (Reserve)	[0]	0.000										
TOTAL: INSTALL KITS	[45]	12.986	[5]	1.345	[14]	5.793	[7]	1.836			[18]	4.779
KITS NONRECUR Group A (Active)	[0]											
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)	[0]											
TOTAL: KITS NONRECUR	[0]											
EQUIPMENT Group B (Active)	26	138.819			14	72.060	7	34.882			18	90.800
EQUIPMENT Group B (Guard)	19	107.902	5	25.554								
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT	45	246.721	5	25.554	14	72.060	7	34.882			18	90.800
EQUIP NONREC Group B (Active)	[0]	11.423										
EQUIP NONREC Group B (Guard)	[0]	30.790		0.009								
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC	[0]	42.213		0.009								
CHANGE ORDERS		0.398		1.102		7.878		5.074				6.090
DATA		4.141		1.586								0.865
SIM/TRAINER												
SUPPORT- EQUIP		0.405		0.128		0.500						
ENG SUPPORT		13.472		0.586		4.275		1.749				4.665
TRAINING		0.394		0.548		0.658						
FLIGHT TEST		13.959										
GVT FLT TST SPRT		4.844										
OTHER		2.698		0.032								
ICS		7.513		0.597		1.500		0.904				1.590
PMA				0.033		1.209		0.787				2.099
OGC		0.200		0.050		2.764		1.181				3.149
SPARES	[5]	15.502										
INSTALLATION OF HARDWARE												

**Projected Financial Plan Continued**

		<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-06 (Active)	1 KITS			[1]									
FY-06 (Guard)	6 KITS			[6]									
FY-07 (Active)	8 KITS			[8]									
FY-07 (Guard)	8 KITS					[8]							
FY-08 (Active)	17 KITS					[2]		[15]					
FY-09 (Guard)	5 KITS					[4]						[1]	
FY-10 (Guard)	5 KITS											[5]	
FY-11 (Active)	14 KITS											[14]	2.263
FY-12 (Active)	7 KITS												
FY-13 (Active)	18 KITS												
FY-14 (Active)	4 KITS												
FY-14 (Guard)	16 KITS												
FY-15 (Guard)	19 KITS												
FY-16 (Guard)	19 KITS												
TOTAL INSTALL				15		14		15				20	2.263
TOTAL COST (BP-1100)		45	365.446	5	31.570	14	96.637	7	46.413			18	116.300
(Totals may not add due to rounding)													
INSTALLATION QTY		0		15		14		15		0		20	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										65.272
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										65.272
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	[4]	1.074							[69]	20.788
INSTALL KITS Group A (Guard)	[16]	4.294	[19]	5.161	[19]	5.227			[78]	21.707
INSTALL KITS Group A (Reserve)									[0]	0.000
TOTAL: INSTALL KITS	[20]	5.368	[19]	5.161	[19]	5.227			[147]	42.495
KITS NONRECUR Group A (Active)									[0]	
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)									[0]	
TOTAL: KITS NONRECUR									[0]	
EQUIPMENT Group B (Active)	4	20.400							69	356.961
EQUIPMENT Group B (Guard)	16	81.602	19	98.059	19	99.316			78	412.433
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT	20	102.002	19	98.059	19	99.316			147	769.394
EQUIP NONREC Group B (Active)									[0]	11.423
EQUIP NONREC Group B (Guard)									[0]	30.799
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[0]	42.222
CHANGE ORDERS		5.674		4.932		2.342		0.698		34.188
DATA		0.880		0.895		0.910		0.925		10.202
SIM/TRAINER										
SUPPORT- EQUIP										1.033
ENG SUPPORT		5.202		5.055		5.137		0.314		40.455
TRAINING		0.722		0.735		0.747				3.804
FLIGHT TEST										13.959
GVT FLT TST SPPRT										4.844
OTHER										2.730
ICS		1.251		2.017		1.136		0.774		17.282
PMA		2.345		2.295		2.314		0.166		11.248
OGC		3.517		3.443		3.471		0.248		18.023

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
SPARES									[5]	15.502
INSTALLATION OF HARDWARE										
FY-06 (Active) 1 KITS									[1]	
FY-06 (Guard) 6 KITS									[6]	
FY-07 (Active) 8 KITS									[8]	
FY-07 (Guard) 8 KITS									[8]	
FY-08 (Active) 17 KITS									[17]	
FY-09 (Guard) 5 KITS									[5]	
FY-10 (Guard) 5 KITS									[5]	
FY-11 (Active) 14 KITS									[14]	2.263
FY-12 (Active) 7 KITS	[7]	1.151							[7]	1.151
FY-13 (Active) 18 KITS	[4]	0.657	[14]	2.340					[18]	2.997
FY-14 (Active) 4 KITS			[3]	0.502	[1]	0.170			[4]	0.672
FY-14 (Guard) 16 KITS					[16]	2.721			[16]	2.721
FY-15 (Guard) 19 KITS					[2]	0.340	17	2.940	[19]	3.280
FY-16 (Guard) 19 KITS							19	3.333	[19]	3.333
TOTAL INSTALL	11	1.808	17	2.842	19	3.231	36	6.273	147	16.417
TOTAL COST (BP-1100) (Totals may not add due to rounding)	20	128.769	19	125.434	19	123.831		9.398	147	1043.798
INSTALLATION QTY	11		17		19		36		147	

Method of Implementation: Contract Field Team

Initial Lead Time: 36 Months

Follow-On Lead Time: 18 Months

**Milestones**

	<u>FY-01</u>	<u>FY-02</u>	<u>FY-03</u>	<u>FY-04</u>	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>
Contract Date (Month/CY)						11/06	09/07	09/10	09/10	02/11	02/11	02/12	02/13	02/14	02/15
Delivery Date (Month/CY)						11/09	10/10	08/11	03/11	08/12	08/12	08/13	08/14	08/15	08/16

**Installation Schedule**

Quarter	<u>FY-01</u>				<u>FY-02</u>				<u>FY-03</u>				<u>FY-04</u>				<u>FY-05</u>				<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Input																					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Output																					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>							
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input	0	0	0	0	1	5	8	1	5	2	2	5	4	4	4	3	1	0	0	0	4	5	6	5	3	2	2	4	5	4	4	4	4	4	4	4
Output	0	0	0	0	1	2	8	4	3	3	2	4	5	4	4	4	1	0	0	0	3	4	6	5	3	3	3	3	4	5	4	4	4	4	4	4

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. E IFF MODE 5 MN- 8755

CLC: F-15 Class: P

Models of Systems Affected: F15C/D/E

Center: ASC - Wright Patterson AFB, OH

PE 0207134F

Team POWER

**Description/Justification**

Mode 5 is a secure Identification Friend-or-Foe / Air-to-Air Interrogator (IFF/AAI) system for identifying friendly aircraft. Employing a radio waveform different from secure Mode 4, Mode 5 provides vastly improved performance with a robust encryption scheme. The Mode 5 modification effort is for both F-15E and F-15C/D aircraft. This modification continues the previous depot standup begun under MN 8745 IFF A-D (Modes 1-4) as well as ICS started under MN 8745. This effort also includes retrofit of IFF/AAI kits on F-15C/D APG-63(V)2 aircraft at Kadena AFB.

Total aircraft requirement breakdown: 473

Aircraft Breakdown: ACTIVE 473, RESERVE 0, ANG 0, TOTAL 473

**Development Status**

Mode 5 basic hardware and software development is being conducted by ESC, Hanscom AFB on the existing APX-114 interrogator and APX-119 transponder. A separate development for the Mode 5 crypto applique (KIV-77) is being conducted by Cryptologic Systems Group (CPSG). Integration of the new Mode 5 hardware/software/crypto onto the F-15 is part of the F-15 OFP effort.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)			[0]		[289]	0.355	[184]	0.227				
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS			[0]		[289]	0.355	[184]	0.227				
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)			0		289	17.389	184	9.700				
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT			0		289	17.389	184	9.700				
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
CHANGE ORDERS				1.083		2.500						
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
ENG SUPPORT						1.200		1.200				
OTHER						3.200						
TRAINING												
DEPOT STAND-UP				11.120		1.514						
OGC				0.453		0.889		0.419				
ICS						2.000		2.000				
PMA				1.336		0.590		0.419				
TOTAL COST (BP-1100)				0	13.992	289	29.637	184	13.965			
(Totals may not add due to rounding)												
INSTALLATION QTY								289			184	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									[473]	0.582
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									[473]	0.582
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)									473	27.089
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT									473	27.089
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										3.583
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
ENG SUPPORT										2.400
OTHER										3.200
TRAINING										
DEPOT STAND-UP										12.634
OGC										1.761
ICS										4.000
PMA										2.345
TOTAL COST (BP-1100)									473	57.594

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
(Totals may not add due to rounding)										
INSTALLATION QTY									473	

Method of Implementation: Org/Intermediate

Initial Lead Time: 12 Months

Follow-On Lead Time: 12 Months

**Milestones**

	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>
Contract Date (Month/CY)				01/12	01/13
Delivery Date (Month/CY)				01/13	01/14

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. F-15C/D BLOS MN- 8794

CLC: F-15 Class: P

Models of Systems Affected: F-15C

Center: ASC - Wright Patterson AFB, OH

PE 0207130F

Team AIR

**Description/Justification**

The Air Force has a Beyond Line of Sight (BLOS) capability requirement for combat and Homeland Defense (HD) missions. This requirement is supported by NORAD-USNORTHCOM Joint Urgent Operational Need (JUON) dated 5 October 2007 for BLOS clear and secure voice for Operation Noble Eagle Air Sovereignty Alert fighters. The requirement is for BLOS communications on all long-term F-15C/D aircraft. The priority will be given to the Air Sovereignty Alert aircraft. Ultra High Frequency (UHF) SATCOM is the near term threshold requirement and the longer term threshold requirement is for broad band Mobile User Objective System (MUOS) SATCOM. Identified solutions for the near term requirement include an upgrade path to MUOS with the option for integrated waveform (IW) as an interim upgrade.

This program has associated Research Development Test and Evaluation (RDT&E) in PE 0204134F.

Aircraft Breakdown: ACTIVE 120, RESERVE 0, ANG 130, TOTAL 250

**Development Status**

N/A

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)								6.550				
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)								6.550				
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)							[20]	1.940			[100]	10.785
INSTALL KITS Group A (Guard)							[105]	7.854			[25]	2.637
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS							[125]	9.794			[125]	13.422
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)							20	1.785			100	8.995
EQUIPMENT Group B (Guard)							105	7.880			25	2.499
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT							125	9.665			125	11.494
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>		
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	
TOTAL: EQUIP NONREC													
CHANGE ORDERS												0.094	
DATA							0.641					0.618	
SIM/TRAINER							0.310			[0]		0.934	
SUPPORT- EQUIP							0.607					0.650	
PROGRAM MNGMT							1.138					1.939	
TRAINING							0.520					0.358	
ICS							0.150					0.436	
OGC							0.451					2.028	
SPARES							0.815					1.559	
INSTALLATION OF HARDWARE													
FY-12 (Active)	20 KITS										[20]		
FY-12 (Guard)	105 KITS										[105]		
FY-13 (Active)	100 KITS												
FY-13 (Guard)	25 KITS												
TOTAL INSTALL												125	
TOTAL COST (BP-1100)								125	24.091			125	33.532
(Totals may not add due to rounding)													
INSTALLATION QTY												125	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										6.550
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										6.550
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									[120]	12.725
INSTALL KITS Group A (Guard)									[130]	10.491
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									[250]	23.216
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)									120	10.780
EQUIPMENT Group B (Guard)									130	10.379
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT									250	21.159
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										0.094
DATA										1.259
SIM/TRAINER									[0]	1.244
SUPPORT- EQUIP										1.257
PROGRAM MNGMT										3.077
TRAINING										0.878
ICS										0.586
OGC										2.479
SPARES										2.374
INSTALLATION OF HARDWARE										
FY-12 (Active)			20 KITS						[20]	
FY-12 (Guard)			105 KITS						[105]	

**Continued**

		<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-13 (Active)	100 KITS	[100]								[100]	
FY-13 (Guard)	25 KITS	[25]								[25]	
TOTAL INSTALL		125								250	
TOTAL COST (BP-1100)										250	57.623
(Totals may not add due to rounding)											
INSTALLATION QTY		125								250	

Method of Implementation: Contract Field Team

Initial Lead Time: 12 Months

Follow-On Lead Time: 12 Months

**Milestones**

	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>
Contract Date (Month/CY)		06/12	06/13
Delivery Date (Month/CY)		06/13	06/14

**Installation Schedule**

Quarter	<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input													31	31	31	32	31	31	31	32
Output													31	31	31	32	31	31	31	32

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications					P-1 LINE ITEM NOMENCLATURE: F-16					
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16	
<b>COST (In Mil)</b>	\$260.669	\$167.188	\$73.346	\$	\$73.346	\$21.366	\$15.085	\$14.102	\$33.644	

The program funding includes reductions for acquisition efficiencies and program management administration that are not intended to impact program content. The efficiency reductions total \$0.849M in FY12.

The F-16 is a multi-role fighter capable of employing a wide variety of nuclear and conventional weapons and missiles in both the air-to-surface and air-to-air mission areas. The specific modifications budgeted and programmed are below.

Mod F19427 F-110 Engine Fire Seal is a FY12 new start.

Projected allocations for Reserve Component requirements (modification kits and installation costs, subject to Total Force mission priorities and aircraft availability):

	2010	2011	2012	2013	2014	2015	2016
Reserve	10.500	4.200	0.900	1.100	0	0	0
ANG	49.500	37.300	11.500	4.400	1.800	1.700	1.800

CLASS	MOD NR	MODIFICATION TITLE	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16	COST TO GO	TOTAL PROG
P-S	618270	DIGITAL FLIGHT CONTROL COMPUTER	0.6	1.2	2.0		2.0	1.0	1.0				8.7
	F19424	F110 ENGINE SERVICE LIFE EXTENSION PROGRAM (SLEP)	25.9										317.1
	F19427	F-110 Engine Fire Seal Mod			1.1		1.1	0.8	0.7	0.1			2.6
<b>TOTAL FOR CLASS P-S</b>			26.5	1.2	3.2		3.2	1.7	1.6	0.1			328.4
P	602043	BLOCK 42 ANG RE-ENGINE	46.6										241.6
	602149	MMC Upgrade 7000A	36.9	16.6	0.5		0.5						131.9
	602150	MODULAR MISSION COMPUTER MMC-CCIP	1.3										509.6
	6023	FALCON STAR	38.5	31.7	22.9		22.9	13.7					439.0
	602600	F-16 LEGACY STRUCTURAL SLEP									19.8		19.8
	604050	EMBEDDED GPS/INS	21.8	18.9	9.1		9.1						71.1

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 40	PAGE NO. 1	
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**BUDGET ITEM JUSTIFICATION  
(EXHIBIT P-40)**

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY:

P-1 LINE ITEM NOMENCLATURE: F-16

AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications

CLASS	MOD NR	MODIFICATION TITLE (EGI)	FY-10	FY-11	FY-12	FY-12OCO	FY-12Total	FY-13	FY-14	FY-15	FY-16	COST TO GO	TOTAL PROG
	610250	COLOR DISPLAYS - CCIP	0.5										276.5
	612150	AIR-TO-AIR INTERROGATOR	31.4										144.9
	612151	Mode 5 Identification		38.6	16.6		16.6						55.2
	612152	MODE S IDENTIFICATION	15.8	6.9	3.6		3.6						44.1
	618210	BLK 40/50 SECURE LINE OF SIGHT RADIO	2.0	1.7	0.8		0.8	0.3					81.9
	618220	BLK 40/50 BEYOND LINE OF SIGHT RADIO	0.0	18.3	6.5		6.5						92.5
	618230	BLK 30 SECURE LINE OF SIGHT RADIO	5.3	2.4									26.0
	618240	BLK 30 BEYOND LINE OF SIGHT RADIO	12.3	5.4	1.9		1.9						32.5
	624050	ADVANCED DATA TRANSFER EQUIPMENT	4.3	15.4									22.8
	6300	ON BOARD OXYGEN GENERATION SYSTEM (OBOGS)	3.1	3.7	4.7		4.7	1.4					49.0
	650050	JOINT HELMET MOUNTED CUEING SYS - CCIP	8.0										268.1
	661650	LINK 16 - CCIP	0.2										173.4
	661652	Link 16 Crypto							8.3	8.3	8.0		24.6
	8662	AETC MTD UPGRADES- FIELD TRAINING DETACHMENTS	4.6	4.7	3.6		3.6	4.2	4.9	5.0	5.1		105.8
	99999X	LOW COST MODIFICATIONS	1.6	1.9	0.0		0.0	0.1	0.2	0.7	0.7		18.4
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			234.1	166.0	70.2	0.0	70.2	19.6	13.5	14.1	33.6	0.0	2828.6
<b>TOTAL FOR WEAPON SYSTEM F-16</b>			260.7	167.2	73.3	0.0	73.3	21.4	15.1	14.1	33.6	0.0	3157.0

Totals may not add due to rounding

TOTAL PROG includes Prior Year and Cost To Go Dollars

P-1 SHOPP LIST ITEM  
NO. 40PAGE NO.  
2

02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. FALCON STAR MN- 6023

CLC: F-16 Class: P

Models of Systems Affected: F-16 BLOCKS  
 25/30/32/40/42/50/52

Center: OO-ALC - Hill AFB, UT

PE 0207133F

Team POWER

**Description/Justification**

Engineering test, analysis, and field experience indicate that under current operational usage the F-16 will not reach the 8,000 hour service life needed to support force structure plans. This shortfall is due to structural fatigue driven primarily by usage severity and gross weight, which have both increased significantly over design parameters with the incorporation of new systems and capabilities. Falcon STAR (Structural Augmentation Roadmap) is a depot-level upgrade program that replaces or reworks known life-limited structure to preclude the onset of widespread fatigue damage, maintain safety of flight, enhance aircraft availability, and extend the life of affected components to 8,000 hours. Life-limited components and required installation dates vary by aircraft block as follows: Blocks 25/30/32 (FY04-11) -- FS 110 Canopy Hook Support Frame, FS 158 Bulkhead, BL 19 Forward Longerons, FS 293 Strake Frame & Closure Rib, Upper and Lower Wing Attach Fittings, Lower Wing Skin, Vertical Skin at Flaperon Cutout, Leading Edge Flaps, FS 446 Lower Bulkhead, Horizontal Tail Support Beam, Ventral Fins, and Engine Access Covers; Blocks 40/42 (FY05-09) -- FS 158 Bulkhead, FS 479 Upper Bulkhead, and Engine Access Covers; Blocks 50/52 (FY08-14) -- FS 158 Bulkhead and FS 479 Upper Bulkhead. Without modification of these components, the F-16 will experience continued structural degradation, which will adversely affect mission capable rates and become increasingly costly to correct. Because of variation in modification requirements and installation schedules among aircraft blocks, the quantity and unit cost of kit procurement and hardware installation differs from year to year, depending on the mix of aircraft involved. The upgrades included in Falcon STAR are distinct from those included in previous F-16 structures improvement programs and have been identified through the Aircraft Structural Integrity Program (ASIP) as the system has aged and operational usage has evolved.

Aircraft Breakdown: ACTIVE 646, RESERVE 62, ANG 362, TOTAL 1070

**Development Status**

Development costs were shared with the European Participating Governments (EPG) and several FMS customers. Engineering was focused on Blk 30 in FY01 and FY02, and Blk 40/Blk 50s in FY03-FY04. Development is complete.

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)		15.204										
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)		15.204										
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	585	61.957	18	0.669	25	1.442	18	0.923				
INSTALL KITS Group A (Guard)	328	35.100	10	0.371	14	0.815	10	0.461				
INSTALL KITS Group A (Reserve)	56	5.958	2	0.074	2	0.144	2	0.000				
TOTAL: INSTALL KITS	969	103.015	30	1.114	41	2.401	30	1.384				
KITS NONRECUR Group A (Active)	[0]	0.932										
KITS NONRECUR Group A (Guard)	[0]	0.528										
KITS NONRECUR Group A (Reserve)	[0]	0.094										
TOTAL: KITS NONRECUR	[0]	1.554										
EQUIPMENT Group B (Active)	[0]											

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT	[0]											
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS				1.242		0.140		0.082				
DATA												
SIM/TRAINER												
SUPPORT- EQUIP		8.605		1.238		2.250		0.508				0.780
KIT PROOF		1.939										
OGC		6.847		1.832		2.483		1.000				1.692
INSTALLATION OF HARDWARE												
FY-03 (Active)	35 KITS	[35]	17.852									
FY-03 (Guard)	20 KITS	[20]	10.302									
FY-03 (Reserve)	3 KITS	[3]	1.369									
FY-04 (Active)	81 KITS	[81]	18.837									
FY-04 (Guard)	43 KITS	[43]	10.638									
FY-04 (Reserve)	6 KITS	[6]	1.920									
FY-05 (Active)	72 KITS	[72]	14.896									
FY-05 (Guard)	41 KITS	[41]	8.505									
FY-05 (Reserve)	7 KITS	[7]	1.441									
FY-06 (Active)	110 KITS	[110]	26.925									
FY-06 (Guard)	63 KITS	[63]	15.040									
FY-06 (Reserve)	11 KITS	[11]	2.668									
FY-07 (Active)	139 KITS	[139]	33.706									
FY-07 (Guard)	78 KITS	[78]	18.915									
FY-07 (Reserve)	14 KITS	[14]	3.396									
FY-08 (Active)	78 KITS	[59]	14.198		[19]	6.541						
FY-08 (Guard)	44 KITS	[34]	8.182		[10]	3.442						
FY-08 (Reserve)	8 KITS	[6]	1.445		[2]	0.688						

**Projected Financial Plan Continued**

		PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
		QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
FY-09 (Active)	70 KITS			[39]	13.425	[31]	10.838						
FY-09 (Guard)	39 KITS			[22]	7.573	[17]	5.943						
FY-09 (Reserve)	7 KITS			[4]	1.378	[3]	1.049						
FY-10 (Active)	18 KITS					[10]	3.496	[8]	3.249				
FY-10 (Guard)	10 KITS					[8]	2.797	[2]	0.812				
FY-10 (Reserve)	2 KITS					[1]	0.350	[1]	0.406				
FY-11 (Active)	25 KITS							[24]	9.744			[1]	0.340
FY-11 (Guard)	14 KITS							[13]	5.278			[1]	0.340
FY-11 (Reserve)	2 KITS							[1]	0.406			[1]	0.340
FY-12 (Active)	18 KITS											[18]	6.120
FY-12 (Guard)	10 KITS											[10]	3.400
FY-12 (Reserve)	2 KITS											[2]	0.680
TOTAL INSTALL		822	210.235	96	33.047	70	24.473	49	19.895			33	11.220
TOTAL COST (BP-1100)		969	332.195	30	38.473	41	31.747	30	22.869				13.692
(Totals may not add due to rounding)													
INSTALLATION QTY		822		96		70		49				33	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										15.204
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										15.204
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									646	64.991
INSTALL KITS Group A (Guard)									362	36.747
INSTALL KITS Group A (Reserve)									62	6.176
TOTAL: INSTALL KITS									1070	107.914
KITS NONRECUR Group A (Active)									[0]	0.932
KITS NONRECUR Group A (Guard)									[0]	0.528
KITS NONRECUR Group A (Reserve)									[0]	0.094
TOTAL: KITS NONRECUR									[0]	1.554
EQUIPMENT Group B (Active)									[0]	
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT									[0]	
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										1.464
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										13.381
KIT PROOF										1.939
OGC										13.854
INSTALLATION OF HARDWARE										
FY-03 (Active)	35 KITS								[35]	17.852
FY-03 (Guard)	20 KITS								[20]	10.302
FY-03 (Reserve)	3 KITS								[3]	1.369
FY-04 (Active)	81 KITS								[81]	18.837
FY-04 (Guard)	43 KITS								[43]	10.638

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-04 (Reserve)	6 KITS								[6]	1.920
FY-05 (Active)	72 KITS								[72]	14.896
FY-05 (Guard)	41 KITS								[41]	8.505
FY-05 (Reserve)	7 KITS								[7]	1.441
FY-06 (Active)	110 KITS								[110]	26.925
FY-06 (Guard)	63 KITS								[63]	15.040
FY-06 (Reserve)	11 KITS								[11]	2.668
FY-07 (Active)	139 KITS								[139]	33.706
FY-07 (Guard)	78 KITS								[78]	18.915
FY-07 (Reserve)	14 KITS								[14]	3.396
FY-08 (Active)	78 KITS								[78]	20.739
FY-08 (Guard)	44 KITS								[44]	11.624
FY-08 (Reserve)	8 KITS								[8]	2.133
FY-09 (Active)	70 KITS								[70]	24.263
FY-09 (Guard)	39 KITS								[39]	13.516
FY-09 (Reserve)	7 KITS								[7]	2.427
FY-10 (Active)	18 KITS								[18]	6.745
FY-10 (Guard)	10 KITS								[10]	3.609
FY-10 (Reserve)	2 KITS								[2]	0.756
FY-11 (Active)	25 KITS								[25]	10.084
FY-11 (Guard)	14 KITS								[14]	5.618
FY-11 (Reserve)	2 KITS								[2]	0.746
FY-12 (Active)	18 KITS								[18]	6.120
FY-12 (Guard)	10 KITS								[10]	3.400
FY-12 (Reserve)	2 KITS								[2]	0.680
<b>TOTAL INSTALL</b>									<b>1070</b>	<b>298.870</b>
<b>TOTAL COST (BP-1100)</b> (Totals may not add due to rounding)									<b>1070</b>	<b>438.976</b>
<b>INSTALLATION QTY</b>									<b>1070</b>	

Method of Implementation: Depot

Initial Lead Time: 9 Months

Follow-On Lead Time: 9 Months

**Milestones**

	<u>FY-00</u>	<u>FY-01</u>	<u>FY-02</u>	<u>FY-03</u>	<u>FY-04</u>	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>
Contract Date (Month/CY)				01/03	12/03	12/04	01/06	01/07	01/08	01/09	01/10	01/11	01/12
Delivery Date (Month/CY)				10/03	09/04	09/05	10/06	10/07	10/08	10/09	10/10	10/11	10/12

**Installation Schedule**

	<u>FY-00</u>				<u>FY-01</u>				<u>FY-02</u>				<u>FY-03</u>				<u>FY-04</u>				<u>FY-05</u>				<u>FY-06</u>				<u>FY-07</u>							
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																				
Output																																				

  

	<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>							
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input	54	53	53	53	47	46	46	46	24	24	24	24	18	18	17	17	13	12	12	12									11	11	11					
Output	38	38	54	53	53	53	47	46	46	46	24	24	24	24	18	18	17	17	13	12									12	12	11	11	11			

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. EMBEDDED GPS/INS (EGI) MN- 604050

CLC: F-16 Class: P

Models of Systems Affected: Blk 40/42, 50/52

Center: OO-ALC - Hill AFB, UT

PE 0207133F

Team POWER

**Description/Justification**

The Embedded GPS/INSs (EGIs) is for Block 40/42/50/52 aircraft. The EGI will replace the Ring Laser Gyro (RLG) Inertial Navigation System (INS), the Global Positioning System (GPS) receiver, and the Master Navigation Filter. Specifically, the program will incorporate Selected Availability Anti-Spoofing Module (SAASM) GPS Receiver and unique F-16 requirements into an EGI. It must be fielded to support the M5/M5+ capability upgrade. The program has procured integration EGIs for use in development, integration, and testing. The program is obtaining the production EGIs for installation onto subject aircraft. ACC desires production installation to be accomplished by field installation teams (depot field teams) chosen through Source of Repair Assignment Process (SORAP) process.

This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0207133F.

Aircraft Breakdown: ACTIVE 484, RESERVE 0, ANG 141, TOTAL 625

**Development Status**

Completed

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)		10.742										
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)		10.742										
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	[209]	1.421	[202]	1.376	[73]	0.491						
INSTALL KITS Group A (Guard)	[67]	0.443	[50]	0.341	[24]	0.161						
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	[276]	1.864	[252]	1.717	[97]	0.652						
KITS NONRECUR Group A (Active)	[0]											
KITS NONRECUR Group A (Guard)	[0]											
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR	[0]											
EQUIPMENT Group B (Active)	209	11.966	202	11.310	73	4.087						
EQUIPMENT Group B (Guard)	67	3.815	50	2.799	24	1.344						
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT	276	15.781	252	14.109	97	5.431						
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA		0.110		0.258		0.636		0.658				
SIM/TRAINER												
SUPPORT- EQUIP		1.973										
KIT PROOF		0.956										
OGC		0.162		0.545		1.162		0.360				
RETROFIT KITS	[6]	0.411										
INSTALLATION OF HARDWARE												
FY-08 (Active)	130 KITS		[124]	5.217	[6]	0.246						
FY-09 (Active)	79 KITS				[79]	3.234						
FY-09 (Guard)	67 KITS				[67]	2.743						
FY-10 (Active)	202 KITS				[73]	2.988	[129]	4.477				
FY-10 (Guard)	50 KITS				[43]	1.760	[7]	0.243				
FY-11 (Active)	73 KITS						[73]	2.534				
FY-11 (Guard)	24 KITS						[24]	0.833				
TOTAL INSTALL			124	5.217	268	10.971	233	8.087				
TOTAL COST (BP-1100)	276	21.257	252	21.846	97	18.852		9.105				
(Totals may not add due to rounding)												
INSTALLATION QTY			124		268		233					

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										10.742
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										10.742
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									[484]	3.288
INSTALL KITS Group A (Guard)									[141]	0.945
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									[625]	4.233
KITS NONRECUR Group A (Active)									[0]	
KITS NONRECUR Group A (Guard)									[0]	
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									[0]	
EQUIPMENT Group B (Active)									484	27.363
EQUIPMENT Group B (Guard)									141	7.958
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT									625	35.321
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										1.662
SIM/TRAINER										
SUPPORT- EQUIP										1.973
KIT PROOF										0.956
OGC										2.229
RETROFIT KITS									[6]	0.411
INSTALLATION OF HARDWARE										
FY-08 (Active)		130 KITS							[130]	5.463
FY-09 (Active)		79 KITS							[79]	3.234
FY-09 (Guard)		67 KITS							[67]	2.743
FY-10 (Active)		202 KITS							[202]	7.465

**Continued**

		<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-10 (Guard)	50 KITS									[50]	2.003
FY-11 (Active)	73 KITS									[73]	2.534
FY-11 (Guard)	24 KITS									[24]	0.833
<hr/>											
TOTAL INSTALL										625	24.275
<hr/>											
TOTAL COST (BP-1100)										625	71.060
(Totals may not add due to rounding)											
INSTALLATION QTY										625	

Method of Implementation: Depot Field Team

Initial Lead Time: 12 Months

Follow-On Lead Time: 15 Months

**Milestones**

	<u>FY-04</u>	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>
Contract Date (Month/CY)					08/08	01/09	05/10	12/10
Delivery Date (Month/CY)					08/09	04/10	08/11	03/12

**Installation Schedule**

	Quarter	<u>FY-04</u>				<u>FY-05</u>				<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																	
Output																																	

  

	Quarter	<u>FY-12</u>				<u>FY-12 OCO</u>			
		1	2	3	4	1	2	3	4
Input		56	68	73	36				
Output		71	53	78	56				

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Mode 5 Identification MN- 612151

CLC: F-16 Class: P

Models of Systems Affected: Blk 50/52

Center: OO-ALC - Hill AFB, UT

PE 0207133F

Team POWER

**Description/Justification**

Provides Mode 5 encrypted identification for F-16 Block 50/52 aircraft. Replaces Block 50-52 advanced air-to-air interrogator (AAI) units (which cannot be upgraded to provide mode 5 capability) with new AAI units that have Mode 5 capability. The Non-Recurring line is for the engineering testers that must be designed, built and utilized through the production process. The production testers and auxiliary test sets are proprietary technology and must be built at the contractor facility. The system integration requires the specific equipment to accomplish the crypto emulation tests.

This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0207133F.

Aircraft Breakdown: ACTIVE 218, RESERVE 0, ANG 28, TOTAL 246

**Development Status**

Initial flight testing conducted on 3-4 Nov 10 in the Netherlands. Additional flight testing scheduled in 2Q-3Q FY11. Hardware Development is scheduled to complete in CY11.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		9.091		5.243								
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)		9.091		5.243								
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)												
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS												
KITS NONRECUR Group A (Active)	[0]					3.962						
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR	[0]					3.962						
EQUIPMENT Group B (Active)	0				140	27.693	78	15.546				
EQUIPMENT Group B (Guard)	0				28	5.523						
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT	0				168	33.216	78	15.546				
EQUIP NONREC Group B (Active)	[0]											
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC	[0]											
CHANGE ORDERS							1.467		1.054			

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
OGC												
TOTAL COST (BP-1100)	0				168	38.645	78	16.600				
(Totals may not add due to rounding)												
INSTALLATION QTY												

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										14.334
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										14.334
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS										
KITS NONRECUR Group A (Active)									[0]	3.962
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									[0]	3.962
EQUIPMENT Group B (Active)									218	43.239
EQUIPMENT Group B (Guard)									28	5.523
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT									246	48.762
EQUIP NONREC Group B (Active)									[0]	
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[0]	
CHANGE ORDERS										2.521
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
OGC										
<hr/>										
TOTAL COST (BP-1100)									246	55.245
(Totals may not add due to rounding)										
INSTALLATION QTY										

Method of Implementation: Org/Intermediate

Initial Lead Time: 14 Months

Follow-On Lead Time: 14 Months

**Milestones**

	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>
Contract Date (Month/CY)				01/12	01/13
Delivery Date (Month/CY)				03/13	03/14

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. BLK 40/50 BEYOND LINE OF SIGHT RADIO MN- 618220

CLC: F-16 Class: P

Models of Systems Affected: F-16 Blks 40/42/50/52

Center: OO-ALC - Hill AFB, UT

PE 0207133F

Team POWER

**Description/Justification**

This mod takes advantage of the existing capability within the AN/ARC-210 Warrior radio and adds the necessary hardware to enable beyond line-of-sight (BLOS) communications. Group B consists of a High Powered Amplifier (HPA), HPA mount and Low Noise Amplifier (LNA). GFE Group A includes a conformal fairing and SATCOM antenna. BLOS capability (all Blocks) started fielding in FY09. MN 618210 is a predecessor to MN 618220. Kit buy total exceeds aircraft breakdown total due to one aircraft attrition at Osan. Kit buy total exceeds install total by four due to the attrition at Osan and three installs at Edwards that were performed by maintenance community.

- FY09 funding totals include \$63.2M (total split between MN 618210 and 618220) requested for Overseas Contingency Operations. The supplemental funds include Kits and the corresponding Installs.

Aircraft Breakdown: ACTIVE 409, RESERVE 0, ANG 128, TOTAL 537

**Development Status**

BLOS development/integration for the Blk 40/50 was initiated with FY08 GWOT funding. Four aircraft were modified during EMD. An additional development was required to bring the BLOS fairings into a 9G configuration. The accepted solution was a Radome material change which began fielding in Feb 10. The end result was 82 Blk 40/50 aircraft fielding with original fairing configuration which currently carries a visual external inspection after each flight and a full internal inspection after every 100 flight hours. To reduce the inspection impact on the maintenance community, the BLOS program team is investigating the possibility of changing the internal inspection requirement from every 100 flight hours to during aircraft phasing. The Program Management team is also evaluating several possible retrofit options, but there is currently no retrofit plan.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		8.124		0.985								
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)		8.124		0.985								
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	347	25.010			63	1.779						
INSTALL KITS Group A (Guard)	106	7.195			22	0.622						
INSTALL KITS Group A (Reserve)	0											
TOTAL: INSTALL KITS	453	32.205			85	2.401						
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)	[347]	12.973			[63]	2.716						
EQUIPMENT Group B (Guard)	[106]	3.995			[22]	0.953						
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT	[453]	16.968			[85]	3.669						
EQUIP NONREC Group B (Active)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP		1.205										
OGC		0.022		0.003		0.010						
INSTALLATION OF HARDWARE												
FY-08 (Active)	20 KITS	[20] 0.755										
FY-09 (Active)	327 KITS	13.672	[96]		[113]	6.919	[118]	1.760				
FY-09 (Guard)	106 KITS	2.848	[20]		[86]	5.265						
FY-11 (Active)	63 KITS						[59]	3.462				
FY-11 (Guard)	22 KITS						[22]	1.291				
TOTAL INSTALL	20	17.275	116		199	12.184	199	6.513				
TOTAL COST (BP-1100)	453	67.675		0.003	85	18.264		6.513				
(Totals may not add due to rounding)												
INSTALLATION QTY	20		116		199		199					

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										9.109
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										9.109
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									410	26.789
INSTALL KITS Group A (Guard)									128	7.817
INSTALL KITS Group A (Reserve)									0	
TOTAL: INSTALL KITS									538	34.606
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)									[410]	15.689
EQUIPMENT Group B (Guard)									[128]	4.948
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT									[538]	20.637
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										1.205
OGC										0.035
INSTALLATION OF HARDWARE										
FY-08 (Active)	20 KITS								[20]	0.755
FY-09 (Active)	327 KITS								[327]	22.351
FY-09 (Guard)	106 KITS								[106]	8.113
FY-11 (Active)	63 KITS								[59]	3.462
FY-11 (Guard)	22 KITS								[22]	1.291
TOTAL INSTALL									534	35.972

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL COST (BP-1100) (Totals may not add due to rounding)									538	92.455
INSTALLATION QTY									534	

Method of Implementation: Combination

Initial Lead Time: 5 Months

Follow-On Lead Time: 12 Months

**Milestones**

	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>
Contract Date (Month/CY)			03/09		02/11
Delivery Date (Month/CY)			08/09		02/12

**Installation Schedule**

Quarter	<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input													20	29	29	29	29	50	50	50	49	50	50	50	49							
Output																	20	29	29	29	29	50	50	50	49	50	50	50				49

UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: F-22</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$176.788	\$492.199	\$232.032	\$	\$232.032	\$283.260	\$412.588	\$312.744	\$319.704

The F/A-22 program is the next generation multi-mission air superiority fighter to counter emerging worldwide threats. The F/A-22 is designed to penetrate enemy airspace and achieve a first-look, first-kill capability against multiple targets. The primary modification budgeted in FY12 is the Reliability and Maintainability Maturation Program. The specific modifications budgeted and programmed are below.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	F22001	COMMON CONFIGURATION	2.4	224.3	6.1		6.1	11.1	10.6	7.2			697.8
	F22003	INCREMENT3.1	49.0	35.0	49.0		49.0	40.8	10.4	10.3	4.4		269.7
	F22004	Low Cost Mod Weapon System	1.9	1.9	1.2	0.0	1.2	1.3	1.3	1.3	1.4	0.0	22.0
	F22006	Reliability & Maintainability Maturation Program	106.2	115.9	106.9		106.9	107.7	122.2	95.6	91.8	60.6	1065.2
	F22014	F119 Engine Modifications	0.8	18.4	17.3		17.3	67.6	66.5	26.4	23.0		238.5
	F22019	INCREMENT 3.2							122.6	83.8	124.3	231.4	562.1
	F22021	Arresting Gear System			2.5		2.5	5.2					7.7
	F22022	Structures Retrofit Plan	16.6	49.5	37.5		37.5	44.3	43.6	41.1	23.1		255.8
	F22024	Trainers Modernization		45.8	8.8		8.8	3.4	18.3	9.0	3.6		102.1
	F22027	KOV20		1.5	2.6		2.6	1.8		3.3	5.0	2.1	16.3
	F22028	AGCAS							17.1	34.7	43.2	16.4	111.4
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			176.8	492.2	232.0	0.0	232.0	283.3	412.6	312.7	319.7	310.5	3348.6
<b>TOTAL FOR WEAPON SYSTEM F-22</b>			176.8	492.2	232.0	0.0	232.0	283.3	412.6	312.7	319.7	310.5	3348.6

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

P-1 SHOPP LIST ITEM NO. 41	PAGE NO. 1
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02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. COMMON CONFIGURATION MN- F22001

CLC: F-22 Class: P

Models of Systems Affected: F-22A

Center: ASC - Wright Patterson AFB, OH

PE 0207138F

Team AIR

**Description/Justification**

The F-22 Common Configuration Program is the cornerstone of the F-22 Fleet Modernization Program. The purpose of Common Configuration is to enable each individual F-22 aircraft to provide the greatest combat capability possible given its production configuration. Additionally, Common Configuration upgrades increase the F-22 fleet combat capability, increase operational availability, and improve supportability.

Aircraft Breakdown: ACTIVE 81, RESERVE 0, ANG 0, TOTAL 81

**Development Status**

Development complete

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)				4.150								
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)				4.150								
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)												
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS												
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)	63	349.898			18	222.300						
EQUIPMENT Group B (Guard)	0											
EQUIPMENT Group B (Reserve)	0											
TOTAL: EQUIPMENT	63	349.898			18	222.300						
EQUIP NONREC Group B (Active)	[0]	83.364				0.000						
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC	[0]	83.364				0.000						
CHANGE ORDERS												

**Projected Financial Plan Continued**

		<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
DATA													
SIM/TRAINER													
SUPPORT- EQUIP													
INSTALLATION OF HARDWARE													
FY-03 (Active)	7 KITS	[7]	0.154										
FY-04 (Active)	2 KITS	[2]	0.050										
FY-05 (Active)	5 KITS	[5]	1.924										
FY-06 (Active)	1 KITS	[1]	0.700										
FY-07 (Active)	20 KITS			[8]	2.392	[12]	1.970						
FY-08 (Active)	16 KITS							[9]	6.125			[7]	2.870
FY-09 (Active)	12 KITS											[12]	8.240
FY-11 (Active)	18 KITS												
TOTAL INSTALL		15	2.828	8	2.392	12	1.970	9	6.125			19	11.110
TOTAL COST (BP-1100)		63	436.090		2.392	18	224.270		6.125				11.110
(Totals may not add due to rounding)													
INSTALLATION QTY		15		8		12		9				19	

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										4.150
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										4.150
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS										
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)									81	572.198
EQUIPMENT Group B (Guard)									0	
EQUIPMENT Group B (Reserve)									0	
TOTAL: EQUIPMENT									81	572.198
EQUIP NONREC Group B (Active)									[0]	83.364
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[0]	83.364
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
INSTALLATION OF HARDWARE										
FY-03 (Active)	7 KITS								[7]	0.154
FY-04 (Active)	2 KITS								[2]	0.050
FY-05 (Active)	5 KITS								[5]	1.924
FY-06 (Active)	1 KITS								[1]	0.700
FY-07 (Active)	20 KITS								[20]	4.362
FY-08 (Active)	16 KITS								[16]	8.995
FY-09 (Active)	12 KITS								[12]	8.240

**Continued**

		<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-11 (Active)	18 KITS	[11]	10.600	[7]	7.200					[18]	17.800
TOTAL INSTALL		11	10.600	7	7.200					81	42.225
TOTAL COST (BP-1100)			10.600		7.200					81	697.787
(Totals may not add due to rounding)											
INSTALLATION QTY		11		7						81	

Method of Implementation: Combination

Initial Lead Time: 35 Months

Follow-On Lead Time: 35 Months

**Milestones**

	<u>FY-02</u>	<u>FY-03</u>	<u>FY-04</u>	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>
Contract Date (Month/CY)		04/05	04/05	12/05		02/07	12/07	09/09		03/11
Delivery Date (Month/CY)		04/07	04/07	12/07		10/10	12/10	10/12		02/14

**Installation Schedule**

	Quarter	<u>FY-02</u>				<u>FY-03</u>				<u>FY-04</u>				<u>FY-05</u>				<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																	
Output																																	

  

	Quarter	<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input		2	2	2	2	3	3	3	3	2	2	2	3					5	5	5	4	0	4	4	3	7			
Output		2	2	2	2	3	3	3	3	2	2	2	2					3	5	5	5	4	0	4	4	3	5	2	

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. INCREMENT3.1 MN- F22003

CLC: F-22 Class: P

Models of Systems Affected: F-22

Center: ASC - Wright Patterson AFB, OH

PE 0207138F

Team AIR

**Description/Justification**

Increment 3.1 hardware modifications enable the F-22 to host Increment 3.1 capabilities including retargeting Joint Direct Attack Munitions (JDAM), carriage and delivery of the Small Diameter Bomb (SDB) on preplanned missions using the Joint Mission Planning System (JMPS), using Synthetic Aperture Radar (SAR) Air-to-Ground radar mode to permit attack of emerging targets, saving SAR imagery onto the Tactical Data Transfer System (TDTS) for post-mission analysis.

Increment 3.1 modernizes F-22 aircraft with Enhanced Central Integrated Processor (ECIP) cards, a new Map Inter-Face (MIF) board for the 4th generation APG-77VI radar, a modification to the GPS Inertial Navigation System (GINS), and a TDTS.

Kit installation quantities are reflective of the number of aircraft receiving modification and not the number of required kits.

Aircraft Breakdown: ACTIVE 123, RESERVE 0, ANG 20, TOTAL 143

**Development Status**

Requirements analysis began in FY04 in Modernization PE 0207138F. Increment 3.1 Critical Design Review (CDR) completed in Dec 06. Increment 3.1 Development, Integration, & Test contract definitized in Aug 07 (4Q07) and expected to complete 3QFY11. Operational Test and Evaluation begins 6 Jan 11.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)				37.500		12.400						
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)				37.500		12.400						
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	[0]	1.430										
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	[0]	1.430										
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)	36	62.520	32	45.499	32	33.092	32	43.060			11	26.240
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL: EQUIPMENT	36	62.520	32	45.499	32	33.092	32	43.060			11	26.240
EQUIP NONREC Group B (Active)	[0]	6.530										
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC	[0]	6.530										
CHANGE ORDERS												
DATA												
SIM/TRAINER	[3]	0.260	[7]	3.495	[3]	0.044					[7]	1.679
SUPPORT- EQUIP												
INSTALLATION OF HARDWARE												
FY-08 (Active)	12 KITS				[7]	1.865	[5]	1.332				
FY-09 (Active)	24 KITS						[18]	4.654				
FY-10 (Active)	32 KITS										[38]	12.920
FY-11 (Active)	32 KITS											
FY-12 (Active)	32 KITS											
FY-13 (Active)	11 KITS											
TOTAL INSTALL					7	1.865	23	5.986			38	12.920
TOTAL COST (BP-1100)	36	70.740	32	48.994	32	35.001	32	49.046			11	40.839
(Totals may not add due to rounding)												
INSTALLATION QTY			0		7		23				38	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										49.900
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										49.900
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									[0]	1.430
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									[0]	1.430
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)									143	210.411
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT									143	210.411
EQUIP NONREC Group B (Active)									[0]	6.530
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[0]	6.530
CHANGE ORDERS										
DATA										
SIM/TRAINER									[20]	5.478
SUPPORT- EQUIP										
INSTALLATION OF HARDWARE										
FY-08 (Active)	12 KITS								[12]	3.197
FY-09 (Active)	24 KITS								[18]	4.654
FY-10 (Active)	32 KITS								[38]	12.920
FY-11 (Active)	32 KITS	[32]	10.422						[32]	10.422
FY-12 (Active)	32 KITS			[31]	10.278		[1]		[32]	10.278
FY-13 (Active)	11 KITS					[11]	4.390		[11]	4.390

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL INSTALL	32	10.422	31	10.278	12	4.390			143	45.861
TOTAL COST (BP-1100) (Totals may not add due to rounding)		10.422		10.278		4.390			143	269.710
INSTALLATION QTY	32		31		12				143	

Method of Implementation: Combination

Initial Lead Time: 32 Months

Follow-On Lead Time: 30 Months

**Milestones**

	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>
Contract Date (Month/CY)		11/08	11/08	11/10	05/11	07/12	04/13
Delivery Date (Month/CY)		07/11	02/12	01/13	11/13	10/14	10/15

**Installation Schedule**

	<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input													0	0	0	0	0	0	0	0	7	4	6	7	6				10	11	9	8
Output																	4	5	4	7	8								11	9	9	8

  

	<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4
Input	8	6	10	8	8	8	8	7	5	5	2	
Output	9	7	8	8	8	8	8	6	7	5	4	

02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Reliability & Maintainability Maturation Program MN- F22006

CLC: F-22 Class: P

Models of Systems Affected: F-22

Center: ASC - Wright Patterson AFB, OH

PE 0207138F

Team AIR

**Description/Justification**

The Reliability and Maintainability Maturation Program (RAMMP) provides for the development and integration of upgrades to reach mature reliability, availability and maintainability (RAM). The associated RAMMP RDT&E effort develops candidate RAMMP initiatives which are down-selected for implementation based on their development maturity and impact on F-22 life cycle costs. Individual aircraft RAMMP retrofits are accomplished at either depot or operational level depending on the complexity of the particular mods for that aircraft.

RAMMP retrofit kit purchases currently include 40+ individual RAMMP projects, totaling over 2,100 kits. The installation of these kits are done either at the depot or organization level depending on the complexity of the effort. All aircraft in the F-22 fleet will receive one or more RAMMP retrofit each year.

Aircraft Breakdown: ACTIVE 158, RESERVE 0, ANG 20, TOTAL 178

**Development Status**

The development effort continually provides Research and Development projects to increase Reliability, Availability, and Maintainability of the aircraft through the FYDP. As these projects are tested and qualified, they are implemented via the retrofit program.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)				17.200		12.700		18.000				17.600
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)				17.200		12.700		18.000				17.600
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)												
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS												
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)	0	258.418	178	106.183	178	34.867	178	22.630			178	22.090
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)	0											
TOTAL: EQUIPMENT	0	258.418	178	106.183	178	34.867	178	22.630			178	22.090
EQUIP NONREC Group B (Active)	[0]							0.330				29.077
EQUIP NONREC Group B (Guard)	[0]											

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC	[0]							0.330				29.077
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
INSTALLATION OF HARDWARE												
FY-10 (Active)	178 KITS				[178]	81.015						
FY-11 (Active)	178 KITS						[178]	83.921				
FY-12 (Active)	178 KITS										[178]	56.501
FY-13 (Active)	178 KITS											
FY-14 (Active)	178 KITS											
FY-15 (Active)	178 KITS											
FY-16 (Active)	178 KITS											
TOTAL INSTALL					178	81.015	178	83.921			178	56.501
TOTAL COST (BP-1100)	0	258.418	178	106.183	178	115.882	178	106.881			178	107.668
(Totals may not add due to rounding)												
INSTALLATION QTY					178		178				178	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		10.500		10.700		10.900				97.600
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)		10.500		10.700		10.900				97.600
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS										
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)	178	30.530	178	20.260	178	13.590			1246	508.568
EQUIPMENT Group B (Guard)									0	
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT	178	30.530	178	20.260	178	13.590			1246	508.568
EQUIP NONREC Group B (Active)		31.417		11.977		18.015			[0]	90.816
EQUIP NONREC Group B (Guard)									[0]	
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC		31.417		11.977		18.015			[0]	90.816
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
INSTALLATION OF HARDWARE										
FY-10 (Active)			178 KITS						[178]	81.015
FY-11 (Active)			178 KITS						[178]	83.921
FY-12 (Active)			178 KITS						[178]	56.501
FY-13 (Active)		[178]	60.238						[178]	60.238
FY-14 (Active)				[178]	63.355				[178]	63.355
FY-15 (Active)						[178]	60.182		[178]	60.182
FY-16 (Active)								178	60.597	[178]

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL INSTALL	178	60.238	178	63.355	178	60.182	178	60.597	1246	465.809
TOTAL COST (BP-1100) (Totals may not add due to rounding)	178	122.185	178	95.592	178	91.787		60.597	1246	1065.193
INSTALLATION QTY	178		178		178		178		1246	

Method of Implementation: Combination

Initial Lead Time: 12 Months

Follow-On Lead Time: 12 Months

**Milestones**

	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>
Contract Date (Month/CY)							01/11	01/12	01/13	01/14	01/15	01/16
Delivery Date (Month/CY)							01/12	01/13	01/14	01/15	01/16	01/17

**Installation Schedule**

	<u>FY-05</u>				<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																				
Output																																				

  

	<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>				<u>FY-17</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input					45	45	44	44	45	45	44	44	45	45	44	44	45	45	44	44	45	45	44	44
Output					45	45	44	44	45	45	44	44	45	45	44	44	45	45	44	44	45	45	44	44

02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. F119 Engine Modifications MN- F22014

CLC: F-22 Class: P

Models of Systems Affected: F-22A

Center: ASC - Wright Patterson AFB, OH

PE 0207138F

Team AIR

**Description/Justification**

Engine modifications are necessary to improve safety, reliability, maintainability, sustainability, and mission performance of the F119 engine. Currently-planned modifications include work on Rotor 5, fan duct containment, buffer-air heat exchanger, gearbox, nozzle hardware, engine externals and other tasks to improve engine safety, reduce Mean Time Between Maintenance, and lower engine Life Cycle Costs. Engine depot inductions are paid for by this mod program. The next depot induction is scheduled to begin at the end of FY13 and completes in FY16. This is a major contributor to the increases in FY13 and FY14.

This program will fund modifications for engines in 186 aircraft and approximately 65 whole engine spares. There are currently 6,354 kits associated with F119 engine mods. Modifications are made on a per-component basis and so quantities reflect individual kit procurement and installation.

Engine Retrofit kits have lead times ranging from 6 weeks to 21 months with an average of 12 months. Retrofits are performed at either the depot or organizational level depending on the specific modification. Installation costs are shown for modifications performed at the depot level.

Aircraft Breakdown: ACTIVE 6354, RESERVE 0, ANG 0, TOTAL 6354

**Development Status**

The ongoing engine Component Improvement Program (CIP) provides development for F119 engine modifications. The objectives of the engine CIP program are to improve safety of flight, develop solutions to deficiencies, and improve reliability, maintainability, and durability affecting the life cycle cost of aircraft engines.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)												
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS												
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)	0	18.493		0.770	946	17.781	1032	16.610			1195	66.790
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL: EQUIPMENT	0	18.493		0.770	946	17.781	1032	16.610			1195	66.790
EQUIP NONREC Group B (Active)	[0]											
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC	[0]											
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
INSTALLATION OF HARDWARE												
FY-11 (Active)			946 KITS		[946]	0.590						
FY-12 (Active)			1032 KITS				[1032]	0.690				
FY-13 (Active)			1195 KITS								[1195]	0.850
FY-14 (Active)			1104 KITS									
FY-15 (Active)			1135 KITS									
FY-16 (Active)			942 KITS									
TOTAL INSTALL					946	0.590	1032	0.690			1195	0.850
TOTAL COST (BP-1100)	0	18.493		0.770	946	18.371	1032	17.300			1195	67.640
(Totals may not add due to rounding)												
INSTALLATION QTY					946		1032				1195	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS										
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)	1104	65.430	1135	25.090	942	22.080			6354	233.044
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT	1104	65.430	1135	25.090	942	22.080			6354	233.044
EQUIP NONREC Group B (Active)									[0]	
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[0]	
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
INSTALLATION OF HARDWARE										
FY-11 (Active)			946 KITS						[946]	0.590
FY-12 (Active)			1032 KITS						[1032]	0.690
FY-13 (Active)			1195 KITS						[1195]	0.850
FY-14 (Active)			1104 KITS	[1104]	1.090				[1104]	1.090
FY-15 (Active)			1135	[1135]	1.360				[1135]	1.360

**Continued**

	KITS	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-16 (Active)	942 KITS					[942]	0.890			[942]	0.890
TOTAL INSTALL		1104	1.090	1135	1.360	942	0.890			6354	5.470
TOTAL COST (BP-1100) (Totals may not add due to rounding)		1104	66.520	1135	26.450	942	22.970			6354	238.514
INSTALLATION QTY		1104		1135		942				6354	

Method of Implementation: Combination

Initial Lead Time: 12 Months

Follow-On Lead Time: 12 Months

**Milestones**

	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>
Contract Date (Month/CY)		08/06	01/07	01/08	01/09	01/10	01/11	01/12	01/13	01/14	01/15	01/16
Delivery Date (Month/CY)		08/07	01/08	01/09	01/10	01/11	01/12	01/13	01/14	01/15	01/16	01/17

**Installation Schedule**

Quarter	<u>FY-05</u>				<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																				
Output																																				

  

Quarter	<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input					298	299	299	299	276	276	276	276	283	284	284	284	235	235	236	236
Output					300	300	301	301	296	296	296	304	322	323	323	323	234	234	234	234

02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Structures Retrofit Plan MN- F22022

CLC: F-22 Class: P

Models of Systems Affected: F-22

Center: ASC - Wright Patterson AFB, OH

PE 0207138F

Team AIR

**Description/Justification**

A number of F-22 structural improvements were identified during F-22 production to date. Aircraft that were (or will be) produced after identification of particular structural improvements incorporate those improvements. The Structures Retrofit Plan (SRP) is a program designed to retrofit F-22 aircraft with the structural improvements identified after each individual aircraft was produced.

The particular set of SRP treatments and components required for each retrofit kit is particular to the production configuration of each individual F-22. Retrofit procurement costs and installation quantities reflect the particular aircraft receiving modification in each year. All SRP retrofits are accomplished at the depot level and are scheduled according to the F-22 depot flow plan.

Aircraft Breakdown: ACTIVE 151, RESERVE 0, ANG 20, TOTAL 171

**Development Status**

Development continues through 2010.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)				0.057		0.070		1.500				
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)				0.057		0.070		1.500				
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	0		24	16.560	14	37.030	30	24.400			32	27.100
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	0		24	16.560	14	37.030	30	24.400			32	27.100
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)	[0]											
EQUIP NONREC Group B (Guard)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC	[0]											
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
INSTALLATION OF HARDWARE												
FY-10 (Active) 24 KITS					[24]	12.480						
FY-11 (Active) 14 KITS								[14]	13.130			
FY-12 (Active) 30 KITS											[30]	17.240
FY-13 (Active) 32 KITS												
FY-14 (Active) 35 KITS												
FY-15 (Active) 36 KITS												
TOTAL INSTALL					24	12.480	14	13.130			30	17.240
TOTAL COST (BP-1100)	0		24	16.560	14	49.510	30	37.530			32	44.340
(Totals may not add due to rounding)												
INSTALLATION QTY					24		14				30	

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										1.627
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										1.627
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	35	23.800	36	20.940					171	149.830
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	35	23.800	36	20.940					171	149.830
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)									[0]	
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[0]	
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
INSTALLATION OF HARDWARE										
FY-10 (Active)			24 KITS						[24]	12.480
FY-11 (Active)			14 KITS						[14]	13.130
FY-12 (Active)			30 KITS						[30]	17.240
FY-13 (Active)			32 KITS	[32]	19.800				[32]	19.800
FY-14 (Active)			35 KITS	[35]	20.200				[35]	20.200
FY-15 (Active)			36 KITS			[36]	23.090		[36]	23.090

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL INSTALL	32	19.800	35	20.200	36	23.090			171	105.940
TOTAL COST (BP-1100) (Totals may not add due to rounding)	35	43.600	36	41.140		23.090			171	255.770
INSTALLATION QTY	32		35		36				171	

Method of Implementation: Combination

Initial Lead Time: 12 Months

Follow-On Lead Time: 12 Months

**Milestones**

	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>
Contract Date (Month/CY)			01/10	01/11	01/12	01/13	01/14	01/15	01/16
Delivery Date (Month/CY)			01/11	01/12	01/13	01/14	01/15	01/16	01/17

**Installation Schedule**

	<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input													6	6	6	6	4	3	3	4					7	7	8	8	8	8	8	8
Output													6	6	6	6	4	3	3	4					7	7	8	8	8	8	8	8

  

	<u>FY-15</u>				<u>FY-16</u>			
	1	2	3	4	1	2	3	4
Input	8	9	9	9	9	10	9	8
Output	8	9	9	9	9	10	9	8

02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Trainers Modernization MN- F22024

CLC: F-22 Class: P

Models of Systems Affected: F-22

Center: ASC - Wright Patterson AFB, OH

PE 0207138F

Team AIR

**Description/Justification**

This effort provides for the modification of training devices in order to match the configuration of the F-22 aircraft fleet, enabling effective training for F-22 pilots. More than 80 different training devices are currently supported by this effort. The complexity and cost of individual trainer upgrades varies greatly according to the particular modification required for the training device. Kit installation quantities reflect the number of training devices being modified in each year.

Aircraft Breakdown: ACTIVE 60, RESERVE 0, ANG 0, TOTAL 60

**Development Status**

Development began in FY10 and will continue through FY12.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)				0.192		3.500		4.000				
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)				0.192		3.500		4.000				
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	0	13.319			20	8.300	8	5.600			2	1.570
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	0	13.319			20	8.300	8	5.600			2	1.570
KITS NONRECUR Group A (Active)	[0]											
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR	[0]											
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)	[0]					33.200						
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC	[0]					33.200						
CHANGE ORDERS												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
INSTALLATION OF HARDWARE												
FY-11 (Active)      20 KITS					[20]	4.300						
FY-12 (Active)      8 KITS							[8]	3.224				
FY-13 (Active)      2 KITS											[2]	1.803
FY-14 (Active)      20 KITS												
FY-15 (Active)      8 KITS												
FY-16 (Active)      2 KITS												
TOTAL INSTALL					20	4.300	8	3.224			2	1.803
TOTAL COST (BP-1100)	0	13.319			20	45.800	8	8.824			2	3.373
(Totals may not add due to rounding)												
INSTALLATION QTY					20		8				2	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										7.692
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										7.692
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	20	14.000	8	5.770	2	1.760			60	50.319
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	20	14.000	8	5.770	2	1.760			60	50.319
KITS NONRECUR Group A (Active)									[0]	
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									[0]	
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)									[0]	33.200
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[0]	33.200
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
INSTALLATION OF HARDWARE										
FY-11 (Active)	20 KITS								[20]	4.300
FY-12 (Active)	8 KITS								[8]	3.224
FY-13 (Active)	2 KITS								[2]	1.803
FY-14 (Active)	20 KITS	[20]	4.264						[20]	4.264
FY-15 (Active)	8 KITS			[8]	3.224				[8]	3.224
FY-16 (Active)	2 KITS					[2]	1.803		[2]	1.803
TOTAL INSTALL	20	4.264	8	3.224	2	1.803			60	18.618

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL COST (BP-1100) (Totals may not add due to rounding)	20	18.264	8	8.994	2	3.563			60	102.137
INSTALLATION QTY	20		8		2				60	

Method of Implementation: Contract Field Team

Initial Lead Time: 2 Months

Follow-On Lead Time: 6 Months

**Milestones**

	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>
Contract Date (Month/CY)				11/10	08/12	08/13
Delivery Date (Month/CY)				01/11	02/13	02/14

**Installation Schedule**

	<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Input													10	9	1	1	3	3	1						1		1						10	9	1	
Output													10	9	1	1	3	3	1						1		1						10	9	1	
	<u>FY-15</u>				<u>FY-16</u>																															
	1	2	3	4	1	2	3	4																												
Quarter	1	2	3	4	1	2	3	4																												
Input	1	3	3	1	1			1																												
Output	1	3	3	1	1			1																												

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> February 2011			
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: F-35</b>					
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16	
<b>COST (In Mil)</b>	\$0.000	\$123.936	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	

Total include funding for PRCP Program Number (PNO) 198, JSF

The Joint Strike Fighter (JSF) (F-35) program will develop and deploy a family of highly common, affordable next generation, stealthy, multi-role strike fighter aircraft that meets the needs of multiple services and countries. The specific modifications budgeted and programmed for FY11 are below. Due to an inadvertent error the Air Force requests a technical adjustment transferring \$29.700M from P-1 Line No. 43, "F-35 Modifications" to P-1 Line No. 1, "F-35".

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	F3512	JSF F35 Mod		123.9									123.9
<b>TOTAL FOR CLASS P</b>				123.9									123.9
<b>TOTAL FOR WEAPON SYSTEM F-35</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 42	PAGE NO. 1	
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications					P-1 LINE ITEM NOMENCLATURE: C-5				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$599.560	\$103.674	\$11.741	\$59.299	\$71.040	\$10.114	\$6.223	\$6.313	\$7.373

Totals include funding for PRCP Program Number 273, C-5 AMP.  
Totals include funding for PRCP Program Number 327, C-5 RERP.

\$676.457M in FY11 C-5 RERP funding and \$33.638M in FY11 C-5 AMP funding of the \$813.769M FY11 funds in P-1 Line 43 of the P-1 Exhibit are justified separately in the C-5 RERP and C-5 AMP P-40 and P-3A Exhibits. This exhibit justifies the remaining \$103.674M FY11 C-5 funds.

FY10 funding totals include \$57.4M of appropriated Overseas Contingency Operations funding.

FY11 funding totals include \$73.4M requested for Overseas Contingency Operations.

This line item funds modifications to the C-5 aircraft. The four-engine C-5 carries outsized and heavy cargo (tanks, helicopters, etc.) between main operating bases. The aircraft routinely carries 73 troops and 36 standard 463-L pallets. Modifications enhance operational capability while improving flight safety, reliability, and maintainability.

Modifications budgeted and programmed are below. Primary modifications for FY12 are LAIRCM and Block Upgrade. Projected allocations for Reserve Component requirements (modification kits and installation costs, subject to Total Force mission priorities and air craft availability). There are 111 in the C-5 inventory as of January 2011.

The C-5 fleet was delivered to the Air Force from 1969 to 1989 and is expected to continue service past 2040.

	2010	2011	2012	2013	2014	2015	2016
AFR	13.400	5.900	2.000	0	3.900	1.500	0
ANG	42.700	15.000	3.800	0.100	0.300	0.500	0

CLASS	MOD NR	MODIFICATION TITLE	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16	COST TO GO	TOTAL PROG
P	6032	COMPARTMENT FLOOR CORROSION PREVENTION	0.2	2.0	0.6		0.6	0.5					5.3
	6038	AVIONICS MODERNIZATION PROGRAM			60.8								688.5
	6154	C-5 RELIABILITY ENHANCEMENT & REENGINEING PROGRAM (RERP)			437.9								849.7
	8629	LARGE AIRCRAFT	66.8	78.5	3.2	59.3	62.5	3.1	5.2	5.3	5.4	1.4	404.5

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 43	PAGE NO. 1	
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>	<b>P-1 LINE ITEM NOMENCLATURE: C-5</b>
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<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12OCO</u>	<u>FY-12Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
		INFRARED COUNTERMEASURES (LAIRCM)											
	8869	Defensive System Installation	4.8										21.8
	8965	C-5 Fleet Blk Upgrade 01		21.3	7.6		7.6	6.0					34.9
	99999X	LOW COST MODIFICATIONS	0.1	1.8	0.4		0.4	0.4	1.0	1.0	2.0		11.5
	Z88888	ADJUSTMENTS	29.0										29.0
<b>TOTAL FOR CLASS P</b>			599.6	103.7	11.7	59.3	71.0	10.1	6.2	6.3	7.4	1.4	2045.2
<b>TOTAL FOR WEAPON SYSTEM C-5</b>			599.6	103.7	11.7	59.3	71.0	10.1	6.2	6.3	7.4	1.4	2045.2

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 43	PAGE NO. 2	
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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM) MN- 8629  
Models of Systems Affected: C-5A/B/C/M Center: WRALC Robins AFB GA

CLC: C-5 Class: P  
PE 0401119F Team MOBIL

**Description/Justification**

The Large Aircraft InfraRed CounterMeasure (LAIRCM) system provides a significantly improved defensive capability for the C-5 to counter the proliferating InfraRed (IR) Man-Portable Air Defense System (MANPAD) missile threats. The system is fully automatic following power-up and consists of Group A aircraft modification kits and Group B equipment. The LAIRCM system [AN/AAQ-24(V)] consists of 5 Missile Warning Sensors (MWS), 2 (lite configuration) or 3 (full configuration) Guardian Laser Transmitter Assembly (GLTA) colorless eye-safe multiband lasers, Control Indicator Unit (CIU), 2 repeaters, and a system processor to detect, track, and counter incoming IR missiles.

The change orders include Diminishing Manufacturing Source (DMS) costs for the identification, review, and monitoring of items with high DMS risk potential, classification of identified items according to criticality, expected replacement cost, identification of alternates for items having high DMS risks, and Non-Recurring Engineering (NRE)/replacement costs for DMS components. Additionally, "Change Orders" include NRE/replacement costs for equipment updates designed to increase reliability, availability, maintainability of LAIRCM Group B components as identified during the Fiscal Year.

Notes:

FY07 procured 5 A & B GLTA kits and 1 install  
FY07 GWOT procured 3 A & B GLTA kits and installs  
FY08 funded installation of 4 FY07 kits and support requirements.  
FY09 procured 5 A & B GLTA kits.  
FY09 OCO procured 10 A & B GLTA kits and 8 installs  
FY10 funded installation of 5 FY09 kits and support requirements  
FY10 OCO procured 7 A & B GLTA kits and 9 installs (2 FY09 OCO kits & 7 FY10 OCO kits)  
FY11 OCO procures 9 A & B GLTA kits and installs.  
FY12 OCO procures 9 A & B GLTA kits and installs.  
FY14 procures 1 A kit  
FY15 funds installation of 1 FY14 kit and support requirements  
FY16 procures 1 A kit  
FY17 funds installation of 1 FY16 kit and support requirements

LAIRCM is a "buy-to-budget" program. FY05 - FY10 have been adjusted to reflect actuals. Long range plan is to fund/modify all C-5A/B/M aircraft retained in the Air Force inventory with the LAIRCM system. This program operates under a "buy to budget" profile. 34 production C-5s are funded through FY16 (not including 1 RDT&E) and are planned for modification under the current budget profile. Below includes an additional 16 production aircraft in FY11 and FY12 Overseas Contingency Operations requests, resulting in a total of 51 aircraft ( 1 RDT&E, 50 Production and GWOT funded). Initially, LAIRCM modified C-5s (along with the RDT&E aircraft) will be fielded with two aft, side mounted GLTAs to accelerate fielding of this defensive system. This is known as the "lite" configuration.

The "Other" line item in the Procurement (3010) Projected Financial Plan section represents Item Unique Identification (IUID) costs and study analysis efforts.

This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0401134F.

NOTE:

FY 2009 funding totals include \$64.9M for appropriated supplemental Overseas Contingency Operations funding.  
FY 2010 funding totals include \$52.6M for appropriated supplemental Overseas Contingency Operations funding.  
FY 2011 funding totals include \$73.4M requested for Overseas Contingency Operations.

"INSTALLATION OF HARDWARE" and the "Installation Schedule" section are aligned with Group A installs.

C-5 Group B Kit Procurement & Install

Kit Procurement

Fact Sheet: C-5 MN 8629 LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)

(Continued)

	Prior	2010	2011	2012	2013	2014	2015	2016
Active	23	7	3	0	0	0	0	0
AFR	0	0	6	9	0	1	0	1

Install Schedule

	Prior	2010	2011	2012	2013	2014	2015	2016
Active	7	7	9	9	1	0	0	0
AFR	0	0	0	0	8	7	1	0

(NOTE: Aircraft Breakout includes 1 aircraft [ACTIVE] procured with RDT&E)

Aircraft Breakdown: ACTIVE 34, RESERVE 17, ANG 0, TOTAL 51

**Development Status**

Development of C-5 A/B/M LAIRCM Phase 1 (GLTA with ultra-violet MWS, processor, and CIU) Group B contract was awarded December 2005 to Northrup Grumman. The Group A contract was awarded January 2006 to Lockheed Martin.

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)	[1]	26.896										
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)	[1]	26.896										
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	23	23.943	7	7.655	3	3.219						
INSTALL KITS Group A (Guard)	0											
INSTALL KITS Group A (Reserve)	0				6	6.438			9	9.900		
TOTAL: INSTALL KITS	23	23.943	7	7.655	9	9.657			9	9.900		
KITS NONRECUR Group A (Active)	[0]											
KITS NONRECUR Group A (Guard)	[0]											
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR	[0]											
EQUIPMENT Group B (Active)	[23]	77.717	[7]	26.776	[3]	11.736						
EQUIPMENT Group B (Guard)	[0]											
EQUIPMENT Group B (Reserve)	[0]				[6]	23.665			[9]	36.945		
TOTAL: EQUIPMENT	[23]	77.717	[7]	26.776	[9]	35.401			[9]	36.945		
EQUIP NONREC Group B (Active)												

**Projected Financial Plan Continued**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
EQUIP NONREC Group B (Guard)	[0]											
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC	[0]											
CHANGE ORDERS		26.940		0.174		8.218		1.033				2.000
DATA												
SIM/TRAINER												
SUPPORT- EQUIP		0.473				0.423						0.636
INITIAL SPARES		7.749		2.900		9.565				2.996		
OTHER		0.170										
TRAINING		0.075				0.044				0.044		
ICS		3.696										
CONTRACTOR SUPPORT		0.000		3.875		4.236		2.102				0.124
DEPOT STAND-UP		4.038		1.050								
PROGRAM MNGMT		1.494				1.900		0.055				0.387
OGC		7.901		1.591		1.878				1.878		
Withhold Adjustments				11.804								
INSTALLATION OF HARDWARE												
FY-07 (Active)	8 KITS	[7] 16.116	[1]									
FY-09 (Active)	15 KITS	5.950	[6]	5.499	[9]							
FY-10 (Active)	7 KITS			5.499				[7]				
FY-11 (Active)	3 KITS					2.400		[2]			[1]	
FY-11 (Reserve)	6 KITS					4.800					[6]	
FY-12 OCO (Reserve)	9 KITS									7.536	[2]	
FY-14 (Reserve)	1 KITS											
FY-16 (Reserve)	1 KITS											
TOTAL INSTALL	7	22.066	7	10.998	9	7.200	9			7.536	9	
TOTAL COST (BP-1100) (Totals may not add due to rounding)	23	176.262	7	66.823	9	78.522		3.190	9	59.299		3.147
INSTALLATION QTY	7		7		9		9				9	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)									[1]	26.896
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)									[1]	26.896
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									33	34.817
INSTALL KITS Group A (Guard)									0	
INSTALL KITS Group A (Reserve)	1	1.100			1	1.247			17	18.685
TOTAL: INSTALL KITS	1	1.100			1	1.247			50	53.502
KITS NONRECUR Group A (Active)									[0]	
KITS NONRECUR Group A (Guard)									[0]	
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									[0]	
EQUIPMENT Group B (Active)									[33]	116.229
EQUIPMENT Group B (Guard)									[0]	
EQUIPMENT Group B (Reserve)									[15]	60.610
TOTAL: EQUIPMENT									[48]	176.839
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)									[0]	
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[0]	
CHANGE ORDERS		3.443		3.247		3.424		0.035		48.514
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										1.532
INITIAL SPARES										23.210
OTHER										0.170
TRAINING										0.163
ICS										3.696
CONTRACTOR SUPPORT		0.196		0.202		0.206		0.072		11.013
DEPOT STAND-UP										5.088
PROGRAM MNGMT		0.500		0.653		0.500		0.023		5.512
OGC				0.210				0.210		13.668

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
Withhold Adjustments										11.804
INSTALLATION OF HARDWARE										
FY-07 (Active)	8 KITS								[8]	16.116
FY-09 (Active)	15 KITS								[15]	11.449
FY-10 (Active)	7 KITS								[7]	5.499
FY-11 (Active)	3 KITS								[3]	2.400
FY-11 (Reserve)	6 KITS								[6]	4.800
FY-12 OCO (Reserve)	9 KITS	[7]							[9]	7.536
FY-14 (Reserve)	1 KITS		[1]	1.000					[1]	1.000
FY-16 (Reserve)	1 KITS						1	1.011	[1]	1.011
TOTAL INSTALL	7		1	1.000			1	1.011	50	49.811
TOTAL COST (BP-1100)	1	5.239		5.312	1	5.377		1.351	50	404.522
(Totals may not add due to rounding)										
INSTALLATION QTY	7		1				1		50	

Method of Implementation: Contractor Facility

Initial Lead Time: 12 Months

Follow-On Lead Time: 12 Months

**Milestones**

	<u>FY-04</u>	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>
Contract Date (Month/CY)				01/07	01/08	01/09	01/10	01/11	01/12	01/13	01/14	01/15	01/16	01/17
Delivery Date (Month/CY)				01/08	01/09	01/10	01/11	01/12	01/13	01/14	01/15	01/16	01/17	01/18

**Installation Schedule**

	<u>FY-04</u>				<u>FY-05</u>				<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																	1	0	1	0	2	1	2	1	2	2	2	2	2	2	2	3
Output																	1	0	1	0	2	2	2						2	2	3	2

  

	<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>				<u>FY-17</u>							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Input	2	2	2	3					2	2	2	3	2	2	2	1	1								1							
Output	3	2	2	2					3	2	2	2	3	2	2	2	3												1			

02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. C-5 Fleet Blk Upgrade 01 MN- 8965

Models of Systems Affected: C-5A/B/C/M

Center: WRALC Robins AFB GA

PE 0401119F

CLC: C-5 Class: P

Team MOBIL

**Description/Justification**

The C-5 Aircraft Communication Addressing and reporting System (ACARS) Aeronautical Operational Contract (AOC) message set requires updating to the standard message set published in Mobility Air Forces (MAF) ACARS Concept of Employment and Standardized Message Set, 1 March 2010. Additional message sets need to be added to the standard, top of climb and start descent position reports. This update will complete the automation of data for fuel analyses. The Fuel Efficiency Office (FEO) will use the revised, consistent data to fulfill Aircraft Mobility Command (AMC) fuels mandate of developing, tracking and analyzing fuel usage metric.

Aircraft Breakdown: ACTIVE 0, RESERVE 9, ANG 18, TOTAL 27

**Development Status**

RDT&E funds are included in PE 0401119F to support C-5 fleet software and hardware changes for the Block Upgrade Program. Block Upgrade development is on contract and progressing towards meeting the requirement to achieve a common configuration for current aircraft and training systems.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)				12.884		12.979						
RDT & E (3600) (Reserve)				6.442		6.490						
Total RDT & E (3600)				19.326		19.469						
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)												
INSTALL KITS Group A (Guard)			[0]		[0]	0.000						
INSTALL KITS Group A (Reserve)			[0]		[0]	0.000						
TOTAL: INSTALL KITS			[0]		[0]	0.000						
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)			[0]		[18]	2.242						
EQUIPMENT Group B (Reserve)			[0]		[9]	1.122						
TOTAL: EQUIPMENT			[0]		[27]	3.364						
EQUIP NONREC Group B (Active)						0.000						
EQUIP NONREC Group B (Guard)						0.000						

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC					[0]	0.000						
CHANGE ORDERS						1.390						
DATA						1.670						
SIM/TRAINER					[19]	2.850						
SUPPORT- EQUIP						0.000						
INITIAL SPARES					[40]	1.400						
TRAINING						0.375						
PMA						0.200						
MOD OF SPARES					[98]	8.936						
INSTALL KITS					[0]	0.000						
SOFTWARE								7.600				6.000
OGC						1.075						
INSTALLATION OF HARDWARE												
TOTAL INSTALL												
TOTAL COST (BP-1100)						21.260		7.600				6.000
(Totals may not add due to rounding)												
INSTALLATION QTY												

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										25.863
RDT & E (3600) (Reserve)										12.932
Total RDT & E (3600)										38.795
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)									[0]	0.000
INSTALL KITS Group A (Reserve)									[0]	0.000
TOTAL: INSTALL KITS									[0]	0.000
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)									[18]	2.242
EQUIPMENT Group B (Reserve)									[9]	1.122
TOTAL: EQUIPMENT									[27]	3.364
EQUIP NONREC Group B (Active)									[0]	0.000
EQUIP NONREC Group B (Guard)									[0]	0.000
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[0]	0.000
CHANGE ORDERS										1.390
DATA										1.670
SIM/TRAINER									[19]	2.850
SUPPORT- EQUIP										0.000
INITIAL SPARES									[40]	1.400
TRAINING										0.375
PMA										0.200
MOD OF SPARES									[98]	8.936
INSTALL KITS									[0]	0.000
SOFTWARE										13.600
OGC										1.075
INSTALLATION OF HARDWARE										



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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: C-5 AMP</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$0.000	\$33.638	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000

Total includes funding for PRCP Program Number 273, C-5 AMP.

The \$33.638M FY11 C-5 AMP funds justified in this document are contained in the \$813.769M of FY11 funds shown in P-1 Line Number 43 of the P-1 Exhibit.

Prior to FY11, funds were budgeted in the C-5 Modifications line item. Projected allocations for Reserve Component requirements (modification kits and installation costs, subject to Total Force mission priorities and aircraft availability):

	2009	2010	2011	2012	2013	2014	2015	2016
AFR	0.000	0.000	1.264	0.000	0.000	0.000	0.000	0.000
ANG	0.000	0.000	1.264	0.000	0.000	0.000	0.000	0.000

The Prior Years funding estimate is \$627.676M.

FY11 is the last year of funding for the C-5 Avionics Modernization Program.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	6038	AVIONICS MODERNIZATION PROGRAM		33.6									33.6
<b>TOTAL FOR CLASS P</b>				33.6									33.6
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS</b>			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>TOTAL FOR WEAPON SYSTEM C-5 AMP</b>			0.0	33.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.6

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 43	PAGE NO. 1	
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: C-5 RERP</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$0.000	\$676.457	\$851.859	\$0.000	\$851.859	\$936.024	\$1012.009	\$330.946	\$0.000

Totals include funding for PRCP Program Number 327, C-5 RERP.

The \$676.457M FY11 C-5 RERP funds justified in this document are contained in the \$813.769M funds shown in P-1 Line 43 in the P-1 Exhibit. FY12-15 funds justified in this document are shown in P-1 Line 45 of the P-1 Exhibit.

This line item funds modifications to the C-5 aircraft. The four-engine C-5 carries outsized and heavy cargo between main operating bases. Prior to FY11, funds were budgeted in the C-5 Modifications line item. Projected allocations for Reserve Component requirements (modification kits, subject to Total Force mission priorities and aircraft availability):

	2010	2011	2012	2013	2014	2015	2016
AFR	0.000	0.000	0.000	256.800	700.700	296.300	0.000
ANG	0.000	0.000	0.000	0.000	0.000	0.000	0.000

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	6154	C-5 Reliability Enhancement and Re-Engining Program		676.5	851.9		851.9	936.0	1012.0	330.9			3807.3
<b>TOTAL FOR CLASS P</b>				676.5	851.9		851.9	936.0	1012.0	330.9			3807.3
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS</b>			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>TOTAL FOR WEAPON SYSTEM C-5 RERP</b>			0.0	676.5	851.9	0.0	851.9	936.0	1012.0	330.9	0.0	0.0	3807.3

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

P-1 SHOPP LIST ITEM NO. 43 / 45	PAGE NO. 1
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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. C-5 Reliability Enhancement and Re-Engining Program MN- 6154  
Models of Systems Affected: C-5B/C Center: WRALC Robins AFB GA

CLC: C-5 RERP Class: P  
PE 0401119F Team MOBIL

**Description/Justification**

C-5 Reliability Enhancement and Re-engining Program (RERP) is a comprehensive modernization effort to improve aircraft reliability, maintainability and availability. This effort centers around replacing the current TF39 engines with more reliable, Commercial Off-the-Shelf CF6 turbofan engines. The new engines increase payload capability and access to Communications, Navigation, Surveillance/Air Traffic Management (CNS/ATM) airspace. The modification also decreases aircraft time to climb, increases engine-out climb gradient for takeoff, improves transportation system throughput and decreases engine removals. On 7 Oct 10, USD AT&L conducted a successful full rate production (FRP) Decision Acquisition Board (DAB) and approved the C-5 RERP FRP ADM for lots 5 – 7; directed Air Force to fully fund RERP to the OSD Cost Assessment and Program Evaluation (CAPE) Independent Cost Estimate (ICE) for RDT&E; and re-designated C-5 RERP as an Acquisition Category IC program.

"Interim Contractor Support (ICS)" and "Equipment" costs include Diminishing Manufacturing Source (DMS) costs for the identification, review, and monitoring of items with high DMS risk potential, classification of identified items according to criticality and expected obsolescence date, identification of alternatives for items having high DMS risks, and Non-Recurring Engineering (NRE)/replacement costs for DMS components. Additionally, "ICS" and "Equipment" includes NRE/replacement costs for equipment updates designed to increase availability and maintainability of components as identified during the fiscal year. Equipment DMS issues will be resolved to support continued operations through bridge buys, life-of-type buys, development, and redesign efforts.

The "Other" line item in the aircraft procurement Projected Financial Plan section represents Item Unique Identification (IUID) costs.

"Change Orders" also include funding for over-and-above repairs of legacy aircraft components required to complete the C-5 RERP modification.

Initial Spares funding in FY12-14 was moved to initial spares in BA-06.

Type I training costs are included under ICS due to nonavailability of training devices.

This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0401119F.

Beginning in FY11, C-5 RERP was established as a separate P-1. As a result, this document only covers FY11 and future funding. Documentation for FY10 and prior funding is in a separate P3A.

The total production program aircraft installation breakdown is: Active 33, Reserve 16, Guard 0, Total 49. This document only reflects the 40 production aircraft from FY11 to FY15.

Aircraft Breakdown: ACTIVE 24, RESERVE 16, ANG 0, TOTAL 40

**Development Status**

The three production representative C-5Ms developed in SDD completed Qualification Operational Test and Evaluation (QOT&E) on 11 Jan 10. Development efforts in FY10/FY11 have focused on the correction of deficiencies from QOT&E. Additionally, a portion of avionics capability not complete at the end of AMP has been incorporated into the RERP baseline.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)						34.654		24.941				
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)						34.654		24.941				
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS												
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)					7	347.311	11	538.871			6	308.163
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)											5	256.803
TOTAL: EQUIPMENT					7	347.311	11	538.871			11	564.966
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS						31.519		70.577				94.175
DATA												
SIM/TRAINER												
SUPPORT- EQUIP						9.826		13.877				7.008
ATD KITS								[4]	20.330		[1]	5.202
GFE						27.100			32.388			33.818
ICS						26.951			12.289			0.369
OGC						10.815			25.905			26.687
INITIAL SPARES						104.723						
OTHER						0.068			0.099			0.101
INSTALLATION OF HARDWARE												
FY-11 (Active)			7 KITS		[5]	118.144						
FY-12 (Active)			11 KITS					[7]	137.523			
FY-13 (Active)			6 KITS								[11]	203.698
FY-13 (Reserve)			5 KITS									
FY-14 (Active)			0 KITS									
FY-14 (Reserve)			11 KITS									

**Projected Financial Plan Continued**

		<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-15 (Reserve)	0 KITS												
TOTAL INSTALL						5	118.144	7	137.523			11	203.698
TOTAL COST (BP-1100)						7	676.457	11	851.859			11	936.024
(Totals may not add due to rounding)													
INSTALLATION QTY						5		7				11	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										59.595
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										59.595
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS										
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)									24	1194.345
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)	11	574.744		31.999					16	863.546
TOTAL: EQUIPMENT	11	574.744		31.999					40	2057.891
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS		103.790		59.611						359.672
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										30.711
ATD KITS									[5]	25.532
GFE		27.744		2.488						123.538
ICS										39.609
OGC		28.534		12.570						104.511
INITIAL SPARES										104.723
OTHER		0.103								0.371
INSTALLATION OF HARDWARE										
FY-11 (Active)			7 KITS						[5]	118.144

**Continued**

		<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-12 (Active)	11 KITS									[7]	137.523
FY-13 (Active)	6 KITS									[11]	203.698
FY-13 (Reserve)	5 KITS										
FY-14 (Active)	0 KITS	[6]	151.142							[6]	151.142
FY-14 (Reserve)	11 KITS	[5]	125.952							[5]	125.952
FY-15 (Reserve)	0 KITS			[11]	224.278					[11]	224.278
<b>TOTAL INSTALL</b>		<b>11</b>	<b>277.094</b>	<b>11</b>	<b>224.278</b>					<b>45</b>	<b>960.737</b>
<b>TOTAL COST (BP-1100)</b> (Totals may not add due to rounding)		<b>11</b>	<b>1012.009</b>		<b>330.946</b>					<b>40</b>	<b>3807.295</b>
<b>INSTALLATION QTY</b>		<b>11</b>		<b>11</b>						<b>45</b>	

Method of Implementation: Contractor Facility

Initial Lead Time: 12 Months

Follow-On Lead Time: 12 Months

**Milestones**

	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>
Contract Date (Month/CY)					10/10	10/11	10/12	10/13	10/14
Delivery Date (Month/CY)					10/11	10/12	10/13	10/14	10/15

**Installation Schedule**

	Quarter	<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																		2	1	2	1	2	2	2					2	3	3	3	
Output																		1	1	1	1	1	2	1					2	2	2	3	

  

	Quarter	<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>			
		1	2	3	4	1	2	3	4	1	2	3	4
Input		2	3	3	3	2	3	3	3				
Output		2	3	3	3	3	2	3	3	3	3	3	

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<b>Exhibit P-40, Budget Item Justification</b>	Date: February 2011
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 05, Modification of Inservice Aircraft, Item No. 44 / 46</b>	P-1 Line Item Nomenclature <b>C-5 Advance Procurement</b>

Program Element for Code B Items			Other Related Program Elements										
	ID Code	Prior Years	FY 2010	FY 2011	FY 2012	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	To Comp	Total
Proc Qty							0						0
Cost(\$ M)		158.120	107.966	166.900	112.200		112.200	175.800	0.000	0.000	0.000	0.000	720.986
Advance Proc Cost(\$ M)							0.000						0.000
Weapon System Cost(\$ M)		158.120	107.966	166.900	112.200	0.000	112.200	175.800	0.000	0.000	0.000	0.000	720.986
Initial Spares(\$ M)							0.000						0.000
Total Proc Cost(\$ M)		158.120	107.966	166.900	112.200	0.000	112.200	175.800	0.000	0.000	0.000	0.000	720.986
Flyaway Unit Cost(\$ M)							0.000						0.000
Wpns Sys Unit Cost(\$ M)							0.000						0.000

**Description**

Totals include funding for Program Resources Collection Process (PRCP) Program Number 327, C-5 RERP.

This document justifies Advance Procurement contained in both P-1 Line Number 44 and P-1 Line 46 in the P-1 Exhibit.

The FY12 advance procurement (AP) requirement is \$175.3M. This FY12 AP request for \$112.2M has been reduced by \$63.1M from previous budgets. The FY12 AP budget of \$112.2M is not sufficient by itself to meet the contractual obligations for FY12 RERP AP. The FY12 AP requirement will be executed with FY12 (\$112.2M) and FY11 (\$63.1M) funds. Due to the award of the FY11 AP under a continuing appropriation on 21 Oct 2010, the Air Force was required to reprogram \$63.1M from prior years to meet the FY11 AP contractual obligation. The Department adjusted the FY12 RERP AP budget to reflect the availability of \$63.1M in FY11 AP funds available for the FY12 RERP AP requirement.

FY09 & FY10 APAF funds were reprogrammed into FY09 & FY10 AP to fund the FY11 AP contract award in Oct 2010.

The AP quantity profile for FY12 is 11 aircraft. The AP funds will be used to procure long-lead components. Installation and associated costs for AP items are identified in Mod 6154.

Projected Allocations By Component (Subject to Total Force Mission Priorities and Aircraft Availability):

	2010	2011	2012	2013	2014	2015	2016
AFR	0.000	0.000	79.682	175.800	0.000	0.000	0.000
ANG	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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<b>Exhibit P-40, Budget Item Justification</b>	Date: February 2011
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 05, Modification of Inservice Aircraft, Item No. 44 / 46</b>	P-1 Line Item Nomenclature <b>C-5 Advance Procurement</b>
<p><b><u>Description Continued</u></b></p> <p>The total program aircraft breakdown is: Active 33, Reserve 16, Guard 0, Total 49</p> <p><b>FY 2012 Program Justification</b></p> <p>This is the Advance Procurement exhibit for the C-5 Reliability Enhancement and Re-engining Program (RERP). Funding procures long-lead components to support 11 modification kits. See Mod 6154 for complete description/justification.</p>	
P-1 Shopping List Item No. 44 / 46	<b>Budget Item Justification</b> <b>Exhibit P-40, page 2 of 5</b>

**Exhibit P-10 p.1. Advance Procurement Requirements Analysis  
(Page 1 – Funding)**

Date: February 2011

Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number

**Aircraft Procurement, Air Force, Budget Activity 05, Modification of Inservice  
Aircraft, Item No. 44 / 46**

P-1 Line Item Nomenclature

**C-5 Advance Procurement**

Weapon System	First System Award Date	First System Completion Date	Interval Between Systems
C-5 AP	Jan-10	Jan-10	

(\$ in Millions)

Description	PLT	When Rqd	Prior Years	FY 2010	FY 2011	FY 2012	FY 2012 OCO	FY 2013	FY 2014	FY 2015	FY 2016	To Comp	Total
End Item Qty													0
CFE			158.120	141.566	166.900	112.200		175.800					754.586
Engines													0.000
GFE													0.000
EOQ													0.000
Design													0.000
Term Liability													0.000
<b>TOTAL AP</b>			158.120	141.566	166.900	112.200	0.000	175.800	0.000	0.000	0.000	0.000	754.586

P-1 Shopping List Item No. 44 / 46

**Advance Procurement Requirements Analysis  
(Page 1 - Funding)**

**Exhibit P-10, p. 1, page 3 of 5**

**Exhibit P-10 p.2. Advance Procurement Requirements Analysis  
(Page 2 – Budget Justification)**

Date: February 2011

Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number

**Aircraft Procurement, Air Force, Budget Activity 05, Modification of Inservice  
Aircraft, Item No. 44 / 46**

P-1 Line Item Nomenclature

**C-5 Advance Procurement**

Weapon System

C-5 AP

(TOA, \$ in Millions)

Description	PLT	QPA	Unit Cost	2010 QTY	2010 Contract Forecast Date	2010 Total Cost Request	2011 QTY	2011 Contract Forecast Date	2011 Total Cost Request	2012 QTY	2012 Contract Forecast Date	2012 Total Cost Request	2012 OCO Contract Forecast Date	2012 OCO Total Cost Request
End Item														
CFE				7	Oct-09	141.566	11	Oct-10	166.900	11	Oct-11	112.200		
GFE														
EOQ														
Design														
Term Liability														
TOTAL AP						141.566			166.900			112.200		0.000

**Description**

The FY12 advance procurement (AP) requirement is \$175.3M. This FY12 AP request for \$112.2M has been reduced by \$63.1M from previous budgets. The FY12 AP budget of \$112.2M is not sufficient by itself to meet the contractual obligations for FY12 RERP AP. The FY12 AP requirement will be executed with FY12 (\$112.2M) and FY11 (\$63.1M) funds. Due to the award of the FY11 AP under a continuing appropriation on 21 Oct 2010, the Air Force was required to reprogram \$63.1M from prior years to meet the FY11 AP contractual obligation. The Department adjusted the FY12 RERP AP budget to reflect the availability of \$63.1M in FY11 AP funds available for the FY12 RERP AP requirement.

P-1 Shopping List Item No. 44 / 46

**Advance Procurement Requirements Analysis  
(Page 2 - Budget Justification)  
Exhibit P-10, p. 2, page 4 of 5**

**Exhibit P-10 p.2. Advance Procurement Requirements Analysis  
(Page 2 – Budget Justification)**

Date: February 2011

Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number

**Aircraft Procurement, Air Force, Budget Activity 05, Modification of Inservice  
Aircraft, Item No. 44 / 46**

P-1 Line Item Nomenclature

**C-5 Advance Procurement**

FY09 & FY10 APAF funds were reprogrammed into FY09 & FY10 AP to fund the FY11 AP contract award in Oct 2010.

The AP quantity profile for FY12 is 11 aircraft. The AP funds will be used to procure long-lead components. Installation and associated costs for AP items are identified in Mod 6154.

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: C-9</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$0.010	\$0.010	\$0.009	\$0.000	\$0.009	\$0.000	\$0.000	\$0.000	\$0.000

This line item funds low-cost modifications and service bulletins for the C-9 aircraft, commercial equivalent to the DC-9. The C-9 aircraft is a twin-turbofan engine aircraft used for cargo and passenger airlift over medium ranges (2,000 miles). Service bulletins are necessary for continuing FAA certification while improving flight safety, reliability, and maintainability. The specific modifications budgeted and programmed are below.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	99999S	SERVICE BULLETINS	0.0	0.0	0.0		0.0						0.0
	99999X	LOW COST MODIFICATIONS	0.0	0.0	0.0		0.0						0.0
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			0.0	0.0	0.0		0.0						0.0
<b>TOTAL FOR WEAPON SYSTEM C-9</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: C-17</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$321.969	\$576.064	\$202.179	\$0.000	\$202.179	\$329.867	\$334.844	\$357.017	\$349.739

Totals include funding for Program Resources Collection Process (PRCP) Program Number 200, C-17A.

The program funding includes reductions for overhead reduction efficiencies that are not intended to impact program content. The efficiencies reductions total \$20.466M in FY12.

FY2010 funding totals include \$120.725M appropriated for Overseas Contingency Operations for LAIRCM.

FY2011 funding totals include \$224.45M requested for Overseas Contingency Operations for LAIRCM.

This line item funds modifications to the C-17 aircraft. The four engine C-17 is the only aircraft capable of routine delivery of outsize cargo (tanks, helicopters, etc.) to short, austere airfields. The aircraft can carry up to 102 troops, 36 litter patients, or 18 standard 463-L pallets. The current C-17 inventory is 192 Aircraft with a designated service life of 30 years. The average service life remaining is currently 21 years. Major C-17 modifications in FY12 include Pylon Stub FFLZ, Block 13-17 Retrofit, ER/OBIGGS II, OBIGGS II and LAIRCM.

Projected allocations for Reserve Component requirements (modification kits and installation costs, subject to Total Force mission priorities and aircraft availability):

	2010	2011	2012	2013	2014	2015	2016
AFR	0.500	0.500	1.200	1.600	2.400	3.400	0
ANG	0.500	0.500	1.200	1.600	2.400	23.400	0

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	_2000	Pylon Stub FFLZ, FF, Translating Fairing	16.2	23.4	12.9		12.9	22.8	23.3	26.8	4.3	4.5	152.1
	_2590	ELT Frequency Change		1.2	2.0		2.0	2.1	2.2	0.8			8.3
	_2633	MFOQA		1.9	1.4		1.4	1.5	1.4	1.0			7.1
	_3080	Replacement Heads Up Display (RHUD)								2.8	23.9	177.4	204.1
	_359	C-17 Sim Threat Generator	3.2	3.3	1.2		1.2						12.0
	_8962	Block 13 to 17 Retrofit	32.6	200.3	108.8		108.8	155.9	87.2	75.5	20.8		1103.8
	1508	IFF GATM Mode 5			2.6		2.6	5.0	13.8	16.9	17.1	50.3	105.7

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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**BUDGET ITEM JUSTIFICATION  
(EXHIBIT P-40)**

**DATE:** February 2011

**APPROPRIATION/BUDGET ACTIVITY:**

**AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications**

**P-1 LINE ITEM NOMENCLATURE: C-17**

CLASS	MOD NR	MODIFICATION TITLE	FY-10	FY-11	FY-12	FY-12		FY-13	FY-14	FY-15	FY-16	COST TO GO	TOTAL PROG
						FY-12OCO	FY-12Total						
	2901	NEXT GEN CNS/ATM								1.1	5.2	168.4	174.7
	6402	OBIGGS II		26.5	12.0		12.0	15.4	30.8	39.9	49.3	216.7	438.1
	6412	Extended Range Retrofit/OBIGGS II		34.6	28.0		28.0	10.3	53.4	69.7	105.7	666.0	1093.2
	8629	LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)	267.9	283.0	32.7		32.7	113.2	118.8	119.1	119.8	113.0	1992.5
	9736	Communication and Navigation Capability							0.6	0.0	0.2	1.4	2.1
	9739	ILS Identification and Flight Control Computer Updates			0.6		0.6	1.5	1.5	1.5	1.6	4.2	10.9
	99999X	LOW COST MODIFICATIONS	2.0	2.0	0.1		0.1	2.0	2.0	2.0	2.0	2.0	16.1
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			322.0	576.1	202.2		202.2	329.9	334.8	357.0	349.7	1403.7	5320.9
<b>TOTAL FOR WEAPON SYSTEM C-17</b>			322.0	576.1	202.2	0.0	202.2	329.9	334.8	357.0	349.7	1403.7	5320.9

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Pylon Stub FFLZ, FF, Translating Fairing MN- \_2000

Models of Systems Affected: C-17

Center: ASC - Wright Patterson AFB, OH

PE 0401130F

CLC: C-17 Class: P  
Team MOBIL

**Description/Justification**

This retrofit project consists of seven separate projects done concurrently to save labor hours and to reduce cost and schedule risk. This project retrofits 132 C-17 aircraft (T1 and P1-P131) for multiple actions to the pylon stub, fixed fairing, translating fairing, and wing leading edge.

The first project is correction of the Flammable Fluid Leakage Zone (FFLZ) areas of the pylon stub, fixed and translating fairings, and the wing leading edge. Drainage and ventilation improvements to these FFLZ areas must be accomplished in order to resolve Crisis Management Team (CMT) and safety issues. Development and production cut-in at P103 of the FFLZ fixes was done under NC039630 using Boeing sustaining funds as a result of multiple waivers. Since retrofit of the FFLZ fixes requires removal and disassembly of the fixed and translating fairings, significant synergy and a major reduction in risk is achieved by combining retrofit projects.

The second project is the retrofit of a new titanium fixed fairing (FF) designed to resolve maintenance and dropped object issues. High temperatures and acoustic loads have led to significant problems with the existing aluminum design. Development of the fixed fairing was done under CCP-441 using Material Improvement Program (MIP) Implementation funds, and production cut-in at P132 was done under CCP-484 using Production funds from this project plan.

The third project is incorporation of the new translating fairing slider bearings. Development and production cut-in at P74 of the bearings was accomplished under CCP-357 and 359 respectively using MIP Implementation funds. The two forward slider bearings were previously retrofit, while this project completes the retrofit by correcting the aft slider bearing.

The fourth project in the retrofit program is replacement of translating fairing rivets, which have also led to multiple dropped object incidents. The new rivets were cut-in at P102 under NC044304 using Boeing sustaining funds. The original concept for retrofit was to rework existing fairings. However, a trade study revealed that reworked fairings cost 86% of the cost of new fairings. So, rivet replacement will be accomplished indirectly by purchasing new translating fairings instead of reworking existing fairings.

Three minor additional changes (FC057675 - Fixed Fairing Seal, MC059853 - Fairing Assy Lower-pylon Wing, and NC060372 - Translating Wing Stub Fairing Assy) were included to remain compatible with the current production configuration. The retrofit configuration is the current production configuration.

Pylon Stub FFLZ is scheduled to complete all 132 installs by FY18.

The C-17 budget includes funds for the procurement of Diminishing Manufacturing Sources (DMS).

Aircraft Breakdown: ACTIVE 132, RESERVE 0, ANG 0, TOTAL 132

**Development Status**

Development is complete

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
INSTALL KITS Group A (Active)	30	16.164					15	9.003			29	18.968
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	30	16.164					15	9.003			29	18.968
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS				16.136		23.140						
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
OGC		1.848		0.024				1.606				1.671
INSTALLATION OF HARDWARE												
FY-08 (Active)	30 KITS				[1]	0.228	[14]	2.249			[15]	2.182
FY-12 (Active)	15 KITS											
FY-13 (Active)	29 KITS											
FY-14 (Active)	29 KITS											
FY-15 (Active)	29 KITS											
TOTAL INSTALL						1	0.228	14	2.249		15	2.182
TOTAL COST (BP-1100)	30	18.012		16.160		23.368	15	12.858			29	22.821
(Totals may not add due to rounding)												
INSTALLATION QTY						1		14			15	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	29	19.773	29	20.919					132	84.827
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	29	19.773	29	20.919					132	84.827
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										39.276
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
OGC		1.738		1.807		0.376		0.391		9.461
INSTALLATION OF HARDWARE										
FY-08 (Active)	30 KITS								[30]	4.659
FY-12 (Active)	15 KITS	[15]	1.789						[15]	1.789
FY-13 (Active)	29 KITS			[29]	4.075				[29]	4.075
FY-14 (Active)	29 KITS					[29]	3.949		[29]	3.949
FY-15 (Active)	29 KITS							29	4.095	[29]
TOTAL INSTALL	15	1.789	29	4.075	29	3.949	29	4.095	132	18.567

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL COST (BP-1100) (Totals may not add due to rounding)	29	23.300	29	26.801		4.325		4.486	132	152.131
INSTALLATION QTY	15		29		29		29		132	

Method of Implementation: Combination

Initial Lead Time: 24 Months

Follow-On Lead Time: 24 Months

**Milestones**

	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>
Contract Date (Month/CY)					02/11	10/11	10/12	10/13	10/14
Delivery Date (Month/CY)					02/13	10/13	10/14	10/15	10/16

**Installation Schedule**

	<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																	1				3	3	4	4					3	4	4	4
Output																	1				3	3	4					4	3	4	4	

  

	<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>				<u>FY-17</u>				<u>FY-18</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input	3	4	4	4	7	7	7	8	7	7	7	8	7	7	7	8				
Output	4	3	4	4	4	7	7	7	8	7	7	7	8	7	7	7	8			

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Block 13 to 17 Retrofit MN- \_8962

Models of Systems Affected: C-17

Center: ASC

PE 0401130F

CLC: C-17 Class: P  
Team MOBIL

**Description/Justification**

This modification project incorporates Block 14, 15, 16 and 17 projects into one integrated retrofit work package into the Block 13 baseline for 152 C-17 aircraft (P1-P152) to facilitate a homogeneous configuration. This project is accomplished in conjunction with the Extended Range (ER)/On Board Inert Gas Generating System (OBIGGS II) modification when possible. Production cut-in of the Block 17 aircraft began with P153.

Block 14: Mobility 2000 (M2K), MN\_6406, provides an Aircraft Communications Addressing and Reporting System (ACARS) capability for data link communications between the aircraft and the Tanker Airlift Control Center (TACC). Production cut-in of M2K began with P98. Secure Enroute Communications Package (SECOMP-I), MN\_6411, adds three UHF SATCOM antennas, two US Army multi-bank VHF/UHF antennas, two additional SATCOM antennas and adds a cargo compartment communications panel. Production cut-in of SECOMP-I began with P106.

Block 15: Communication Open System Architecture (COSA), MN\_4660, updates the design of the communications systems to add growth capacity through an open systems architecture approach. Production cut-in of COSA began with P121.

Block 16: Weather Radar Replacement, MN\_6422, replaces the current AN/APS-133 weather radar. Production cut-in of the new weather radar began with P138. Stabilizer Strut Retrofit, MN\_9735, implements design changes to the stabilizer strut system. Production cut-in of the stabilizer strut retrofit began with P138.

Block 17: Formation Flying System (FFS), MN\_3056, replaces Station Keeping Equipment (SKE) to enable formation flight in all weather conditions and provides Global Response Force (GRF) capability (53 aircraft across the drop zone in 30 minutes). Production cut-in of FFS began with P153 with upgraded FFS production cut-in scheduled to begin with P212. Global Air Traffic Management/Required Navigational Performance – Improved (GATM/RNP-I), MN\_6414, provides the capability to maintain precise control of navigation accuracy to within one nautical mile of the aircraft’s planned position while enroute and .3 nautical miles if in the terminal area. The capability for HF Data Link (HFDL) operations as a back-up datalink to the AERO-I capability is also included in RNP-I. Production cut-in of GATM/RNP-I began with P153. Combat Lighting, MN\_8608 provides covert Night Vision Goggle (NVG) capabilities for the cockpit, rear cargo area and all external lighting systems. Production cut-in of combat lighting began with P153.

Installs performed at Boeing Support Systems – San Antonio (BSS-SA) and Warner Robins – Air Logistics Center (WR-ALC). For 50/50 purposes, the WR-ALC workload will be accounted for in the public private partnership.

Block 13 to 17 Retrofit is scheduled to complete all 152 modifications by FY16.

The C-17 budget includes funds for the procurement of Diminishing Manufacturing Sources (DMS).

Aircraft Breakdown: ACTIVE 134, RESERVE 9, ANG 9, TOTAL 152

**Development Status**

Block 14-17 development projects complete.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
INSTALL KITS Group A (Active)	647				238		95				42	
INSTALL KITS Group A (Guard)	0						12				15	
INSTALL KITS Group A (Reserve)	0						12				15	
TOTAL: INSTALL KITS	647				238		119				72	
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS				24.051		44.126						5.188
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
OTHER		33.222		0.262		1.474		1.533				1.594
Install Kits - M2K	[91]	3.711			[15]	0.704						
Install Kits - SECOMP-I	[91]	11.729			[29]	4.304						
Install Kits - COSA	[91]	118.378			[29]	43.437						
Install Kits - Wthr Radar	[94]	13.730			[33]	5.541	[10]	1.889				
Install Kits - Stab Struts	[94]	22.016			[33]	8.886	[10]	3.030				
Install Kits - Combat Ltg	[62]	21.574			[33]	12.413	[33]	12.910			[24]	9.979
Install Kits - FFS	[62]	9.679			[33]	5.569	[33]	5.792			[24]	4.477
Install Kits - GATM RNP-I	[62]	19.736			[33]	11.356	[33]	11.810			[24]	9.129
MOD OF SPARES		0.071				0.830		0.863				0.898
GFE		14.566				9.100		8.553				7.516
Mission Support		3.169				0.357		0.367				0.389

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
AOC TW4 Printer		0.871		0.906		0.965						
New Line Item												3.500
INSTALLATION OF HARDWARE												
FY-06 (Active)	159 KITS	[159] 48.216										
FY-07 (Active)	120 KITS	[120] 53.702										
FY-08 (Active)	104 KITS	[104] 48.468										
FY-09 (Active)	264 KITS		[16]	7.422	[112]	51.233	[136]	62.023				
FY-11 (Active)	238 KITS										[238]	113.240
FY-12 (Active)	95 KITS											
FY-12 (Guard)	12 KITS											
FY-12 (Reserve)	12 KITS											
FY-13 (Active)	42 KITS											
FY-13 (Guard)	15 KITS											
FY-13 (Reserve)	15 KITS											
TOTAL INSTALL	383	150.386	16	7.422	112	51.233	136	62.023			238	113.240
TOTAL COST (BP-1100)	647	422.838		32.641	238	200.295	119	108.769			72	155.910
(Totals may not add due to rounding)												
INSTALLATION QTY	383		16		112		136				238	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									1022	
INSTALL KITS Group A (Guard)									27	
INSTALL KITS Group A (Reserve)									27	
TOTAL: INSTALL KITS									1076	
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS		9.788		27.117		19.899				130.169
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
OTHER		1.658		0.319		0.331				40.393
Install Kits - M2K									[106]	4.415
Install Kits - SECOMP-I									[120]	16.033
Install Kits - COSA									[120]	161.815
Install Kits - Wthr Radar									[137]	21.160
Install Kits - Stab Struts									[137]	33.932
Install Kits - Combat Ltg									[152]	56.876
Install Kits - FFS									[152]	25.517

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
Install Kits - GATM RNP-I									[152]	52.030
MOD OF SPARES		0.934								3.596
GFE										39.735
Mission Support		0.422		0.469		0.532				5.705
AOC TW4 Printer										2.742
New Line Item		1.500								5.000
<b>INSTALLATION OF HARDWARE</b>										
FY-06 (Active)	159 KITS								[159]	48.216
FY-07 (Active)	120 KITS								[120]	53.702
FY-08 (Active)	104 KITS								[104]	48.468
FY-09 (Active)	264 KITS								[264]	120.678
FY-11 (Active)	238 KITS								[238]	113.240
FY-12 (Active)	95 KITS	[95]	58.174						[95]	58.174
FY-12 (Guard)	12 KITS	[12]	7.348						[12]	7.348
FY-12 (Reserve)	12 KITS	[12]	7.348						[12]	7.348
FY-13 (Active)	42 KITS			[42]	27.736				[42]	27.736
FY-13 (Guard)	15 KITS			[15]	9.906				[15]	9.906
FY-13 (Reserve)	15 KITS			[15]	9.906				[15]	9.906
<b>TOTAL INSTALL</b>	<b>119</b>	<b>72.870</b>	<b>72</b>	<b>47.547</b>					<b>1076</b>	<b>504.721</b>
<b>TOTAL COST (BP-1100)</b> (Totals may not add due to rounding)		<b>87.172</b>		<b>75.452</b>		<b>20.762</b>			<b>1076</b>	<b>1103.839</b>
<b>INSTALLATION QTY</b>	<b>119</b>		<b>72</b>						<b>1076</b>	

Method of Implementation: Combination

Initial Lead Time: 12 Months

Follow-On Lead Time: 24 Months

**Milestones**

	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>
Contract Date (Month/CY)		01/06	01/07	01/08	01/09	05/11	05/11	10/11	10/12	10/13	10/14
Delivery Date (Month/CY)		01/07	01/08	01/09	01/10	05/13	05/13	10/13	10/14	10/15	10/16

**Installation Schedule**

Quarter	<u>FY-05</u>				<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input									40	40	40	39	30	30	30	30	26	26	26	26	0	0	0	16	28	28	28	28	34	34	34	34
Output										40	40	40	39	30	30	30	30	26	26	26	26	0	0	0	16	28	28	28	28	34	34	34
Quarter	<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>				<u>FY-17</u>				<u>FY-18</u>				<u>FY-19</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input					60	60	60	58	30	30	30	29	18	18	18	18																
Output	34					60	60	60	58	30	30	30	29	18	18	18	18															

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. OBIGGS II MN- 6402

CLC: C-17 Class: P

Models of Systems Affected: C-17

Center: ASC - Wright Patterson AFB, OH

PE 0401130F

Team MOBIL

**Description/Justification**

This modification project adds the On Board Gas Generating System (OBIGGS II) to 67 C-17 aircraft (P71-P137) already equipped with the Extended Range (ER) fuel system. An additional 70 C-17 aircraft (P1-P70) will receive OBIGGS II in conjunction with the ER modification (MN\_6412).

Production cut-in of the OBIGGS II system began with P138.

OBIGGS II is a new system that quickly and efficiently inerts gases in fuel tanks, preventing them from exploding if hit by enemy fire. Pilots activate the system with the push of a button, which pumps nitrogen-enriched air into the fuel tanks. The tanks are inerted in less than one hour—much less than the four to eight hours previously needed. In addition, the new system cuts the aircraft's weight by almost 500 pounds. The retrofit effort includes structural improvements to the wing and fuselage and changes to subsystems and software. This redesign significantly increases system effectiveness, utility and maintainability and reduces Life Cycle Costs (LCC).

Installs are performed at Boeing Support Systems – San Antonio (BSS-SA).

OBIGGS II is scheduled to complete all 67 installs by FY23.

The C-17 budget includes funds for the procurement of Diminishing Manufacturing Sources (DMS).

Aircraft Breakdown: ACTIVE 58, RESERVE 0, ANG 9, TOTAL 67

**Development Status**

Complete

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	10	16.353					2	6.135			5	15.236
INSTALL KITS Group A (Guard)	0											
INSTALL KITS Group A (Reserve)	0											
TOTAL: INSTALL KITS	10	16.353					2	6.135			5	15.236
KITS NONRECUR Group A (Active)	[0]	16.888				0.180		0.187				0.195
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR	[0]	16.888				0.180		0.187				0.195

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS						20.700						
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
OTHER												
INSTALLATION OF HARDWARE												
FY-06 (Active)	1 KITS	[1] 3.628										
FY-07 (Active)	3 KITS	[3] 8.221										
FY-08 (Active)	2 KITS	[2] 2.495										
FY-09 (Active)	4 KITS				[2]	5.641	[2]	5.659				
FY-12 (Active)	2 KITS											
FY-13 (Active)	5 KITS											
FY-14 (Active)	8 KITS											
FY-15 (Active)	8 KITS											
FY-16 (Active)	8 KITS											
FY-17 (Active)	8 KITS											
FY-18 (Active)	8 KITS											
FY-19 (Active)	1 KITS											
FY-19 (Guard)	7 KITS											
FY-20 (Guard)	2 KITS											
TOTAL INSTALL	6	14.344			2	5.641	2	5.659				
TOTAL COST (BP-1100) (Totals may not add due to rounding)	10	47.585				26.521	2	11.981			5	15.431
INSTALLATION QTY	6				2		2					

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	8	24.670	8	24.788	8	25.651	17	58.028	58	170.861
INSTALL KITS Group A (Guard)							9	32.737	9	32.737
INSTALL KITS Group A (Reserve)									0	
TOTAL: INSTALL KITS	8	24.670	8	24.788	8	25.651	26	90.765	67	203.598
KITS NONRECUR Group A (Active)		0.202		0.210		0.219		1.798	[0]	19.879
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR		0.202		0.210		0.219		1.798	[0]	19.879
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										20.700
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
OTHER										
INSTALLATION OF HARDWARE										
FY-06 (Active)			1 KITS						[1]	3.628
FY-07 (Active)			3 KITS						[3]	8.221
FY-08 (Active)			2 KITS						[2]	2.495
FY-09 (Active)			4 KITS						[4]	11.300
FY-12 (Active)			2 KITS	[2]	5.945				[2]	5.945
FY-13 (Active)			5 KITS	[5]	14.854				[5]	14.854



UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Extended Range Retrofit/OBIGGS II MN- 6412

CLC: C-17 Class: P

Models of Systems Affected: C-17

Center: ASC - Wright Patterson AFB, OH

PE 0401130F

Team MOBIL

**Description/Justification**

This modification project adds the Extended Range (ER) fuel containment system and On Board Gas Generating System (OBIGGS II) to 70 C-17 aircraft (P1-P70). An additional 67 C-17 aircraft (P71-P137) already equipped with ER will receive OBIGGS II with the OBIGGS II modification (MN-6402).

Production cut-in of the ER system began with P71.

ER adds a center wing fuel tank, increases the fuel capacity by 9,500 gallons and adds 1,800 pounds to the gross weight of the aircraft.

OBIGGS II is a new system that quickly and efficiently inerts gases in fuel tanks, preventing them from exploding if hit by enemy fire. Pilots activate the system with the push of a button, which pumps nitrogen-enriched air into the fuel tanks. The tanks are inerted in less than one hour—much less than the four to eight hours previously needed. In addition, the new system cuts the aircraft's weight by almost 500 pounds. The retrofit effort includes structural improvements to the wing and fuselage and changes to subsystems and software. This redesign significantly increases system effectiveness, utility and maintainability and reduces Life Cycle Costs (LCC).

Installs performed at Warner Robbins Air Logistics Center (WR-ALC) to satisfy 50/50 requirements.

ER is scheduled to complete all 70 installs by FY24.

The C-17 budget includes funds for the procurement of Diminishing Manufacturing Sources (DMS).

Aircraft Breakdown: ACTIVE 70, RESERVE 0, ANG 0, TOTAL 70

**Development Status**

Development complete.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	8	51.356					2	9.752			2	10.142
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	8	51.356					2	9.752			2	10.142
KITS NONRECUR Group A (Active)	[0]	42.135				0.139		0.144				0.150
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL: KITS NONRECUR	[0]	42.135				0.139		0.144				0.150
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS						15.800						
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
OTHER												
INSTALLATION OF HARDWARE												
FY-06 (Active)	1 KITS	[1] 6.770										
FY-07 (Active)	2 KITS	[2] 15.076										
FY-08 (Active)	1 KITS	[1] 10.325										
FY-09 (Active)	4 KITS				[2]	18.646	[2]	18.078				
FY-12 (Active)	2 KITS											
FY-13 (Active)	2 KITS											
FY-14 (Active)	7 KITS											
FY-15 (Active)	8 KITS											
FY-16 (Active)	8 KITS											
FY-17 (Active)	8 KITS											
FY-18 (Active)	8 KITS											
FY-19 (Active)	8 KITS											
FY-20 (Active)	8 KITS											
FY-21 (Active)	3 KITS											
TOTAL INSTALL	4	32.171			2	18.646	2	18.078				
TOTAL COST (BP-1100)	8	125.662				34.585	2	27.974			2	10.292
(Totals may not add due to rounding)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
INSTALLATION QTY	4				2		2					

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	7	34.589	8	39.661	8	41.248	35	203.967	70	390.715
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	7	34.589	8	39.661	8	41.248	35	203.967	70	390.715
KITS NONRECUR Group A (Active)		0.156		0.162		0.169		1.615	[0]	44.670
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR		0.156		0.162		0.169		1.615	[0]	44.670
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS				11.175						26.975
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
OTHER										
INSTALLATION OF HARDWARE										
FY-06 (Active)			1 KITS						[1]	6.770
FY-07 (Active)			2 KITS						[2]	15.076
FY-08 (Active)			1 KITS						[1]	10.325
FY-09 (Active)			4 KITS						[4]	36.724
FY-12 (Active)			2 KITS	[2]	18.644				[2]	18.644
FY-13 (Active)			2 KITS	[2]	18.702				[2]	18.702

**Continued**

		<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-14 (Active)	7 KITS					[7]	64.247			[7]	64.247
FY-15 (Active)	8 KITS							8	71.483	[8]	71.483
FY-16 (Active)	8 KITS							8	70.817	[8]	70.817
FY-17 (Active)	8 KITS							8	70.992	[8]	70.992
FY-18 (Active)	8 KITS							8	71.692	[8]	71.692
FY-19 (Active)	8 KITS							8	72.774	[8]	72.774
FY-20 (Active)	8 KITS							8	74.095	[8]	74.095
FY-21 (Active)	3 KITS							3	28.520	[3]	28.520
TOTAL INSTALL		2	18.644	2	18.702	7	64.247	51	460.373	70	630.861
TOTAL COST (BP-1100)		7	53.389	8	69.700	8	105.664	35	665.955	70	1093.221
(Totals may not add due to rounding)											
INSTALLATION QTY		2		2		7		51		70	

Method of Implementation: Combination

Initial Lead Time: 12 Months

Follow-On Lead Time: 24 Months

**Milestones**

	<u>FY-04</u>	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>	<u>FY-18</u>
Contract Date (Month/CY)		02/05	01/06	01/07	01/08	01/09		04/11	10/11	10/12	10/13	10/14	10/15	10/16	10/17
Delivery Date (Month/CY)		02/06	01/07	01/08	01/09	01/10		04/12	10/13	10/14	10/15	10/16	10/17	10/18	10/19

**Installation Schedule**

	<u>FY-04</u>				<u>FY-05</u>				<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Input																	1				1	1			1								1			
Output													1								1	1			1								1			
	<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>				<u>FY-17</u>				<u>FY-18</u>							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Input		1		1							1		1		1		1				1				2	2	2	1	2	2	2	2	2	2	2	2
Output	1		1					1				1	1		1		1		1		1				2	2	2	1	2	2	2	2	2	2	2	2

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM) MN- 8629

CLC: C-17 Class: P

Models of Systems Affected: C-17

Center: ASC - Wright Patterson AFB, OH

PE 0401134F

Team MOBIL

**Description/Justification**

The Large Aircraft Infrared Countermeasures (LAIRCM) system provides a significantly improved defensive capability for the C-17 to counter the proliferating infrared (IR) Man-Portable Air Defense Systems (MANPADS) missile threats. This system is fully automatic following power-up and consists of Group A aircraft modification kits and Group B equipment. The LAIRCM system [AN/AQQ-24(V)] consists of 6 Missile Warning Sensors (MWS), 1 (lite configuration) or 3 (full configuration) Guardian Laser Transmitter Assemblies (GLTA)/Small Laser Transmitter Assemblies (SLTA), a colorless eye-safe multibeam laser, Control Indicator Unit (CIU), 2 repeaters and a system processor to detect, track, and counter incoming IR missiles.

Enhancements and retrofits to the current configuration are planned for purchase and installation in FY08 and beyond. These enhancements include retrofits of the SLTA to a smaller, lighter GLTA. In addition, the current AAR-54 sensor will be replaced by a more effective infrared (IR) Next Generation Missile Warning Sensor (NexGen MWS). The processor and CIU are also slated to be replaced with updated versions that address Diminishing Manufacturing Sources (DMS) and reliability efforts.

The "Change Orders" line include DMS costs for the identification, review, and monitoring of items with high DMS risk potential, classification of identified items according to criticality, identification of alternatives for items having high DMS risks, and non-recurring engineering (NRE)/replacement cost for DMS components. Additionally, "Change Orders" include NRE/replacement costs for equipment updates to increase reliability, availability, and maintainability of LAIRCM Group B components as identified during the fiscal year.

NOTES:

- FY07 GWOT procured 10 A & B kits and installs with Aircraft Production funds not documented on this P3A.
- FY08 GWOT procured 15 A kits and installs with Aircraft Production funds not documented on this P3A.
- FY09 procured 2 A & B kits and installs. It also funded 15 SLTA to GLTA retrofit kits and 22 installs and 1 NexGen retrofit kit and install.
- FY09 GWOT procured 17 A & B kits and installs with Aircraft Production funds not documented on this P3A.
- FY09 supplemental "Bridge" procured 4 A & B kits and installs (lite configuration).
- FY10 procures 4 A & B kits and 6 installs; 27 SLTA to GLTA retrofit kits and installs and 10 NexGen retrofit kits.
- FY10 OCO procures 14 A & B kits and installs and 4 SLTA to GLTA retrofit kits and installs.
- FY11 procures 4 SLTA to GLTA retrofit kits and installs and 10 NexGen retrofit kits and installs.
- FY11 OCO procures 15 A & B kits and installs and 10 NexGen retrofit kits and installs.
- FY12 procures 4 SLTA to GLTA retrofit kits and installs and 3 NexGen retrofit kits and 10 installs.

LAIRCM is a "buy-to-budget" program.

Aircraft Production procurement (not documented on this P3A): 42 Group A, 27 Group B.

Aircraft Modification procurement: 177 Group A, 184 Group B.

This program has associated Research, Development, Test & Evaluation (RDT&E) funding in PE 0401130F. Two C-17s were modified with LAIRCM (Group A & B) using RDT&E funds.

Aircraft Group A Breakdown: 161 Active (includes 2 RDT&E C-17s), 9 Reserve, and 9 ANG = 179 Total

Fleet management plan currently modifies 8 C-17s (Altus) with Group A and not Group B.

The Strategic Airlift Capability (SAC) C-17 will not receive LAIRCM.

FY 2009 funding totals include \$14M of appropriated supplemental "Bridge" funding.

FY 2010 funding totals include \$120.725M for Overseas Contingency Operations.

FY 2011 funding totals include \$224.450M for Overseas Contingency Operations.

**GROUP A Procurement & Install(FY of funding)**

Kit Procurement	Prior	FY10	FY11	FY12	FY13	FY14	FY15	FY16	To Comp	Total
Active	118	14	15	0	7	5	0	0	0	159
Reserve	9	0	0	0	0	0	0	0	0	9
ANG	5	4	0	0	0	0	0	0	0	9
										177

Fact Sheet: C-17 MN 8629 LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)

(Continued)

Installation schedule										
Active	93	13	0	12	3	29	8	1	0	159
Reserve	7	2	0	0	0	0	0	0	0	9
ANG	1	0	0	6	2	0	0	0	0	9
										177

GROUP B Procurement & Install (FY of funding, Includes Spares)

Kit Procurement										
	Prior	FY10	FY11	FY12	FY13	FY14	FY15	FY16	To Comp	Total
Active	117	22	15	0	7	5	0	0	0	166
Reserve	9	0	0	0	0	0	0	0	0	9
ANG	5	4	0	0	0	0	0	0	0	9
										184

Installation schedule										
Active	100	18	10	26	0	7	5	0	0	166
Reserve	5	4	0	0	0	0	0	0	0	9
ANG	1	4	1	3	0	0	0	0	0	9
										184

C-17 planned retrofit buys/installs

	Prior	FY10	FY11	FY12	FY13	FY14	FY15	FY16	To Comp	Total
SLTA to GLTA retrofit kits	35	31	4	4	5	0	0	0	0	79
SLTA to GLTA kit installs	35	31	4	4	5	0	0	0	0	79
AAR-54 to NexGen retrofit kits	1	10	20	3	9	18	40	36	34	171
AAR-54 to NexGen kit installs	1	0	10	20	3	9	18	40	70	171
GLTA Lite to Full buys	0	0	42	0	0	0	0	0	0	42
GLTA Lite to Full installs	0	0	0	42	0	0	0	0	0	42

Retrofit install schedule is based on lead times for kits. The actual install schedules will be dependent on release of the aircraft from the field for install.

In addition to Group B shipsets, the "EQUIPMENT Group B" line cost (not quantity) includes the group B equipment procured for SLTA to GLTA retrofits, AAR-54 to NexGen retrofit and lite GLTA to full GLTA retrofit. "RETROFIT KITS" and "RETROFIT INSTALLATION" reflect GLTA and NexGen retrofit kits and installs.

"INSTALLATION OF HARDWARE" and the "Installation Schedule" section are aligned with Group A installs.

"Aircraft Breakdown" represents Group B equipment procured with Aircraft Modification funds.

Aircraft Breakdown: ACTIVE 166, RESERVE 9, ANG 9, TOTAL 184

**Development Status**

Development complete.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	118	119.038	14	12.274	15	13.151					7	6.260
INSTALL KITS Group A (Guard)	5	4.175	4	3.050								
INSTALL KITS Group A (Reserve)	9	6.669										
TOTAL: INSTALL KITS	132	129.882	18	15.324	15	13.151					7	6.260
KITS NONRECUR Group A (Active)	[0]	18.518		2.550		2.410		0.770				0.550
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR	[0]	18.518		2.550		2.410		0.770				0.550
EQUIPMENT Group B (Active)	[117]	317.516	[22]	141.382	[15]	180.417		15.071			[7]	68.938
EQUIPMENT Group B (Guard)	[5]	8.284	[4]	16.500								
EQUIPMENT Group B (Reserve)	[9]	14.912										
TOTAL: EQUIPMENT	[131]	340.712	[26]	157.882	[15]	180.417		15.071			[7]	68.938
EQUIP NONREC Group B (Active)	[0]											
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC	[0]											
CHANGE ORDERS		60.257		10.333		17.706		1.340				4.188
DATA		1.496										
SIM/TRAINER		0.392		0.057		0.059		0.060				0.061
SUPPORT- EQUIP		16.826		0.026		0.027		0.027				0.473
INITIAL SPARES		71.555		36.000		30.047		0.263				18.233
ICS		25.692		7.019		6.103		7.068				
ENG SUPPORT		13.776		3.323		5.196		1.298				4.645
CONTRACTOR SUPPORT		5.219		0.945		0.892		0.893				0.861
DEPOT STAND-UP		7.953										3.411
TRAINING		0.279		0.057		0.059		0.060				
RETROFIT KITS	[36]	4.047	[41]	4.450	[24]	4.364	[7]	0.964			[14]	3.173
PROGRAM MNGMT		3.565		3.567		1.873		1.653				1.685
OGC		8.740										
RETROFIT INSTALLATION	[36]	1.918	[31]	2.126	[14]	1.705	[24]	3.205			[8]	0.725

**Projected Financial Plan Continued**

		PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
		QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
INSTALLATION OF HARDWARE													
FY-03 (Active)	10 KITS	[10]	13.114										
FY-04 (Active)	18 KITS	[18]	16.578										
FY-05 (Active)	28 KITS	[28]	24.556										
FY-05 (Guard)	1 KITS	[1]	0.877										
FY-05 (Reserve)	1 KITS	[1]	0.877										
FY-06 (Active)	20 KITS	[20]	16.300										
FY-07 (Active)	30 KITS	[17]	24.090	[13]									
FY-07 (Reserve)	8 KITS	[6]	6.424	[2]									
FY-08 (Active)	10 KITS		8.030					[10]					
FY-09 (Active)	2 KITS				2.197			[2]					
FY-09 (Guard)	4 KITS		3.340					[4]					
FY-10 (Active)	14 KITS				17.686							[3]	
FY-10 (Guard)	4 KITS				4.394			[2]				[2]	
FY-11 (Active)	15 KITS						18.950						
FY-13 (Active)	7 KITS												
FY-14 (Active)	5 KITS												
TOTAL INSTALL		101	114.186	15	24.278		18.950	18				5	
TOTAL COST (BP-1100)		132	825.013	18	267.937	15	282.959		32.672			7	113.203
(Totals may not add due to rounding)													
INSTALLATION QTY		101		15				18				5	

## Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	5	4.561							159	155.284
INSTALL KITS Group A (Guard)									9	7.225
INSTALL KITS Group A (Reserve)									9	6.669
TOTAL: INSTALL KITS	5	4.561							177	169.178
KITS NONRECUR Group A (Active)		0.500		0.600		0.600			[0]	26.498
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR		0.500		0.600		0.600			[0]	26.498
EQUIPMENT Group B (Active)	[5]	49.443		57.409		70.634		29.260	[166]	930.070
EQUIPMENT Group B (Guard)									[9]	24.784
EQUIPMENT Group B (Reserve)									[9]	14.912
TOTAL: EQUIPMENT	[5]	49.443		57.409		70.634		29.260	[184]	969.766
EQUIP NONREC Group B (Active)									[0]	
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[0]	
CHANGE ORDERS		4.496		8.219		3.792		2.733		113.064
DATA										1.496
SIM/TRAINER										0.629
SUPPORT- EQUIP		0.028		0.029						17.436
INITIAL SPARES		31.414		9.440		0.765		15.296		213.013
ICS										45.882
ENG SUPPORT		4.678		4.763		4.856				42.535
CONTRACTOR SUPPORT		0.902		0.940		0.120				10.772
DEPOT STAND-UP				5.915						17.279
TRAINING										0.455
RETROFIT KITS	[18]	5.509	[40]	12.489	[36]	11.802	34	12.261	[250]	59.059
PROGRAM MNGMT		1.452		1.481		1.511		1.541		18.328

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
OGC										8.740
RETROFIT INSTALLATION	[9]	5.400	[18]	11.018	[40]	25.709	70	51.894	[250]	103.700
INSTALLATION OF HARDWARE										
FY-03 (Active) 10 KITS									[10]	13.114
FY-04 (Active) 18 KITS									[18]	16.578
FY-05 (Active) 28 KITS									[28]	24.556
FY-05 (Guard) 1 KITS									[1]	0.877
FY-05 (Reserve) 1 KITS									[1]	0.877
FY-06 (Active) 20 KITS									[20]	16.300
FY-07 (Active) 30 KITS									[30]	24.090
FY-07 (Reserve) 8 KITS									[8]	6.424
FY-08 (Active) 10 KITS									[10]	8.030
FY-09 (Active) 2 KITS									[2]	2.197
FY-09 (Guard) 4 KITS									[4]	3.340
FY-10 (Active) 14 KITS	[11]								[14]	17.686
FY-10 (Guard) 4 KITS									[4]	4.394
FY-11 (Active) 15 KITS	[15]								[15]	18.950
FY-13 (Active) 7 KITS	[3]	10.386	[4]						[7]	10.386
FY-14 (Active) 5 KITS			[4]	6.840	[1]				[5]	6.840
<b>TOTAL INSTALL</b>	<b>29</b>	<b>10.386</b>	<b>8</b>	<b>6.840</b>	<b>1</b>				<b>177</b>	<b>174.640</b>
<b>TOTAL COST (BP-1100)</b> (Totals may not add due to rounding)	<b>5</b>	<b>118.769</b>		<b>119.143</b>		<b>119.789</b>		<b>112.985</b>	<b>177</b>	<b>1992.470</b>
<b>INSTALLATION QTY</b>	<b>29</b>		<b>8</b>		<b>1</b>				<b>177</b>	

Method of Implementation: Combination

Initial Lead Time: 8 Months Months

Follow-On Lead Time: 12 Months Months

**Milestones**

	<u>FY-02</u>	<u>FY-03</u>	<u>FY-04</u>	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>
Contract Date (Month/CY)		10/02	12/03	01/05	01/06	01/07	01/08	01/09	01/10	01/11	01/12	01/13	01/14	01/15
Delivery Date (Month/CY)		06/03	12/04	01/06	01/07	01/08	01/09	01/10	01/11	01/12	01/13	01/14	01/15	01/16

**Installation Schedule**

	<u>FY-02</u>				<u>FY-03</u>				<u>FY-04</u>				<u>FY-05</u>				<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>							
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																				
Output																																				
	<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>							
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input	5	6	4																																	
Output	5	6	4																																	

UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: C-21</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$0.560	\$0.339	\$0.328	\$	\$0.328	\$0.199	\$0.203	\$0.207	\$0.207

This line item funds low-cost modifications and service bulletins for the C-21 aircraft, commercial equivalent to the Learjet 35. The C-21 aircraft is a twin-turbofan engine aircraft used for cargo and passenger airlift over medium ranges. Service bulletins are necessary for continuing FAA certification while improving flight safety, reliability, and maintainability.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	99999S	SERVICE BULLETINS	0.1	0.1	0.1		0.1	0.1	0.2	0.1	0.1		1.7
	99999X	LOW COST MODIFICATIONS	0.4	0.2	0.2		0.2	0.1	0.0	0.1	0.1		2.1
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			0.6	0.3	0.3		0.3	0.2	0.2	0.2	0.2		3.9
<b>TOTAL FOR WEAPON SYSTEM C-21</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: C-32</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$1.739	\$12.113	\$12.157	\$	\$12.157	\$2.727	\$1.780	\$1.813	\$1.845

This line item funds modifications and Service Bulletins for the C-32 aircraft, commercial equivalent Boeing 757. The C-32 is a long-range jet transport designed to transport high ranking government officials. The modifications will enhance operational capability while improving flight safety, reliability, and maintainability. The primary modification for FY12 is the communications modification.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	0707	COMM MOD	0.0	10.4	10.4		10.4	1.0					67.1
	99999S	SERVICE BULLETINS	0.0	0.2	0.0		0.0	0.0	0.0	0.0	0.0		0.4
	99999SG	SERVICE BULLETINS - ANG	0.9	0.7	0.9		0.9	0.9	0.9	0.9	0.9		7.9
	99999X	LOW COST MODIFICATIONS	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.1
	99999XG	LOW COST MODS - ANG	0.8	0.8	0.8		0.8	0.8	0.8	0.9	0.9		7.4
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			1.7	12.1	12.2		12.2	2.7	1.8	1.8	1.8		82.8
<b>TOTAL FOR WEAPON SYSTEM C-32</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. COMM MOD MN- 0707

Models of Systems Affected: C-32A

Center: OC-ALC - Tinker AFB Okla City, OK

PE 0401845F

CLC: C-32 Class: P  
Team Unassigned

**Description/Justification**

Baseline SLC3S-A capabilities include secure and non-secure voice, data, and video connectivity into the Defense Information System Network/Global Information Grid, Defense Switched Network, Defense Red Switch Network, Voice Over Secure Internet Protocol Networks, National Security Council's Crisis Management System, and commercial networks up to the Top Secret/Sensitive Compartmentalized Information security classification level. These capabilities are used daily by the Nation's Senior Leaders to carry out their duties and responsibilities. National Senior Leaders require 100% secure voice and data capability from general planning and strategy discussions to directing command decisions. This modification will provide modifications and the necessary equipment to enable non-secure and secure voice/data/video connectivity for our national leadership.

This program includes the procurement of the SLC3S-A Communications Program (SCP), integration of the SCP on the aircraft, procurement and installation of supporting communications infrastructure, and removal of obsolete communications equipment. The installation cost for the kits is included in the Install Kit cost.

Aircraft Breakdown: ACTIVE 2, RESERVE 0, ANG 0, TOTAL 2

**Development Status**

This program has associated Research, Development, Test and Evaluation funding in PE 0401845F.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)		0			1	7.300	1	7.510				
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS		0			1	7.300	1	7.510				
KITS NONRECUR Group A (Active)		[0]				1.195		1.163				
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR		[0]				1.195		1.163				
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)		[0]	45.308									
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL: EQUIP NONREC	[0]	45.308										
CHANGE ORDERS												
DATA		0.000		0.000		1.080		1.040				
SIM/TRAINER												
SUPPORT- EQUIP						0.836		0.719				0.977
INSTALL KITS												
INSTALLATION OF HARDWARE												
FY-11 (Active)	1 KITS						[1]					
FY-12 (Active)	1 KITS										[1]	
TOTAL INSTALL							1				1	
TOTAL COST (BP-1100)	0	45.308		0.000	1	10.411	1	10.432				0.977
(Totals may not add due to rounding)												
INSTALLATION QTY							1				1	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									2	14.810
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									2	14.810
KITS NONRECUR Group A (Active)									[0]	2.358
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									[0]	2.358
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)									[0]	45.308
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[0]	45.308
CHANGE ORDERS										
DATA										2.120
SIM/TRAINER										
SUPPORT- EQUIP										2.532
INSTALL KITS										
INSTALLATION OF HARDWARE										
FY-11 (Active)	1 KITS								[1]	
FY-12 (Active)	1 KITS								[1]	
TOTAL INSTALL									2	
TOTAL COST (BP-1100)									2	67.128
(Totals may not add due to rounding)										
INSTALLATION QTY									2	

Method of Implementation: Contractor Facility

Initial Lead Time: 9 Months

Follow-On Lead Time: 9 Months

**Milestones**

	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>
Contract Date (Month/CY)					05/11	05/12
Delivery Date (Month/CY)					02/12	02/13

**Installation Schedule**

	<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>							
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Input																																				
Output																																				

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UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: C-37</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$0.435	\$12.162	\$21.986	\$	\$21.986	\$13.468	\$18.293	\$18.655	\$10.203

This line item funds modifications to the C-37 aircraft, commercial equivalent Gulfstream 5. The C-37 is a long-range jet transport designed to transport high ranking government officials. The primary modification for FY12 is the communications modification. Other efforts include service bulletins/low cost modifications that will improve flight safety, reliability, and maintainability.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	0707	COMM MOD		11.7	21.5		21.5	13.0	17.8	18.2	9.7		93.1
	99999S	SERVICE BULLETINS	0.3	0.3	0.3		0.3	0.3	0.3	0.3	0.4		2.8
	99999X	LOW COST MODIFICATIONS	0.1	0.1	0.1		0.1	0.2	0.2	0.2	0.1		1.2
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			0.4	12.2	22.0		22.0	13.5	18.3	18.7	10.2		97.0
<b>TOTAL FOR WEAPON SYSTEM C-37</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 51	PAGE NO. 1	
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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. COMM MOD MN- 0707

Models of Systems Affected: C-37

Center: OC-ALC - Tinker AFB Okla City, OK

PE 0401845F

CLC: C-37 Class: P  
Team Unassigned

**Description/Justification**

Baseline SLC3S-A capabilities include secure and non-secure voice, data, and video connectivity into the Defense Information System Network/Global Information Grid, Defense Switched Network, Defense Red Switch Network, Voice Over Secure Internet Protocol Networks, National Security Council's Crisis Management System, and commercial networks up to the Top Secret/Sensitive Compartmentalized Information security classification level. These capabilities are used daily by the Nation's Senior Leaders to carry out their duties and responsibilities. National Senior Leaders require 100% secure voice and data capability from general planning and strategy discussions to directing command decisions. This modification will provide modifications and the necessary equipment to enable non-secure and secure voice/data/video connectivity for our national leadership.

This program includes the procurement of the SLC3S-A Communications Program (SCP), integration of the SCP on the aircraft, procurement and installation of supporting communications infrastructure, and removal of obsolete communications equipment. The installation cost for the kits is included in the Install Kit cost.

Aircraft Breakdown: ACTIVE 9, RESERVE 0, ANG 0, TOTAL 9

**Development Status**

This program has associated Research, Development, Test and Evaluation funding in PE 0401845F.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	0				1	7.638	2	15.500			1	7.905
INSTALL KITS Group A (Guard)	0											
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	0				1	7.638	2	15.500			1	7.905
KITS NONRECUR Group A (Active)	[0]	0.977				1.523		1.500				1.298
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR	[0]	0.977				1.523		1.500				1.298
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA						0.910		2.451				2.473
SIM/TRAINER												
SUPPORT- EQUIP						1.660		2.098				1.347
INSTALL KITS												
INSTALLATION OF HARDWARE												
FY-11 (Active)	1 KITS							[1]				
FY-12 (Active)	2 KITS							[1]			[1]	
FY-13 (Active)	1 KITS										[1]	
FY-14 (Active)	2 KITS											
FY-15 (Active)	2 KITS											
FY-16 (Active)	1 KITS											
TOTAL INSTALL								2			2	
TOTAL COST (BP-1100)		0	0.977			1	11.731	2	21.549		1	13.023
(Totals may not add due to rounding)												
INSTALLATION QTY								2			2	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	2	16.120	2	16.200	1	8.262			9	71.625
INSTALL KITS Group A (Guard)									0	
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	2	16.120	2	16.200	1	8.262			9	71.625
KITS NONRECUR Group A (Active)		0.700		0.850		0.981			[0]	7.829
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR		0.700		0.850		0.981			[0]	7.829
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA		0.521		0.644						6.999
SIM/TRAINER										
SUPPORT- EQUIP		0.500		0.500		0.500				6.605
INSTALL KITS										
INSTALLATION OF HARDWARE										
FY-11 (Active)			1 KITS						[1]	
FY-12 (Active)			2 KITS						[2]	
FY-13 (Active)			1 KITS						[1]	
FY-14 (Active)			2 KITS	[1]					[2]	
FY-15 (Active)			2 KITS	[1]		[1]			[2]	
FY-16 (Active)			1 KITS			[1]			[1]	

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL INSTALL	1		2		2				9	
TOTAL COST (BP-1100) (Totals may not add due to rounding)	2	17.841	2	18.194	1	9.743			9	93.058
INSTALLATION QTY	1		2		2				9	

Method of Implementation: Contractor Facility

Initial Lead Time: 9 Months

Follow-On Lead Time: 9 Months

**Milestones**

	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>
Contract Date (Month/CY)				03/11	03/12	03/13	03/14	03/15	03/16	
Delivery Date (Month/CY)				12/11	12/12	12/13	12/14	12/15	12/16	

**Installation Schedule**

	<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																
Output																					1	1							1	1		

  

	<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>				<u>FY-17</u>				<u>FY-18</u>				<u>FY-19</u>				<u>FY-20</u>				<u>FY-21</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input	1				1	1			1	1																						
Output	1					1	1		1	1																						

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications					P-1 LINE ITEM NOMENCLATURE: C-130 AMP				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$	\$	\$235.635	\$0.000	\$235.635	\$248.722	\$372.784	\$557.192	\$699.483

Totals include funding for PRCP Program Number 298, C-130 AMP

The program funding includes reductions for overhead reduction efficiencies that are not intended to impact program content. The efficiencies reductions total \$1.794M in FY12.

This program has associated Research Development Test & Evaluation (RDT&E) funding in PE 0401115F.

Prior Years (FY08 - FY09) \$146.354M, To Complete (FY17 - FY20) \$2,198.236, and Grand Total \$4,628.935

C-130 AMP FUNDING IN FY12 AND OUT HAS MOVED TO THIS NEW WEAPONS SYSTEM CODE (C130 AMP) FROM THE C-130 MODS WSC. THE KIT BUY AND INSTALL SCHEDULE SHOWN HERE IS FOR THE ENTIRE PROGRAM, FUNDED FROM BOTH THIS PDOC AND THE PREVIOUS ONE.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	8517	C-130 AVIONICS MODERNIZATION PROGRAM (AMP)			235.6		235.6	248.7	372.8	557.2	699.5	2198.2	4312.1
<b>TOTAL FOR CLASS P</b>					235.6		235.6	248.7	372.8	557.2	699.5	2198.2	4312.1
<b>TOTAL FOR WEAPON SYSTEM C-130 AMP</b>			0.0	0.0	235.6	0.0	235.6	248.7	372.8	557.2	699.5	2198.2	4312.1

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 52	PAGE NO. 1	
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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. C-130 AVIONICS MODERNIZATION PROGRAM (AMP) MN- 8517

CLC: C-130 AMP Class: P

Models of Systems Affected: C-130H

Center: ASC - Wright Patterson AFB, OH

PE 0401115F

Team MOBIL

**Description/Justification**

In FY12 and out the funding for C-130 AMP is in this new Weapons System Code (WSC) C-130 AMP. Previous years funding is depicted in C-130 AMP under WSC C-130 Mods.

This avionics modernization supports Air Mobility Command's (AMC), Air Force Reserve Command's (AFRC), and Air National Guard's (ANG) intra-theater airlift mission requirements. The 4 Jun 07 and 19 Jun 10 Acquisition Decision Memorandums (ADMs) validated 221 C-130 aircraft (H2, H2.5, H3) in the C-130 AMP baseline to include 3 RDT&E funded aircraft modifications.

AMP's new avionics architecture takes advantage of commercially available Communication/Navigation/ Surveillance & Air Traffic Management (CNS/ATM) technologies. With its embedded Navigation/Safety and CNS/ATM capabilities, an AMP-equipped C-130 will be able to safely operate worldwide in tomorrow's national/international airspace. This improved capability comes from a comprehensive avionics and cockpit modernization which replaces aging, unreliable equipment and adds combat capability enhancements. AMP also meets AF's Night Vision Imaging System (NVIS) requirements, improves the C-130's precision approach and landing capabilities, improves precision airdrop capabilities and integrates real-time information in the cockpit. It also resolves imminent obsolescence and Diminishing Manufacturing Source (DMS) issues. AMP also modifies or buys new C-130 aircrew and maintenance training systems and courseware.

In total, this AMP modernization will lower the overall cost of ownership for these fleets by reducing the cockpit crew manning.

This fleet consists of three different Mission Design Series (MDS) to be modified by AMP: C-130H2, H2.5, and H3. Within each of these MDS, multiple cockpit and avionics variations exist. Today, these differences create significant logistics support and aircrew training inefficiencies. Also, these differences greatly complicate aircrew and aircraft scheduling and interoperability particularly at forward operating locations. C-130 AMP standardizes the cockpit configurations and avionics suites for these different variants into a single cockpit configuration by installing a core avionics package with a common cockpit layout, eliminating many of these logistics, interoperability and training problems.

The 27 Dec 10 ADM approved the addition of 6 additional Low Rate Initial Production (LRIP) kits to smooth the transition into Full Rate Production (FRP). LRIP installs have increased from 20 to 26 kits. Planned activities for FY12 include procurement of an additional eight AMP kits, associated training and support for these eight kits, and installation of the six AMP kits previously procured.

The Source Familiarization Phase (SFP) contract will award in FY12. SFP's purpose is to enhance competition during AMP's FRP phase by providing hands on installation experience with AMP kits before the FRP competition. Two of the FY13 planned installs will be awarded to the SFP contractor, with the remainder being shared between Warner Robins Air Logistics Center (WR-ALC) and Boeing. The FRP contract award will be a downselect between the SFP contractor winner and Boeing. Efforts will also continue to develop an organic depot capability at WR-ALC.

This program has associated Research Development Test & Evaluation (RDT&E) funding in PE 0401115F.

Aircraft Breakdown: ACTIVE 14, RESERVE 83, ANG 121, TOTAL 218

**Development Status**

To date, Boeing has completed all Critical Design Reviews (CDR) for AMP's hardware and majority of the software requirements. Software upgrades will continue into 2012. Retrofit of the three test aircraft to production-configuration was complete in Jun 10. Developmental efforts for the AMP's training systems will continue through FY13. In addition, this System Development & Design (SDD) contract allows for special mission analyses, studies, and engineering efforts in support of additional Mission Design Series (MDS) and planning for future block upgrades.

All aircraft flight test Development Test and Evaluation (DT&E) requirements were completed in Dec 09. Initial Operational Test & Evaluation (IOT&E) is scheduled to start in 2nd quarter FY12. Software Build 0.2 will require follow-on developmental and operational flight test and is scheduled to begin in 4th quarter FY12.

Prior Years RDT&E funding estimate is \$1,332.660M. This does not include \$257.9M of Major Force Program (MFP) funding from FY 01-06. The To-Complete funding estimate is \$18.377M in FY13.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Guard)	[3]	1332.660		102.347		43.472		24.509				18.377
RDT & E (3600) (Reserve)												
Total : RDT & E (3600)	[3]	1332.660		102.347		43.472		24.509				18.377
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)												
INSTALL KITS Group A (Guard)	[0]											
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	[0]											
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)	[0]											
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR	[0]											
EQUIPMENT Group B (Active)	[0]											
EQUIPMENT Group B (Guard)	[0]						[2]				[0]	
EQUIPMENT Group B (Reserve)	[0]						[6]				[8]	
TOTAL: EQUIPMENT	[0]						[8]				[8]	
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)	[0]											
EQUIP NONREC Group B (Reserve)	[0]											
TOTAL: EQUIP NONREC	[0]											
CHANGE ORDERS												
DATA												
SIM/TRAINER							[2]	8.869				8.604
SUPPORT- EQUIP								0.000				0.093
Kit Fab and Assembly							[8]	78.597			[8]	78.266
OGC								6.552				7.085
INSTALL KITS							[6]	47.214			[8]	52.468
SE/PM								57.831				63.251
ICS-Labor								15.577				15.429
ICS-Material								5.011				4.963
DEPOT STAND-UP								1.589				5.115
PMA								10.097				9.152

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
SPARES								4.298				4.296
Withhold Adjustments												
ABIDES Alignment												
INSTALLATION OF HARDWARE												
TOTAL INSTALL												
TOTAL COST (BP-1100)								235.635				248.722
(Totals may not add due to rounding)												
INSTALLATION QTY			1		3		4				6	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)									[3]	1521.365
RDT & E (3600) (Reserve)										
Total : RDT & E (3600)									[3]	1521.365
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)									[0]	
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									[0]	
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)									[0]	
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									[0]	
EQUIPMENT Group B (Active)					[1]		13		[14]	
EQUIPMENT Group B (Guard)	[11]		[20]		[18]		60		[111]	
EQUIPMENT Group B (Reserve)	[9]		[12]		[20]		28		[83]	
TOTAL: EQUIPMENT	[20]		[32]		[39]		[101]		[208]	
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)									[0]	
EQUIP NONREC Group B (Reserve)									[0]	
TOTAL: EQUIP NONREC									[0]	
CHANGE ORDERS										
DATA										
SIM/TRAINER	[3]	25.070	[2]	29.217	[2]	39.273	3	67.024	[12]	178.057
SUPPORT- EQUIP		6.913		1.292		0.517		0.885		9.700
Kit Fab and Assembly	[20]	193.188	[32]	307.562	[39]	380.764	101	1052.601	[208]	2090.978
OGC		10.081		14.221		19.963		64.026		121.928
INSTALL KITS	[8]	51.451	[20]	117.523	[32]	173.120	140	708.596	[214]	1150.372
SE/PM		50.756		59.286		53.509		204.824		489.457
ICS-Labor		5.545								36.551
ICS-Material		1.784								11.758
DEPOT STAND-UP		6.976								13.680
PMA		10.438		11.291		11.589		42.958		95.525

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
SPARES		10.582		16.800		20.748		57.322		114.046
Withhold Adjustments										
ABIDES Alignment										
INSTALLATION OF HARDWARE										
TOTAL INSTALL										
TOTAL COST (BP-1100)		372.784		557.192		699.483		2198.236		4312.052
(Totals may not add due to rounding)										
INSTALLATION QTY	7		14		28		155		218	

Method of Implementation: Combination

Initial Lead Time: 14 months Months

Follow-On Lead Time: 14 months Months

**Milestones**

	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>
Contract Date (Month/CY)						05/12	10/13	02/14	01/15	01/16
Delivery Date (Month/CY)						03/13	04/14	04/15	03/16	10/16

**Installation Schedule**

Quarter	<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>					
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Input																	1	1			2		2	2					3	1	2			
Output																					1	1		1	1								1	4

  

Quarter	<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>				<u>FY-17</u>				<u>FY-18</u>				<u>FY-19</u>				<u>FY-20</u>				<u>FY-21</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input	1	2	2	2	2	2	4	6	6	8	7	7	12	8	10	11	11	10	9	10	12	9	10	12	10	12	9					
Output	1	2	1	3		3	2	2	2	4	6	2	2	8	7	7	12	7	7	10	12	10	7	8	10	12	9	10	12	10	8	13

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: GLIDER MODS</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$0.119	\$0.120	\$0.123	\$	\$0.123	\$0.126	\$0.128	\$0.131	\$0.133

This line item funds modifications to the TG-10, TG-14 and TG-15 gliders and T-41, T-51 and UV-18 aircraft used at the US Air Force Academy. The primary effort in FY12 is low cost modifications.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	99999X	LOW COST MODIFICATIONS	0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.1		3.7
<b>TOTAL FOR CLASS P</b>			0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.1		3.7
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS</b>			0.0										0.0
<b>TOTAL FOR WEAPON SYSTEM GLIDER MODS</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications					P-1 LINE ITEM NOMENCLATURE: T-6					
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16	
<b>COST (In Mil)</b>	\$23.582	\$24.644	\$15.086	\$	\$15.086	\$16.312	\$10.630	\$12.918	\$13.161	

Totals include funding for PRCP Program Number 560, JPATS.

The Joint Primary Aircraft Training System (JPATS) replaces the USAF T-37B and USN T-34C training aircraft and their associated ground based training systems. The JPATS T-6 aircraft provides significant improvements over the aircraft it is replacing, including a 0/0 ejection seat which accommodates a larger anthropometric pilot population, a pressurized cockpit, anti-g capability, and increased birdstrike protection. The primary modifications in FY2012 include the Aircrew Training Device (ATD) visual system retrofit, landing gear handle redesign, canopy fracture initiation system, On-Board Oxygen Generating System (OBOGS) low pressure switch and concentrator, and the power control lever upgrade. The specific modifications budgeted and programmed are below.

CLASS	MOD NR	MODIFICATION TITLE	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16	COST TO GO	TOTAL PROG
P	37222	Landing Gear Shimmy			0.3		0.3	0.7	0.8	0.8	0.8	4.6	7.9
	37224	Power Control Lever		0.1	1.5		1.5	1.8	2.8	0.5			6.6
	37225	OBOGS Low Pressure Switch and Concentrator	0.3	0.8	0.8		0.8	0.2					2.1
	37226	Landing Gear Door Spring Housing, Bellcrank & Pushrods		1.9	0.8		0.8						5.6
	37227	IDARS-MFOQA	3.9										3.9
	37229	ATD Visual System Retrofit		5.6	5.7		5.7	5.2	4.0	3.5			24.0
	9847	Avionics Obsolesence	1.3	2.5	2.5		2.5	2.3	0.1	2.8	5.6	8.7	33.7
	9857	Traffic Advisory System	9.4	9.5	1.5		1.5						29.4
	9871	COCKPIT UPGRADES		0.0									6.0
	9875	LANDING GEAR HANDLE REDESIGN		0.2	1.4		1.4	2.6	2.9	0.6			7.8
	9876	AIRFRAME STRUCTURAL IMPROVEMENTS	5.7	2.1	0.5		0.5	3.0	0.0	3.3	4.8		26.9
	99999X	LOW COST MODIFICATIONS	1.4	1.9	0.1		0.1	0.4	0.1	1.5	2.0		10.9
	Z88888	ADJUSTMENTS	1.6										1.6
<b>TOTAL FOR CLASS P</b>			23.6	24.6	15.1		15.1	16.3	10.6	12.9	13.2	13.3	166.4

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>	<b>P-1 LINE ITEM NOMENCLATURE: T-6</b>
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<u>CLASS</u>	<u>MOD</u> <u>NR</u>	<u>MODIFICATION</u> <u>TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12OCO</u>	<u>FY-12Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST</u> <u>TO GO</u>	<u>TOTAL</u> <u>PROG</u>
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TOTAL FOR WEAPON SYSTEM T-6

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. ATD Visual System Retrofit MN- 37229

CLC: T-6 Class: P

Models of Systems Affected: T6-A

Center: ASC - Wright Patterson AFB, OH

PE 0804740F

Team PERSO

**Description/Justification**

Air Education and Training Command (AETC) has a requirement to modernize the projectors in 51 Aircrew Training Devices (ATD) -- Operational and Instrument Flight Trainers (OFT and IFT). The end of life for some of the currently fielded projectors is forecast for 2010 and they are no longer manufactured. Total initial cost for replacement projectors/bulbs is \$33,000 versus the \$43,000 cost of the original units. Additionally, the replacement systems offer lower maintenance cost and better performance (enhanced brightness/contrast) than the original units. The new units have been incorporated into production ATDs and are being retrofit into fielded ATDs.

Kits and installations are not separately priced.

Aircraft Breakdown: ACTIVE 51, RESERVE 0, ANG 0, TOTAL 51

**Development Status**

Development in PE 0604233F is complete.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)												
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS												
KITS NONRECUR Group A (Active)					[12]	5.635	[13]	5.651			[12]	5.227
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR					[12]	5.635	[13]	5.651			[12]	5.227
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
INSTALLATION OF HARDWARE												
TOTAL INSTALL												
TOTAL COST (BP-1100)						5.635		5.651				5.227
(Totals may not add due to rounding)												
INSTALLATION QTY												

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS										
KITS NONRECUR Group A (Active)	[8]	3.980	[6]	3.500					[51]	23.993
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR	[8]	3.980	[6]	3.500					[51]	23.993
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
INSTALLATION OF HARDWARE										
TOTAL INSTALL										
TOTAL COST (BP-1100)		3.980		3.500						23.993
(Totals may not add due to rounding)										
INSTALLATION QTY										

Method of Implementation: Contract Field Team  
 Initial Lead Time: 6 Months

Follow-On Lead Time: 6 Months

**Milestones**

	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>
Contract Date (Month/CY)	01/11	01/12	01/13	01/14	01/15	
Delivery Date (Month/CY)	07/11	07/12	07/13	07/14	07/15	

**Installation Schedule**

	<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>							
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																				
Output																																				

  

	<u>FY-17</u>				<u>FY-18</u>				<u>FY-19</u>				<u>FY-20</u>				<u>FY-21</u>				<u>FY-22</u>				<u>FY-23</u>				<u>FY-24</u>							
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																				
Output																																				

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: T-1</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$0.035	\$0.083	\$0.238	\$	\$0.238	\$0.272	\$0.277	\$0.283	\$0.288

This line item funds modifications to the T-1A aircraft. The T-1A is a missionized Beech 400A used in the Airlift/Tanker track of USAF Specialized Undergraduate Pilot Training (SUPT) and in Combat Systems Officer (CSO) training for Air Education and Training Command (AETC). It is powered by two Pratt and Whitney JT15D-5 turbofan engines mounted on the aft fuselage producing 2,900 pounds of thrust each. Avionics include Ultra High Frequency (UHF) and Very High Frequency (VHF) radios, Inertial Navigation System (INS), Tactical Air Navigation (TACAN), Airborne Direction Finder (ADF), and two Very High Frequency Omni Range/Instrument Landing System (VOR/ILS). Aircraft modified for CSO training include a Global Positioning System (GPS)-driven synthetic radar and simulated Radar Warning Receiver (RWR) in the right seat flight deck position to be utilized by the student CSO. A second student station and a second instructor station has also been added in the rear of the aircraft. The primary effort in FY2012 is low cost modifications.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	99999X	LOW COST MODIFICATIONS	0.0	0.1	0.2		0.2	0.3	0.3	0.3	0.3		1.7
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			0.0	0.1	0.2		0.2	0.3	0.3	0.3	0.3		1.7
<b>TOTAL FOR WEAPON SYSTEM T-1</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications					P-1 LINE ITEM NOMENCLATURE: T-38					
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16	
<b>COST (In Mil)</b>	\$60.869	\$28.288	\$31.032	\$	\$31.032	\$31.055	\$23.778	\$24.242	\$16.509	

The program funding includes reductions for Overhead Reduction efficiencies that are not intended to impact program content. The efficiencies reductions total \$0.134M in FY12.

The T-38 is a twin engine, two seat (tandem), supersonic jet trainer used by Air Education Training Command as an advanced trainer in Specialized Undergraduate Pilot Training. Modifications are budgeted to enhance operational capability while improving flight safety, reliability, and maintainability. The primary modifications budgeted in FY12 are the Escape System Upgrade Program (ESUP) and Pacer Classic III. The specific modifications budgeted and programmed are below.

CLASS	MOD NR	MODIFICATION TITLE	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16	COST TO GO	TOTAL PROG
P-S	99999A	LOW COST SAFETY MODIFICATIONS	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.1
<b>TOTAL FOR CLASS P-S</b>			0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.1
P	6034	T-38 PROPULSION MODERNIZATION PROGRAM	8.9										652.0
	6087	T-38 ESCAPE SYSTEM UPGRADE	16.6	6.6	2.9		2.9	2.2					159.7
	6088	Pacer Classic III	30.6	21.7	26.0		26.0	26.7	23.8	24.2	16.5	23.2	192.7
	6089	VDTS/SBIS			2.1		2.1	2.1					4.2
	99999X	LOW COST MODIFICATIONS	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		2.1
	Z88888	ADJUSTMENTS	4.8										4.8
<b>TOTAL FOR CLASS P</b>			60.9	28.3	31.0		31.0	31.1	23.8	24.2	16.5	23.2	1015.4
<b>TOTAL FOR WEAPON SYSTEM T-38</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 56	PAGE NO. 1	
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02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Pacer Classic III MN- 6088

CLC: T-38 Class: P

Models of Systems Affected: T-38C

Center: OO-ALC

PE 0804741F

Team PERSO

**Description/Justification**

Pacer Classic III (PC III) is a depot-level modification program which replaces known life-limited components and ensures structural sustainment of 125 T-38C aircraft at high risk of grounding (51 at risk of grounding by FY12 and 74 aircraft prior to FY20). Timely modifications will ensure execution of customer (Air Education and Training Command) mission to FY26.

PC III will replace major structural components within the aircraft fuselage including major longerons, bulkhead/formers, internal skins and structural floors. These modifications have been categorized as Safety of Flight and determined by HQ Air Force Material Command to be required to correct material deficiencies to insure safety of personnel, systems or equipment. If uncorrected, the hazard will ground the system or equipment, restrict flight or ground operations, or result in unacceptable risk to personnel.

The T-38 System Program Office (SPO), funded by the lead MAJCOM AETC and Euro Nato Joint Jet Pilot Training (ENJJPT) has defined and will accommodate the PC III structural retrofit, as it is necessary to maintain AETC mission capability. PC III installations will be performed by the 309 MXW Forward Operating Location (FOL)(FY11-FY18).

The "See Remarks" line in the funding table is for Advisory and Assistance Support (A&AS) Contract.

Aircraft Breakdown: ACTIVE 125, RESERVE 0, ANG 0, TOTAL 125

**Development Status**

Not applicable -- PC III is a form, fit and function replacement of aircraft structural components.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)			31	20.011	20	12.900	20	12.900			14	8.400
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS			31	20.011	20	12.900	20	12.900			14	8.400
KITS NONRECUR Group A (Active)			[0]	1.400								
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR			[0]	1.400								
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
OGC				2.000		0.847		0.629				
TOOLING				3.700		3.000		4.000				
ENG SUPPORT				3.000		2.500		3.000				0.647
*** See Remarks ***				0.450		0.450		0.450				
INSTALLATION OF HARDWARE												
FY-10 (Active)	31 KITS				[2]	2.000		[2]	5.000		[18]	17.661
FY-11 (Active)	20 KITS											
FY-12 (Active)	20 KITS											
FY-13 (Active)	14 KITS											
FY-14 (Active)	14 KITS											
FY-15 (Active)	14 KITS											
FY-16 (Active)	12 KITS											
TOTAL INSTALL					2	2.000		2	5.000		18	17.661
TOTAL COST (BP-1100)			31	30.561	20	21.697		20	25.979		14	26.708
(Totals may not add due to rounding)												
INSTALLATION QTY					2			16			18	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	14	6.300	14	6.300	12	4.800			125	71.611
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	14	6.300	14	6.300	12	4.800			125	71.611
KITS NONRECUR Group A (Active)									[0]	1.400
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									[0]	1.400
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
OGC										3.476
TOOLING										10.700
ENG SUPPORT		0.331		0.382		0.000		0.000		9.860
*** See Remarks ***										1.350
INSTALLATION OF HARDWARE										
FY-10 (Active)	31 KITS	[9]	8.568						[31]	33.229
FY-11 (Active)	20 KITS	[9]	8.569	[11]	10.724				[20]	19.293

**Continued**

		<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-12 (Active)	20 KITS			[7]	6.825	[13]	8.398			[20]	15.223
FY-13 (Active)	14 KITS					[5]	3.300	9	4.275	[14]	7.575
FY-14 (Active)	14 KITS							14	6.650	[14]	6.650
FY-15 (Active)	14 KITS							14	6.647	[14]	6.647
FY-16 (Active)	12 KITS							12	5.663	[12]	5.663
TOTAL INSTALL		18	17.137	18	17.549	18	11.698	49	23.235	125	94.280
TOTAL COST (BP-1100)		14	23.768	14	24.231	12	16.498		23.235	125	192.677
(Totals may not add due to rounding)											
INSTALLATION QTY		18		18		18		35		125	

Method of Implementation: Depot

Initial Lead Time: 18 Months

Follow-On Lead Time: 18 Months

**Milestones**

	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>
Contract Date (Month/CY)	01/11	06/11	06/12	06/13	06/14	06/15	06/16	
Delivery Date (Month/CY)	03/12	12/12	12/13	12/14	12/15	12/16	12/17	

**Installation Schedule**

	Quarter	<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>							
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Input										1				1				5	5	6						4	5	4	5	4	5	4	5	4	5	4	5
Output														1		1						5	5	6	4	5	4	5	4	4	5	4	5	4	5	4	5
	Quarter	<u>FY-16</u>				<u>FY-17</u>				<u>FY-18</u>				<u>FY-19</u>																							
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																				
Input		4	5	4	5	4	5	4	5	4	5	4	4																								
Output		5	4	5	4	5	4	5	4	5	4	5	4	5	4	4																					

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UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications					P-1 LINE ITEM NOMENCLATURE: KC-10				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$9.409	\$17.317	\$27.220	\$0.000	\$27.220	\$79.946	\$75.612	\$39.520	\$4.617

This line item funds modifications to the KC-10 aircraft. The three engine KC-10 serves a dual-role by providing both air refueling and strategic airlift support. The aircraft provides air refueling by using both the boom and drogue methods and can carry up to 27 standard 463-L pallets. The specific modifications budgeted and programmed are listed below.

CY funding totals include \$3.54M requested for Overseas Contingency Operations.

The program funding includes reductions for Overhead Reduction efficiencies that are not intended to impact program content. The efficiency reductions total \$0.185M in FY12.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P-S	99999A	LOW COST SAFETY MODIFICATIONS	0.0	0.0	0.0		0.0						0.0
<b>TOTAL FOR CLASS P-S</b>			0.0	0.0	0.0		0.0						0.0
P	7726	CNS/ATM			17.4		17.4	68.7	67.4	34.0			187.4
	7727	Boom Control Unit (BCU)		3.8	3.9		3.9						7.7
	7728	Mode 5						4.6	4.3	1.2	0.7		10.7
	7729	Visual System Replacement (VSR)	6.3	6.4									12.7
	7730	UHF SATCOM Antenna		3.5									3.5
	99999S	SERVICE BULLETINS	3.1	3.6	5.9		5.9	6.7	4.0	4.3	3.9		35.2
	99999X	LOW COST MODIFICATIONS	0.0	0.0	0.0		0.0	0.0	0.0	0.0			4.0
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			9.4	17.3	27.2		27.2	79.9	75.6	39.5	4.6		261.3
<b>TOTAL FOR WEAPON SYSTEM KC-10</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. CNS/ATM MN- 7726

CLC: KC-10 Class: P

Models of Systems Affected: KC-10

Center: OC-ALC - Tinker AFB Okla City, OK

PE 0401219F

Team MOBIL

**Description/Justification**

The KC-10 Communications, Navigation, and Surveillance/Air Traffic Management (CNS/ATM) program provides worldwide civil airspace accessibility by FY2015 for the fleet of 59 aircraft. FAA airworthiness certification following the modification is required. An upgrade of the current Flight Management System (FMS) and Inertial Navigation System (INS) is required to meet the 2015 CNS/ATM requirements and address associated INS and FMS obsolescence issues. This capability gap is well documented in both RAND KC-10 Analysis of Alternatives (AoA) and Service Life Extension Program (SLEP) Studies. Avionics components shall use either Commercial Off-The-Shelf (COTS), or Military Off-The-Shelf (MOTS) software and hardware. CNS/ATM requirements include: Required Navigation Performance 4 (RNP-4) Oceanic/Remote for enroute Oceanic Airspace with either 50/50 nautical mile (NM) or 30/30 NM separations; Area Navigation (RNAV) 2 & 1 for enroute & terminal airspace operations; Precision-RNAV (P-RNAV) for preferred terminal area routes in Europe (1 NM Accuracy); RNP-4 & RNP-1 for reduced separations enroute, and terminal airspace; Time of Arrival Control for Refuel rendezvous (within 30sec); Automated Dependent Surveillance-B Out (ADS-B Out) for enhanced air and ground surveillance; Global Positioning System (GPS) for enhanced navigation capability; Selective Availability Anti-Spoofing Module (SAASM) for GPS Security; Satellite Data Link for ATS and Command and Control (C2) Communications for flight in Oceanic Airspace (FL310-410); Satellite Voice for Beyond-Line-Of-Sight (BLOS) Pilot – Controller Communications C2 Operations; and Very High Frequency Datalink (VDL) Mode-2 for Line of Sight (LOS) Pilot – Controller Communications and C2 Operations.

CNS/ATM is a New Start program (Procurement) in FY12.

Aircraft Breakdown: ACTIVE 59, RESERVE 0, ANG 0, TOTAL 59

**Development Status**

Engineering Manufacturing Development (EMD) contract awarded 22 Jun 10.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		1.700		27.000		56.700		28.894				
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)		1.700		27.000		56.700		28.894				
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	0						3	0.973			24	7.784
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	0						3	0.973			24	7.784
KITS NONRECUR Group A (Active)	[0]						[0]	4.199				
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR	[0]						[0]	4.199				
EQUIPMENT Group B (Active)	[0]						[3]	5.010			[24]	40.080
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL: EQUIPMENT	[0]						[3]	5.010			[24]	40.080
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA								0.519				0.758
SIM/TRAINER							[1]	3.287			[2]	3.131
SUPPORT- EQUIP												
TRAINING								1.563				2.200
INSTALLATION OF HARDWARE												
FY-12 (Active)			3 KITS				[3]	1.843				
FY-13 (Active)			24 KITS								[24]	14.747
FY-14 (Active)			24 KITS									
FY-15 (Active)			8 KITS									
TOTAL INSTALL								3	1.843		24	14.747
TOTAL COST (BP-1100)		0						3	17.394		24	68.700
(Totals may not add due to rounding)												
INSTALLATION QTY								3			24	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										114.294
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										114.294
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	24	7.784	8	2.595					59	19.136
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	24	7.784	8	2.595					59	19.136
KITS NONRECUR Group A (Active)									[0]	4.199
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									[0]	4.199
EQUIPMENT Group B (Active)	[24]	40.080	[8]	13.360					[59]	98.530
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT	[24]	40.080	[8]	13.360					[59]	98.530
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA		0.197		3.974						5.448
SIM/TRAINER	[2]	3.298	[1]	4.517					[6]	14.233
SUPPORT- EQUIP										
TRAINING		1.250		4.638						9.651
INSTALLATION OF HARDWARE										
FY-12 (Active)			3 KITS						[3]	1.843
FY-13 (Active)			24 KITS						[24]	14.747
FY-14 (Active)	[24]	14.747							[24]	14.747
FY-15 (Active)			8 KITS	[8]	4.916				[8]	4.916
TOTAL INSTALL	24	14.747	8	4.916					59	36.253
TOTAL COST (BP-1100)	24	67.356	8	34.000					59	187.450

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
(Totals may not add due to rounding)										
INSTALLATION QTY	24		8						59	

Method of Implementation: Contractor Facility

Initial Lead Time: 3 Months

Follow-On Lead Time: 3 Months

**Milestones**

	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>
Contract Date (Month/CY)						05/12	11/12	10/13	10/14
Delivery Date (Month/CY)						08/12	02/13	01/14	01/15

**Installation Schedule**

	<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter																																
Input																																
Output																																

  

	<u>FY-14</u>				<u>FY-15</u>			
	1	2	3	4	1	2	3	4
Quarter								
Input	6	6	6	6	6	2		
Output	6	6	6	6	6	6		

02/05/2011  
FY 2012 PB

UNCLASSIFIED  
Individual Modification

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. SERVICE BULLETINS MN- 99999S

CLC: KC-10 Class: P

Models of Systems Affected: KC-10

Center: OC-ALC - Tinker AFB Okla City, OK

PE 0401219F

Team MOBIL

**Description/Justification**

These funds pay for Service Bulletins (SBs), Airworthiness Directives (ADs), and All Operator Letters (AOLs) issued to correct identified deficiencies, provide product improvements, and incorporate aging aircraft and FAA certification requirements. The current major requirements include fuel system updates and flight control cable freeze protection.

Aircraft Breakdown: ACTIVE 59, RESERVE 0, ANG 0, TOTAL 59

**Development Status**

N/A

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)												
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS												
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
AIRCRAFT		3.758		3.124		3.583		5.905				6.658
TOTAL COST (BP-1100)		3.758		3.124		3.583		5.905				6.658
(Totals may not add due to rounding)												
INSTALLATION QTY												

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS										
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
AIRCRAFT		3.961		4.310		3.937				35.236
TOTAL COST (BP-1100)		3.961		4.310		3.937				35.236
(Totals may not add due to rounding)										
INSTALLATION QTY										

Method of Implementation: Unassigned  
 Initial Lead Time: 0 Months

Follow-On Lead Time: 0 Months

**Milestones**

	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>	<u>FY-18</u>	<u>FY-19</u>	<u>FY-20</u>	<u>FY-21</u>
Contract Date (Month/CY)															
Delivery Date (Month/CY)															

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UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications					P-1 LINE ITEM NOMENCLATURE: C-12				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$0.470	\$7.645	\$1.777	\$0.000	\$1.777	\$1.876	\$1.876	\$1.979	\$2.014

This line item funds low-cost modifications and service bulletins for the C-12 aircraft, commercial equivalent to the Beech Craft Super King Air. The C-12 is a twin-turboprop, support-airlift aircraft used to transport cargo and passengers. Service bulletins are necessary for continuing FAA certification while improving flight safety, reliability, and maintainability.

CLASS	MOD NR	MODIFICATION TITLE	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16	COST TO GO	TOTAL PROG
P	6160	DEFENSIVE SYSTEMS		5.9									5.9
	99999S	SERVICE BULLETINS	0.5	1.5	1.6		1.6	1.7	1.7	1.8	1.9		11.0
	99999X	LOW COST MODIFICATIONS	0.0	0.2	0.2		0.2	0.2	0.2	0.2	0.2		1.6
<b>TOTAL FOR CLASS P</b>			0.5	7.6	1.8		1.8	1.9	1.9	2.0	2.0		18.6
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS</b>			0.0										0.0
<b>TOTAL FOR WEAPON SYSTEM C-12</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: MC-12W</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$176.807	\$10.826	\$16.767	\$17.300	\$34.067	\$17.054	\$31.897	\$23.223	\$12.465

FY 2010 funding totals include \$114.0M appropriated for two separate initiatives (\$29.0M and \$85.0M) for Overseas Contingency Operations (OCO).

FY 2012 funding totals include \$17.3M requested for Overseas Contingency Operations (OCO).

FY 2010 funding totals include \$63.0M appropriated for High Definition (HD) sensors. The contract for this initiative was awarded on 20 January 2010. Majority of this contract goes towards the purchase of the long lead item, the EO/IR sensor balls. The \$29.0M that was appropriated via OCO Supplemental will be used to retrofit two of the Phase 1 aircraft to the Phase 2 configuration. That contract was awarded on 8 November 2010. Finally, the \$85.0M received per the OCO Surge supplemental was requested to modify the five additional Hawker Beechcraft King Air 350ER aircraft to the Phase 2 configuration that were purchased with FY 2010 OCO Surge aircraft procurement funding. The modification contract was awarded to L-3Communications (L-3Com), Greenville, TX on 21 December 2010. These five aircraft are projected to deliver from Hawker Beechcraft Corporation, Wichita, KS to L-3Com in February through June 2011.

FY 2011 and FY 2012 funding totals, including the \$17.3M requested via the FY 2010 OCO Supplemental, will be used to fund user requested modifications (Form 1067s) and service bulletins for the MC-12W fielded aircraft. Prioritization of these user requested modifications will be as a result of the Air Combat Command's Requirements Working Group recommendations.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	9144	C-12 ISR Modifications	176.8	10.8	16.8	17.3	34.1	17.1	31.9	23.2	12.5		306.3
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			176.8	10.8	16.8	17.3	34.1	17.1	31.9	23.2	12.5		306.3
<b>TOTAL FOR WEAPON SYSTEM MC-12W</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. C-12 ISR Modifications MN- 9144

CLC: MC-12W Class: P

Models of Systems Affected: MC-12W

Center: ASC - Wright Patterson AFB, OH

PE 0305230F

Team Unassigned

**Description/Justification**

Liberty Project Aircraft (LPA), military designation MC-12W, is the Air Force's multi-role, medium altitude, manned aircraft system performing an intelligence, surveillance, and reconnaissance (ISR) mission coupled with a target acquisition (TA) capability. LPA was initiated through the SECDEF-directed ISR Task Force to address the ever-increasing Combatant Commander's requirements to satisfy ISR capabilities shortfalls in on-going Overseas Contingency Operations (OCO). Program management is the responsibility of the 645th Aeronautical Systems Group (AESG, a.k.a. BIG SAFARI Program Office) and L-3Communications (L-3Com) is on contract as the prime integrator for the MC-12W system. L-3Com modified seven Hawker Beechcraft Corporation (HBC) King Air 350 aircraft to the MC-12W Phase 1 configuration (LPA #1 through #7) which included: full motion video (FMV) line-of-sight (LOS) data link for Remote Video Terminals (RVTs, a.k.a. Remote Operations Video Enhanced Receiver {ROVER} and One System Remote Video Terminal {OSRVT} receivers); limited signals intelligence (SIGINT) collection capability; and narrowband INMARSAT data link for beyond line-of-sight (BLOS) connectivity. L-3Com has modified 30 HBC King Air 350 extended range (ER) aircraft to the MC-12W Phase 2 configuration (LPA #8 through #37) to include: enhanced FMV with laser designator capability; a more robust SIGINT capability; and a Ku-band spread spectrum (KuSS) data link with increased bandwidth for BLOS connectivity.

FY 2010 funding totals also include \$63.0M of baseline funding to procure and integrate a high definition (HD) enhanced Electro-Optical/Infrared (EO/IR) sensor ball capability. Long lead items are on contract and the integration effort is projected to commence in 3rd Quarter of FY 2011. In addition, \$29.0M of FY2010 OCO Supplemental funding was appropriated to retrofit two MC-12W Phase 1 aircraft to the Phase 2 configuration. The seven month retrofit effort is scheduled to begin in 2nd Quarter FY 2011. Also, \$85.0M of OCO Surge Supplemental funding was provided for the modification of the five additional Hawker Beechcraft King Air 350ER aircraft to the MC-12W Phase 2 configuration purchased with FY 2010 OCO Surge funding. The FY10 OCO surge funding included all equipment and installation costs, which are not broken out separately.

FY 2012 funding includes \$17.3M requested via an OCO submission as an aircrew safety of flight initiative to upgrade the MC-12W's autopilot system. The upgrade provides a manual roll and bank capability that allows for enhanced situation awareness for the pilots operating in a task saturated environment and addresses a potential dangerous situation as defined by the operational user. Additionally, the \$16.7M in FY 2012 base funding is for upgrades to include, but not limited to, airframe components, SIGINT sensors systems, data links, EO/IR sensors, and the mission management system as prioritized provided by Air Combat Command (user) to respond to mission requirements changes in a rapidly evolving operational environment.

**MC-12W Fleet Breakout:**

- 5 King Air 350 aircraft are modified to the MC-12W Phase 1 configuration
  - 2 King Air 350 aircraft modified to the MC-12W Phase 1 configuration aircraft are being retrofitted to the MC-12W Phase 2 configuration; estimated completion date is 4th Quarter FY 2011
  - 30 King Air 350ER aircraft are modified to the MC-12W Phase 2 configuration
  - 5 King Air 350ER aircraft are entering modification in the 2nd Quarter of FY 2011 to become MC-12W Phase 2 configured aircraft; estimated completion date is 4th Quarter of FY 2011
- A total of 42 King Air 350 class aircraft (5 Phase 1 aircraft, 37 Phase 2 aircraft) will be the MC-12W LPA program of record.

Note: This modification is accomplished under P-1 Line No. 57, "C-12" prior to FY 2010.

Aircraft Breakdown: ACTIVE 42, RESERVE 0, ANG 0, TOTAL 42

**Development Status**

645 AESG selected L-3Communications (L-3Com), Greenville, TX as their prime contractor for the integration and modification of Hawker Beechcraft Corporation (HBC) King Air 350/350ER aircraft into MC-12W Liberty Project Aircraft (LPA) intelligence, surveillance and reconnaissance (ISR) platforms. L-3Com completed and delivered the 37th (Phase 2) MC-12W LPA to the Air Force on 18 August 2010. L-3Com was awarded a contract on 21 December 2010 to modify five additional King Air 350ER aircraft to the MC-12W LPA Phase 2 configuration (LPA #38 through #42). The projected completion of this contract is in the 1st Quarter of FY 2012 and this effort will complete the MC-12W LPA fleet at 42 aircraft in the program of record.

The manual roll bank upgrade to the aircraft autopilot system is a commercially available system that does not require additional development to install on the MC-12W.

Additionally, L-3Com is on contract to retrofit two MC-12W LPA Phase 1 aircraft to the MC-12W LPA Phase 2 configuration. This effort is projected to be completed in the 4th Quarter of FY 2011.

30 MC-12W LPA are currently deployed to the USCENCOM area of responsibility (AOR) to support Overseas Contingency Operations (OCO). Five MC-12W LPA are currently utilized as dedicated training assets operated by the 186th Air Refueling Wing (ANG), Key Field, Meridian, MS. And as mentioned above, L-3Com is on contract and has or will be shortly in possession of two MC-12W LPA Phase 1 aircraft (retrofitting to the Phase 2 configuration) and five King Air 350ER aircraft for modification to MC-12W LPA Phase 2 configuration. That is the distribution of the 42 MC-12W LPA fleet.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)			[5]	84.806								
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS			[5]	84.806								
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)			[40]	63.000								
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT			[40]	63.000								
EQUIP NONREC Group B (Active)			[0]									
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC			[0]									
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
RETROFIT			[2]	29.000								
UPDATES						10.826		16.767		17.300		17.054
INSTALLATION OF HARDWARE												
FY-10 (Active)	0 KITS					[0]						
TOTAL INSTALL						0						
TOTAL COST (BP-1100)				176.806		10.826		16.767		17.300		17.054
(Totals may not add due to rounding)												
INSTALLATION QTY						5						

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									[5]	84.806
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									[5]	84.806
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)									[40]	63.000
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT									[40]	63.000
EQUIP NONREC Group B (Active)									[0]	
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[0]	
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
RETROFIT									[2]	29.000
UPDATES		31.897		23.223		12.465				129.532
INSTALLATION OF HARDWARE										
FY-10 (Active)	0 KITS								[0]	
TOTAL INSTALL									0	
TOTAL COST (BP-1100)		31.897		23.223		12.465				306.338
(Totals may not add due to rounding)										
INSTALLATION QTY									5	

Method of Implementation: Contractor Facility

Initial Lead Time: 9 Months

Follow-On Lead Time: 9 Months

**Milestones**

	<u>FY-09</u>	<u>FY-10</u>
Contract Date (Month/CY)		12/10
Delivery Date (Month/CY)		09/11

**Installation Schedule**

	<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>			
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input									3	2										
Output													3	2						

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: C-20</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$0.732	\$0.736	\$0.241	\$	\$0.241	\$0.243	\$0.192	\$0.199	\$0.202

This line item funds low-cost modifications and service bulletins for the C-20 aircraft, commercial equivalent Gulfstream III/IV. The C-20 aircraft is a twin-engine, turboprop aircraft used to airlift DoD officials and high-ranking government personnel over long distances. Service bulletins are necessary for continuing FAA certification while improving flight safety, reliability, and maintainability.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	0707	COMM MOD	0.2	0.2									36.9
	99999S	SERVICE BULLETINS	0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.1		1.3
	99999X	LOW COST MODIFICATIONS	0.5	0.4	0.1		0.1	0.1	0.1	0.1	0.1		1.8
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			0.7	0.7	0.2		0.2	0.2	0.2	0.2	0.2		40.0
<b>TOTAL FOR WEAPON SYSTEM C-20</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: C-25</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$15.562	\$13.175	\$0.387	\$	\$0.387	\$11.185	\$0.484	\$0.449	\$15.127

This line item funds the Avionics Modernization Program (AMP), low-cost modifications, and service bulletins to the VC-25 aircraft. The VC-25, a Boeing 747-200B, is a four engine long-range aircraft used for Presidential support (more commonly known as Air Force One). The AMP upgrade provides increased pilot awareness, alleviates task saturation, and enhances safety in a high technology environment.

In addition to the funding listed below, an additional \$79.5M of RDT&E funding is budgeted in FY12 for engineering and integration.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	_6638	Airborne Information Management System (AIMS)	13.9	12.6									52.6
	9332	Forward Lower Lobe	1.1										1.8
	9711	C-25 Avionics Modernization Program			0.0		0.0	10.7	0.0		14.7		25.3
	99999S	SERVICE BULLETINS	0.5	0.5	0.2		0.2	0.3	0.4	0.3	0.4	0.0	5.8
	99999X	LOW COST MODIFICATIONS	0.1	0.1	0.2		0.2	0.2	0.1	0.1	0.1	0.0	1.1
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			15.6	13.2	0.4		0.4	11.2	0.5	0.4	15.1	0.0	86.6

**TOTAL FOR WEAPON SYSTEM C-25**

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: C-40</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$0.261	\$10.697	\$0.206	\$	\$0.206	\$0.243	\$0.247	\$0.252	\$0.255

The C-40 is a commercial-derivative Boeing 737 business jet that is FAA certified. The C-40 provides safe, comfortable and reliable transportation for U.S. leaders to locations around the world. The primary customers are Combatant Commanders and members of the Cabinet and Congress. The aircraft also performs other operational support missions. This line funds service bulletins and low cost modifications for the C-40. Service bulletins are necessary for continuing FAA certification while improving flight safety, reliability, and maintainability.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	0707	COMM MOD	0.0	10.5									52.1
	99999S	SERVICE BULLETINS	0.2	0.1	0.1		0.1	0.1	0.1	0.1	0.1		1.1
	99999X	LOW COST MODIFICATIONS	0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.1		2.9
<b>TOTAL FOR CLASS P</b>			0.3	10.7	0.2		0.2	0.2	0.2	0.3	0.3		56.1
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS</b>			0.0										0.0
<b>TOTAL FOR WEAPON SYSTEM C-40</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: C-130</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$275.575	\$424.059	\$45.876	\$164.041	\$209.917	\$68.209	\$37.127	\$21.256	\$20.352

FY12 funding totals include \$175.521M appropriated for Overseas Contingency Operations

298 PRCP Program Number (PNO)for C-130 AMP

This line item funds modifications to the C-130 and Special Mission C-130 aircraft. The four engine C-130 provides theater airlift and carries either 92 troops, 64 paratroopers, 74 litter patients, or 6 standard 463-L pallets.

The primary modifications budgeted in FY12 are the the Systems/Structure modification (Center Wing Replacement) and the start of the IFF/SIF Mode 5 upgrade.

Beginning in FY12, atthe direction of OSD, FY12 and out the procurement funding for C-130 Avionics Modernization Program (AMP) has moved to a separate budget line. Prior year funds are shown here. The specific modifications budgeted and programmed are listed below.

Projected allocations for Reserve Component requirements (modification kits and installation costs, subject to Total Force mission priorities and aircraft availability):

	2010	2011	2012	2013	2014	2015	2016
AFR	2.400	0	64.500	119.300	158.200	170.400	270.400
ANG	54.900	166.600	78.800	17.700	108.200	260.100	285.700

The program funding includes reductions for overhead reduction efficiencies that are not intended to impact program content. The efficiencies reductions total \$1.794M in FY12.

The program funding includes reductions for acquisition excellence efficiencies in FYs13-16 that are not intended to impact program content. Reductions for efficiencies may be spread to other Air Force programs at a later date. Amounts of the reductions are: \$5.932M/FY13, \$6.254M/FY14, \$9.803M/FY15 and \$14.846M/FY16.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P-S	99999A	LOW COST SAFETY MODIFICATIONS	2.0	1.9	0.0		0.0	0.9	0.0	0.6	1.1	1.9	9.2
<b>TOTAL FOR CLASS P-S</b>			2.0	1.9	0.0		0.0	0.9	0.0	0.6	1.1	1.9	9.2
P	11130	PODDED RECONNAISSANCE SYSTEM	3.6										8.4
	8455	INSTALLATION OF AN/APN-241	0.8	1.3									130.8
	8517	C-130 AVIONICS	0.0	170.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	364.4

Totals may not add due to rounding

TOTAL PROG includes Prior Year and Cost To Go Dollars

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UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>	<b>P-1 LINE ITEM NOMENCLATURE: C-130</b>
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CLASS	MOD NR	MODIFICATION TITLE	FY-10	FY-11	FY-12	FY-12OCO	FY-12Total	FY-13	FY-14	FY-15	FY-16	COST TO GO	TOTAL PROG
	8578	MODERNIZATION PROGRAM (AMP) C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)	55.9	62.7	22.4		22.4	52.1	33.4	13.4	13.6	188.0	882.7
	8579	Mode S & 8.33 MHz Upgrades	28.0										28.0
	8629	LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)	120.4	133.0		154.8	154.8						961.5
	9134	NOISE CANCELLATION SYSTEM	2.4										10.9
	9135	AC-130 OUTER WING REPLACEMENT	0.8	2.1	1.9		1.9	1.1	1.2	1.2			8.3
	9137	HC-130 8.33 RADIOS	12.6	4.1	3.4		3.4	1.9					22.1
	9139	MOD V IFF			18.2		18.2	6.5	2.5	1.6			28.8
	9141	C-130 CRASHWORTHY LOADMASTER SEAT		8.6									9.8
	9142	Tactics/Threat Generation System	9.0										9.0
	9145	Blue Force Tracker		0.4									0.4
	9146	Armor Plate		2.5		9.2	9.2						11.7
	9147	ENGINE OIL COOLER		3.4									3.4
	9148	Square Window Troop Door		28.4									28.4
	99999M	MISC SIMULATOR UPDATES	0.6	1.5	0.0		0.0	1.9	0.0	0.6	1.9	1.9	9.1
	99999S	SERVICE BULLETINS	1.9	1.5	0.0		0.0	1.9	0.0	1.9	1.9	1.9	11.5
	99999X	LOW COST MODIFICATIONS	1.9	1.9	0.0		0.0	1.9	0.0	1.9	1.9	1.9	25.0
	GW111	ELT UPGRADE	13.9										13.9
	SCOUT	ANG SENIOR SCOUT	18.9										77.5
	Z88888	ADJUSTMENTS	2.9										2.9

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>	<b>P-1 LINE ITEM NOMENCLATURE: C-130</b>
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<u>CLASS</u>	<u>MOD</u> <u>NR</u>	<u>MODIFICATION</u> <u>TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12OCO</u>	<u>FY-12Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST</u> <u>TO GO</u>	<u>TOTAL</u> <u>PROG</u>
			<b>TOTAL FOR CLASS P</b>			273.6	422.2	45.9	164.0	209.9	67.3	37.1	20.6

**TOTAL FOR WEAPON SYSTEM C-130**

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION) MN- 8578

CLC: C-130 Class: P

Models of Systems Affected: C-130H, MC-130H, HC-130P/N, EC-130H, AC-130U, Center: WRALC Robins AFB GA

PE 0401115F

Team MOBIL

**Description/Justification**

Replaces the Center Wing Box (CWB) on MC-130H, HC-130N/P, C-130H, EC-130H, and AC-130U aircraft whose center wing's service life expires between 2005-2025. Kit costs vary by Mission Design Series (MDS) as reflected in the kit costs FY05-FY20. Installations are done at Warner Robins Air Logistics Center (WR/ALC), except for the EC-130Hs which are done at L3Com's facility. Program was designated an ACAT II program in Apr 2010. Competitive acquisition for C-130H2/H3 Group A kits will begin in FY14.

FY 2012 (BY) Narrative: Provides funds for installation of 9 CWBs (3 MC-130Hs, 2 AC-130Us, 1 EC-130H, and 3 C-130H2/H3 aircraft). Impact if not funded: These 9 aircraft will exceed the center wing service life and will be grounded until the CWB can be replaced.

Aircraft Breakdown: ACTIVE 95, RESERVE 20, ANG 9, TOTAL 124

**Development Status**

N/A

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	84	310.101									3	14.362
INSTALL KITS Group A (Guard)	0											
INSTALL KITS Group A (Reserve)	1	3.489										
TOTAL: INSTALL KITS	85	313.590									3	14.362
KITS NONRECUR Group A (Active)	7	64.938										
KITS NONRECUR Group A (Guard)	0											
KITS NONRECUR Group A (Reserve)	0											
TOTAL: KITS NONRECUR	7	64.938										
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA		0.152										
SIM/TRAINER												
SUPPORT- EQUIP		3.040										
OGC		0.833		0.410		0.725		0.310				0.712
AF Withhold												
PMA		4.029		0.963		0.991		1.008				1.025
ECP												
OTHER						13.000						3.431
INSTALLATION OF HARDWARE												
FY-05 (Active)	9 KITS	[9] 21.138										
FY-06 (Active)	6 KITS	[6] 14.312										
FY-07 (Active)	32 KITS	[8] 19.082	[22]	54.542	[2]	5.055						
FY-07 (Reserve)	1 KITS				[1]	2.527						
FY-08 (Active)	36 KITS				[16]	40.439	[9]	21.088			[11]	29.784
FY-09 (Active)	8 KITS										[1]	2.790
FY-13 (Active)	3 KITS											
FY-14 (Reserve)	1 KITS											
FY-16 (Reserve)	3 KITS											
FY-17 (Reserve)	3 KITS											
FY-18 (Guard)	7 KITS											
FY-18 (Reserve)	3 KITS											
FY-19 (Active)	1 KITS											
FY-19 (Guard)	1 KITS											
FY-19 (Reserve)	6 KITS											
FY-20 (Guard)	1 KITS											
FY-20 (Reserve)	3 KITS											
TOTAL INSTALL	23	54.532	22	54.542	19	48.021	9	21.088			12	32.574
TOTAL COST (BP-1100)	92	441.114		55.915		62.737		22.406			3	52.104

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
(Totals may not add due to rounding)												
INSTALLATION QTY	23		22		19		9		0		12	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)							1	5.226	88	329.689
INSTALL KITS Group A (Guard)							9	46.912	9	46.912
INSTALL KITS Group A (Reserve)					3	6.139	15	78.347	19	87.975
TOTAL: INSTALL KITS					3	6.139	25	130.485	116	464.576
KITS NONRECUR Group A (Active)									7	64.938
KITS NONRECUR Group A (Guard)									0	
KITS NONRECUR Group A (Reserve)	1	16.972							1	16.972
TOTAL: KITS NONRECUR	1	16.972							8	81.910
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										0.152
SIM/TRAINER										
SUPPORT- EQUIP										3.040
OGC		0.725		0.738		0.748		3.083		8.284
AF Withhold										
PMA		1.042		1.060		1.078		4.539		15.735
ECP		0.983		0.276						1.259
OTHER										16.431
INSTALLATION OF HARDWARE										
FY-05 (Active)	9 KITS								[9]	21.138
FY-06 (Active)	6 KITS								[6]	14.312

**Continued**

		<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-07 (Active)	32 KITS									[32]	78.679
FY-07 (Reserve)	1 KITS									[1]	2.527
FY-08 (Active)	36 KITS									[36]	91.311
FY-09 (Active)	8 KITS	[5]	13.703	[2]	5.663					[8]	22.156
FY-13 (Active)	3 KITS			[2]	5.662	[1]	2.799			[3]	8.461
FY-14 (Reserve)	1 KITS					[1]	2.798			[1]	2.798
FY-16 (Reserve)	3 KITS							3	9.086	[3]	9.086
FY-17 (Reserve)	3 KITS							3	9.291	[3]	9.291
FY-18 (Guard)	7 KITS							7	22.064	[7]	22.064
FY-18 (Reserve)	3 KITS							3	9.456	[3]	9.456
FY-19 (Active)	1 KITS							1		[1]	
FY-19 (Guard)	1 KITS							1		[1]	
FY-19 (Reserve)	6 KITS							6		[6]	
FY-20 (Guard)	1 KITS							1		[1]	
FY-20 (Reserve)	3 KITS							3		[3]	
TOTAL INSTALL		5	13.703	4	11.325	2	5.597	28	49.897	124	291.279
TOTAL COST (BP-1100) (Totals may not add due to rounding)		1	33.425		13.399	3	13.562	25	188.004	124	882.666
INSTALLATION QTY		5		4		2		28		124	

Method of Implementation: Depot

Initial Lead Time: 32 Months

Follow-On Lead Time: 24 Months

**Milestones**

	<u>FY-04</u>	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>	<u>FY-18</u>
Contract Date (Month/CY)							12/09			12/12	12/13		12/15	12/16	12/17
Delivery Date (Month/CY)							12/11			12/14	12/15		12/17	12/18	12/19

**Installation Schedule**

Quarter	<u>FY-04</u>				<u>FY-05</u>				<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input					0	0	0	0	0	0	0	1	0	0	0	1	1	2	2	2	3	4	3	4	5	6	5	6	4	5	5	5
Output																	1	1	2	2	2	2	3	4	3	4	5	6	5	6	4	5

	<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>				<u>FY-17</u>				<u>FY-18</u>							
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input	2	3	2	2	0	0	0	0	3	3	3	3	2	1	1	1	1	1	1	1	1	1	1	0	1	0	1	0	0	1	0	0	1	1	0	0
Output	5	5	2	3	0	0	0	0	2	2	3	3	3	3	2	1	1	1	1	1	1	1	1	1	1	0	1	0	1	0	0	1	0	0	1	1

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM) MN- 8629  
Models of Systems Affected: C/AC-130 Center: WRALC Robins AFB GA

CLC: C-130 Class: P  
PE 0401134F Team MOBIL

**Description/Justification**

The Large Aircraft Infrared Countermeasures (LAIRCM) system provides a significantly improved defensive capability for the C-130 to counter the proliferating infrared (IR) Man-Portable Air Defense Systems (MANPADS) missile threats. This system is fully automatic following power-up and consists of Group A aircraft modification kits and Group B equipment. The LAIRCM system [AN/AAQ-24(V)] consists of 5 ultra-violet (UV) Missile Warning Sensors (MWS), 2 Guardian Laser Transmitter Assemblies (GLTA)/Small Laser Transmitter Assemblies (SLTA), a colorless eye-safe multiband laser, Control Indicator Unit (CIU), and a system processor to detect, track, and counter incoming Infrared (IR) missiles.

The "Change Orders" line includes Diminishing Manufacturing Sources (DMS) costs for the identification, review and monitoring of items with high DMS risk potential, classification of identified items according to criticality, identification of alternatives for items having high DMS risks, and non-recurring engineering (NRE)/replacement costs for DMS components. Additionally, "Change Orders" include NRE/replacement costs for equipment updates to increase reliability, availability, and maintainability of LAIRCM Group B line replaceable unit (LRU)/shop replaceable unit (SRU) components as identified during the fiscal year.

**NOTES:**

Two hundred and ninety-one (291) C-130 aircraft (Active, Guard and Reserve) are funded (includes FY 11 and 12 OCO request) and will be modified with LAIRCM. This PE also includes AFRC funding for PE 0504343F, C-130 Tactical Airlift Sqdns (AFRC): FY07 (\$0.029M), FY08 (\$39.097M), FY09 (\$54.958M), FY10 (\$1.033M), FY11 (\$1.019M). The AFRC PE is not funded in FY12-16.

FY08 procured 7 A & B kits and installs for AC-130H for AFSOC

FY08 Totals (\$8.248M C-130 Mod + \$39.097M AFRC = \$47.345M)

FY09 procured 16 A kits for AFRC and 8 B kits.

FY09 OCO procured 20 A & B kits and installs (8 AFRC, 12 ANG).

FY09 Totals (\$79.096M C-130 Mod including OCO + \$54.985M AFRC = \$134.054M)

FY10 \$1.033 (AFRC PE 0504343F) will procure potential engineering changes and program management costs. FY10 also includes the Congressional add (\$33M) for 4 MC-130P A & B kits and installs (AFSOC, Active).

FY10 OCO procures 40 A kits and installs and 19 B kits (broken out below).

FY10 Totals (\$1.033M AFRC + \$33M Congressional add + \$86.4M OCO = \$120.433M)

FY11 \$1.019 (AFRC PE 0504343F) procures potential engineering changes and program management costs.

FY11 OCO \$132M procures 28 A kits and installs and 26 B kits (as broken out below). \$15.3M of the OCO is for installs.

FY11 Totals (\$1.019M AFRC + \$132M OCO = \$133.019M)

FY 12 OCO request of \$57.841M procures 25 B kits (5 for AFRC and 20 for ANG, note that Group B Equipment will be utilizing SLTAs coming off of C-17 Aircraft). An additional \$97M procures 26 A and B kits and installs for AFSOC (17 AC-130Us and 9 MC-130Hs).

FY12 Totals (\$154.841M OCO)

LAIRCM is a "buy-to-budget" program.

This program has associated Research Development Test and Evaluation (RDT&E) in PE 0401134F. Two C-130s were modified with RDT&E funding (1 C-130H in FY03 and 1 AC-130H in FY06). Two additional C-130s will be modified with RDT&E funding in FY12 (1 AC-130U and 1 MC-130H).

30 SLTA B kits will be provided for C-130 installs from the C-17 LAIRCM GLTA upgrade with the remaining Group B being purchased from the FY 12 OCO request.

FY 2009 funding totals include \$71.5M of appropriated supplemental Overseas Contingency Operations funding.

FY 2010 funding totals include \$86.4M for Overseas Contingency Operations.

FY 2011 funding totals include \$132M for Overseas Contingency Operations.

FY 2012 funding totals include \$154.841 for Overseas Contingency Operations.

"INSTALLATION OF HARDWARE" and the "Installation Schedule" section are aligned with Group A installs.

**GROUP A PROCUREMENT & INSTALL**

C-130 Kit Procurement - Includes AFSOC aircraft

	Prior	FY10	FY11	FY 12	TOTAL
Active	34	18	0	26	78
Reserve	84	0	0	0	84
ANG	75	26	28	0	129

**Kit Install**

	Prior	FY10	FY11	FY 12	FY 13	FY14	TOTAL
Active	30	0	8	5	9	26	78
Reserve	22	20	31	11	0	0	84
ANG	63	0	12	26	28	0	129

**GROUP B PROCUREMENT & INSTALL**

C-130 Kit Procurement - Includes AFSOC AC

	Prior	FY10	FY11	FY 12	FY 13	FY 14	TOTAL
Active	31	21	0	26	0	0	78
Reserve	40	2	0	5	0	0	47
ANG	55	0	26	20	0	0	101

**Kit Install**

	Prior	FY10	FY 11	FY 12	FY 13	FY 14	TOTAL
Active	14	17	21	0	0	26	78
Reserve	33	7	2	0	5	0	47
ANG	42	13	26	0	20	0	101

Aircraft Breakdown Group B: Active 78, Reserve 47, ANG 101, Total 226  
 "Aircraft Breakdown" below reflects Group A

Aircraft Breakdown: ACTIVE 78, RESERVE 84, ANG 129, TOTAL 291

**Development Status**

Development on the basic C-130 is complete. Development on the AC-130U will be complete in FY12.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	34	10.062	18	4.035					26	9.421		

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
INSTALL KITS Group A (Guard)	75	22.998	26	7.494	28	9.977				0.000		
INSTALL KITS Group A (Reserve)	84	22.657								0.000		
TOTAL: INSTALL KITS	193	55.717	44	11.529	28	9.977			26	9.421		
KITS NONRECUR Group A (Active)	[0]	2.836										
KITS NONRECUR Group A (Guard)	[0]											
KITS NONRECUR Group A (Reserve)	[0]											
TOTAL: KITS NONRECUR	[0]	2.836										
EQUIPMENT Group B (Active)	[31]	103.169	[21]	72.727					[26]	69.614		
EQUIPMENT Group B (Guard)	[55]	132.531			[26]	77.887			[20]	38.788		
EQUIPMENT Group B (Reserve)	[40]	66.653	[2]	8.556					[5]	14.813		
TOTAL: EQUIPMENT	[126]	302.353	[23]	81.283	[26]	77.887			[51]	123.215		
EQUIP NONREC Group B (Active)	[0]											
EQUIP NONREC Group B (Guard)	[0]											
EQUIP NONREC Group B (Reserve)	[0]											
TOTAL: EQUIP NONREC	[0]											
CHANGE ORDERS		23.845		8.000		2.726				6.392		
DATA												
SIM/TRAINER												
SUPPORT- EQUIP		3.530		0.399								
CONTRACTOR SUPPORT		2.653		0.238		0.131						
SPARES		78.930		2.014		19.575				2.088		
SE/PM		12.253		1.027		2.531						
ICS		2.059										
TRAINING		0.554		0.045								
OGC		4.756		1.731		3.700						
OTHER		0.116				1.957						
DEPOT STAND-UP		5.500		3.000								
INSTALLATION OF HARDWARE												
FY-03 (Guard)	2 KITS	[2]	2.031									
FY-04 (Active)	7 KITS	[7]	2.295									
FY-04 (Guard)	6 KITS	[6]	2.874									
FY-05 (Active)	1 KITS	[1]	0.196									

**Projected Financial Plan Continued**

		<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-05 (Guard)	43 KITS	[43]	8.036										
FY-06 (Active)	7 KITS	[7]	2.292										
FY-06 (Reserve)	6 KITS	[6]	1.964										
FY-07 (Active)	8 KITS	[8]	1.562										
FY-07 (Guard)	12 KITS	[12]	2.343										
FY-07 (Reserve)	50 KITS	[16]	16.788	[20]		[14]							
FY-08 (Active)	7 KITS	[7]	2.733										
FY-09 (Active)	4 KITS		1.365			[4]							
FY-09 (Guard)	12 KITS		4.094			[12]							
FY-09 (Reserve)	28 KITS		9.553			[17]		[11]					
FY-10 (Active)	18 KITS				3.908	[4]		[5]				[9]	
FY-10 (Guard)	26 KITS				7.259			[26]					
FY-11 (Guard)	28 KITS						14.535					[28]	
FY-12 OCO (Active)	26 KITS										13.725		
TOTAL INSTALL		115	58.125	20	11.167	51	14.535	42			13.725	37	
TOTAL COST (BP-1100)		193	553.225	44	120.433	28	133.019			26	154.841		
(Totals may not add due to rounding)													
INSTALLATION QTY		115		20		51		42				37	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									78	23.518
INSTALL KITS Group A (Guard)									129	40.469
INSTALL KITS Group A (Reserve)									84	22.657
TOTAL: INSTALL KITS									291	86.644
KITS NONRECUR Group A (Active)									[0]	2.836
KITS NONRECUR Group A (Guard)									[0]	
KITS NONRECUR Group A (Reserve)									[0]	
TOTAL: KITS NONRECUR									[0]	2.836
EQUIPMENT Group B (Active)									[78]	245.510
EQUIPMENT Group B (Guard)									[101]	249.206
EQUIPMENT Group B (Reserve)									[47]	90.022
TOTAL: EQUIPMENT									[226]	584.738
EQUIP NONREC Group B (Active)									[0]	
EQUIP NONREC Group B (Guard)									[0]	
EQUIP NONREC Group B (Reserve)									[0]	
TOTAL: EQUIP NONREC									[0]	
CHANGE ORDERS										40.963
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										3.929
CONTRACTOR SUPPORT										3.022
SPARES										102.607
SE/PM										15.811
ICS										2.059
TRAINING										0.599
OGC										10.187
OTHER										2.073
DEPOT STAND-UP										8.500

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>		
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	
INSTALLATION OF HARDWARE											
FY-03 (Guard)	2								[2]	2.031	
FY-04 (Active)	7								[7]	2.295	
FY-04 (Guard)	6								[6]	2.874	
FY-05 (Active)	1								[1]	0.196	
FY-05 (Guard)	43								[43]	8.036	
FY-06 (Active)	7								[7]	2.292	
FY-06 (Reserve)	6								[6]	1.964	
FY-07 (Active)	8								[8]	1.562	
FY-07 (Guard)	12								[12]	2.343	
FY-07 (Reserve)	50								[50]	16.788	
FY-08 (Active)	7								[7]	2.733	
FY-09 (Active)	4								[4]	1.365	
FY-09 (Guard)	12								[12]	4.094	
FY-09 (Reserve)	28								[28]	9.553	
FY-10 (Active)	18								[18]	3.908	
FY-10 (Guard)	26								[26]	7.259	
FY-11 (Guard)	28								[28]	14.535	
FY-12 OCO (Active)	26								[26]	13.725	
TOTAL INSTALL		26								291	97.552
TOTAL COST (BP-1100) (Totals may not add due to rounding)										291	961.518
INSTALLATION QTY		26								291	

Method of Implementation: Contractor Facility

Initial Lead Time: 9 Months

Follow-On Lead Time: 7 Months

**Milestones**

	<u>FY-01</u>	<u>FY-02</u>	<u>FY-03</u>	<u>FY-04</u>	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>
Contract Date (Month/CY)			12/02	10/03	11/04	11/05	11/06	01/08	01/09	01/10	01/11	01/12
Delivery Date (Month/CY)			09/03	05/04	06/05	06/06	06/07	08/08	08/09	08/10	08/11	08/12

**Installation Schedule**

	<u>FY-01</u>				<u>FY-02</u>				<u>FY-03</u>				<u>FY-04</u>				<u>FY-05</u>				<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>							
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input											1				3	4	2	2	3	2	3	6	7	8	5	5	5	5	4	6	5	5				
Output												1			3	4	2	2	3	2	3	6	7	8	5	5	5	5	5	4	6	5				
	<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>											
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Input	9	8	9	8	4	4	3	9	14	14	14	9	10	12	11	9					10	9	9	9	9	9	9	8								
Output	5	9	8	9	8	4	4	3	9	14	14	14	9	10	12	11					9	10	9	9	9	9	9	8								

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. MOD V IFF MN- 9139

CLC: C-130 Class: P

Models of Systems Affected: C-130

Center: WR-ALC

PE 0401115F

Team MOBIL

**Description/Justification**

Mode V is an upgrade to the Identify Friend or Foe (IFF) secure aircraft identification system. Mode V will replace Mode 4 because the technology used to keep Mode 4 transmissions secure is outdated and could be compromised by personnel or organizations that don't have a need to know or the proper security classification, and aren't designated as allies of the United States. This modification will require hardware, firmware, software and wiring development and/or replacement. Affected aircraft include C-130Hs, LC-130Hs, HC-130Ns, HC-130Ps, AC-130Hs, AC-130Us, MC-130Hs, MC-130Ps, and MC-130W aircraft.

This is a New Start in FY12.

FY 2012 (BY) Narrative: Procures 298 production kits. Impact if not funded: Aircraft may be compromised as secure transmissions via Mode 4 are outdated.

Aircraft Breakout: ACTIVE: 111, RESERVE:155, ANG:89, TOTAL:355

Aircraft Breakdown: ACTIVE 111, RESERVE 155, ANG 89, TOTAL 355

**Development Status**

N/A

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)							90	0.450			13	0.065
INSTALL KITS Group A (Guard)							121	0.605			29	0.145
INSTALL KITS Group A (Reserve)							59	0.295			20	0.100
TOTAL: INSTALL KITS							270	1.350			62	0.310
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)							[90]	3.690			[13]	0.533
EQUIPMENT Group B (Guard)							[121]	4.961			[29]	1.189
EQUIPMENT Group B (Reserve)							[59]	2.419			[20]	0.820
TOTAL: EQUIPMENT							[270]	11.070			[62]	2.542
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA								0.461				0.324
SIM/TRAINER												
SUPPORT- EQUIP												
OGC								0.351				0.344
INSTALLATION OF HARDWARE												
FY-12 (Active) 90 KITS							[52]	1.560			[35]	1.050
FY-12 (Guard) 121 KITS							[87]	2.610			[34]	1.020
FY-12 (Reserve) 59 KITS							[25]	0.750			[25]	0.750
FY-13 (Active) 13 KITS												
FY-13 (Guard) 29 KITS											[6]	0.180
FY-13 (Reserve) 20 KITS												
FY-14 (Active) 4 KITS												
FY-14 (Reserve) 4 KITS												
FY-15 (Active) 4 KITS												
FY-15 (Guard) 5 KITS												
FY-15 (Reserve) 6 KITS												
TOTAL INSTALL							164	4.920			100	3.000
TOTAL COST (BP-1100)							270	18.152			62	6.520
(Totals may not add due to rounding)												
INSTALLATION QTY							164				100	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	4	0.020	4	0.020					111	0.555
INSTALL KITS Group A (Guard)			5	0.025					155	0.775
INSTALL KITS Group A (Reserve)	4	0.020	6	0.030					89	0.445
TOTAL: INSTALL KITS	8	0.040	15	0.075					355	1.775
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)	[4]	0.164	[4]	0.164					[111]	4.551
EQUIPMENT Group B (Guard)			[5]	0.205					[155]	6.355
EQUIPMENT Group B (Reserve)	[4]	0.164	[6]	0.246					[89]	3.649
TOTAL: EQUIPMENT	[8]	0.328	[15]	0.615					[355]	14.555
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										0.785
SIM/TRAINER										
SUPPORT- EQUIP										
OGC		0.125		0.250						1.070
INSTALLATION OF HARDWARE										
FY-12 (Active)	90 KITS	[3]	0.090						[90]	2.700
FY-12 (Guard)	121 KITS								[121]	3.630
FY-12 (Reserve)	59 KITS	[9]	0.270						[59]	1.770
FY-13 (Active)	13 KITS	[13]	0.390						[13]	0.390
FY-13 (Guard)	29 KITS	[23]	0.690						[29]	0.870
FY-13 (Reserve)	20 KITS	[16]	0.480	[4]	0.120				[20]	0.600

**Continued**

		<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-14 (Active)	4 KITS	[4]	0.120							[4]	0.120
FY-14 (Reserve)	4 KITS			[4]	0.120					[4]	0.120
FY-15 (Active)	4 KITS			[4]	0.120					[4]	0.120
FY-15 (Guard)	5 KITS			[5]	0.150					[5]	0.150
FY-15 (Reserve)	6 KITS			[6]	0.180					[6]	0.180
TOTAL INSTALL		68	2.040	23	0.690					355	10.650
TOTAL COST (BP-1100)		8	2.533	15	1.630					355	28.835
(Totals may not add due to rounding)											
INSTALLATION QTY		68		23						355	

Method of Implementation: Depot Field Team

Initial Lead Time: 6 Months

Follow-On Lead Time: 6 Months

**Milestones**

	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>
Contract Date (Month/CY)		10/11	10/12	10/13	10/14	10/15
Delivery Date (Month/CY)		04/12	04/13	04/14	04/15	04/16

**Installation Schedule**

Quarter	<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input							82	82					25	25	25	25	17	17	17	17	6	6	6	5
Output							82	82					25	25	25	25	17	17	17	17	6	6	6	5

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Armor Plate MN- 9146

CLC: C-130 Class: P

Models of Systems Affected: C-130H

Center: WR-ALC

PE 0401115F

Team MOBIL

**Description/Justification**

C-130s are being tasked to operate in an increasingly lethal environment. Current C-130 armor is only capable of protecting the aircrew and sensitive areas of the aircraft against small arms fire (7.62mm). The majority of Anti-Aircraft Artillery (AAA) threats in areas where C-130s are currently required to fly are of a higher caliber weapon (.50 cal/12.7mm). Thus, current armor is inadequate for protecting the crew from the majority of these threats. Additionally, armor being offered by civilian companies is lighter than existing C-130 armor, provides better protection, is easier to install and requires less maintenance. Currently, crews are using tactics to remain out of the higher caliber weapon engagement zones to the maximum extent possible until the airdrop or air-land portion of the mission requires descent to a lower altitude. Without the upgraded armor, aircrews will continue to modify tactics to minimize the chances of being engaged by the lethal 12.7mm weapon systems. This may include airdropping from higher altitudes (causing less accurate airdrops) or limiting operations around airfields that have a proven threat from these anti-aircraft weapon systems.

Failure to upgrade the current armor exposes the crew and aircraft to the possibility of injury and jeopardizes mission success. C-130 aircraft and aircrew remain vulnerable to an array of commonly held weapons.

FY 2012 (BY) OCO Narrative: Funds 36 production installation kits. Impact if not funded: Current armor exposes the crew and aircraft to the possibility of injury and jeopardizes mission success. C-130 aircraft and aircrew remain vulnerable to an array of commonly held weapons.

Aircraft Breakdown: ACTIVE 0, RESERVE 42, ANG 0, TOTAL 42

**Development Status**

None

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)												
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)					[5]	1.250			[36]	9.000		
TOTAL: INSTALL KITS					[5]	1.250			[36]	9.000		
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)					[1]	0.840						
TOTAL: KITS NONRECUR					[1]	0.840						
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA						0.250						
SIM/TRAINER												
SUPPORT- EQUIP												
OGC						0.160				0.095		
PMA										0.105		
<hr/>												
TOTAL COST (BP-1100)						2.500				9.200		
(Totals may not add due to rounding)												
INSTALLATION QTY												

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)									[41]	10.250
TOTAL: INSTALL KITS									[41]	10.250
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)									[1]	0.840
TOTAL: KITS NONRECUR									[1]	0.840
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										0.250
SIM/TRAINER										
SUPPORT- EQUIP										
OGC										0.255
PMA										0.105
<hr/>										
TOTAL COST (BP-1100)										11.700
(Totals may not add due to rounding)										
INSTALLATION QTY								1		1

Method of Implementation: Org/Intermediate  
 Initial Lead Time: 12 Months

Follow-On Lead Time: 12 Months

**Milestones**

	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>
Contract Date (Month/CY)	11/10	11/11	
Delivery Date (Month/CY)		11/11	11/12

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications					P-1 LINE ITEM NOMENCLATURE: C-130Intel				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$0.000	\$14.863	\$3.593	\$4.600	\$8.193	\$7.163	\$6.440	\$6.617	\$6.736

This line item funds Military Intelligence Program modifications to the C-130 and Special Mission C-130 aircraft. Prior to FY 2011, funding for the ANG Senior Scout modification was budgeted in the "C-130" budget line item.

The program funding includes reductions for efficiencies that are not intended to impact program content. The efficiencies reductions total \$0.43M in FY12.

Supplemental Funding:

- FY2011 funding totals include \$10.9M requested for Overseas Contingency Operations.

2010	2011	2012	2012OCO	2012Tot	2013	2014	2015	2016
AFR 0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.00	0.00
ANG 0.000	14.863	3.593	4.600	8.193	7.163	6.440	6.617	6.736

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P-S	SCOUT	ANG SENIOR SCOUT	0.0	14.9	3.6	4.6	8.2	7.2	6.4	6.6	6.7	0.0	50.0
<b>TOTAL FOR CLASS P-S</b>			0.0	14.9	3.6	4.6	8.2	7.2	6.4	6.6	6.7	0.0	50.0
<b>TOTAL FOR WEAPON SYSTEM C-130Intel</b>			0.0	14.9	3.6	4.6	8.2	7.2	6.4	6.6	6.7	0.0	50.0

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. ANG SENIOR SCOUT MN- SCOUT

CLC: C-130Intel Class: P-S

Models of Systems Affected: multiple

Center: ASC - Wright Patterson AFB, OH

PE 0503115F

Team INFO

**Description/Justification**

SENIOR SCOUT is an Intelligence, Surveillance and Reconnaissance (ISR) suite of equipment configured in a roll-on/roll-off shelter/capsule installed in slightly modified C-130 Super E/H/H1/H2/H3 aircraft with modification kits managed by Big Safari. SENIOR SCOUT has begun efforts to be carried on C-130J versions with requisite studies and engineering changes to SENIOR SCOUT modification kits. The system provides direct Signals Intelligence support to local air and ground component commanders and to national command authorities and various intelligence agencies via communication "reachback". It is a flexible, low profile capability adaptable to Strategic, Theater, Tactical, and Counter Drug operations, and Military Operations Other Than War.

SENIOR SCOUT was fielded in FY89 and has been historically maintained/sustained by operations and maintenance funds. To extend the life of the sensor suite, obsolete hardware and software must continue to be replaced. Certain mandated interoperability and communications structures must also be complied with. These funds provide for the non-recurring engineering, fabrication and installation of four (4) shelter update kits, two (2) SATCOM groundstations, communication and equipment suites, sensors, and processing upgrades supporting COCOM critical collection requirements. SENIOR SCOUT is operated by the 169th Intelligence Squadron, Salt Lake City, UT ANG.

All funding for the SENIOR SCOUT program is programmed, managed and executed under the guidelines of the USD/I Military Intelligence Program (MIP) by NGB/A2 for USAF/A2. This line item funds MIP modifications to the C-130 and Special Mission C-130 aircraft. Prior to FY2011, funding for the ANG SENIOR SCOUT modification was budgeted in the "C-130" budget line item.

FY12 Buy Year Narrative: Buy year funding is program baseline for special signal collection system kit procurements and installations, system infrastructure upgrades, and national tactical integration efforts.

FY12 OCO Requirements Narrative: Provides special processing capabilities and collection receivers to exploit Signals of Interest (SOI) that are tactically relevant to theater commanders providing critical intelligence and direct support to troops. Provides improvement of special signals collection subsystems in order to provide critical intelligence and direct support of troops in contact. Increase in total capability will allow for greater ability to cross-cue, geo-locate, and disseminate critical information in the timeliest manner. The background spectral search subsystem will search the RF spectrum for any active signals of interest, identify the emitter and provide location data. The distributed precise time reference subsystem enhances the geolocation data by an order of magnitude.

Aircraft Breakdown: ACTIVE 0, RESERVE 0, ANG 13, TOTAL 13

**Development Status**

N/A

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)												
INSTALL KITS Group A (Guard)			[0]		[0]				0.000		[0]	0.000
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS			[0]		[0]				0.000		[0]	0.000
KITS NONRECUR Group A (Active)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
KITS NONRECUR Group A (Guard)			[0]						[3]	4.600		
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR			[0]						[3]	4.600		
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS			[0]	0.000	[2]	3.963	[2]	3.593	[0]	0.000	[2]	7.163
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
CONGRESSIONAL				0.000								
FY11 OCO Request					[2]	10.900						
OTHER												
INSTALLATION OF HARDWARE												
TOTAL INSTALL												
TOTAL COST (BP-1100)				0.000		14.863		3.593		4.600		7.163
(Totals may not add due to rounding)												
INSTALLATION QTY			1		3		1		3		1	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)	[0]	0.000	[0]	0.000	[0]	0.000			[0]	0.000
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	[0]	0.000	[0]	0.000	[0]	0.000			[0]	0.000
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)									[3]	4.600
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									[3]	4.600
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS	[2]	6.440	[2]	6.617	[2]	6.736	0	0.000	[12]	34.512
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
CONGRESSIONAL										0.000
FY11 OCO Request									[2]	10.900
OTHER										
INSTALLATION OF HARDWARE										
TOTAL INSTALL										
TOTAL COST (BP-1100)		6.440		6.617		6.736		0.000		50.012
(Totals may not add due to rounding)										
INSTALLATION QTY	2		1		1		2		15	

Method of Implementation: Combination

Initial Lead Time: 9 Months

Follow-On Lead Time: 9 Months

**Milestones**

	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>
Contract Date (Month/CY)	08/10	01/11	03/12	02/13	01/14	02/15	02/16	02/17	
Delivery Date (Month/CY)	05/11	10/11	12/12	11/13	10/14	11/15	11/16	11/17	

**Installation Schedule**

	<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>							
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input							1				2	1			1				1	1			1	1			1				1				1	
Output							1				1		1	1		1					1	1	1	1					1						1	
	<u>FY-16</u>				<u>FY-17</u>				<u>FY-18</u>				<u>FY-19</u>				<u>FY-20</u>				<u>FY-21</u>				<u>FY-22</u>				<u>FY-23</u>							
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input		1				1		1																												
Output		1				1		1				1																								

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications					P-1 LINE ITEM NOMENCLATURE: C-130J				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$8.501	\$80.205	\$38.174	\$27.983	\$66.157	\$48.995	\$49.415	\$70.438	\$71.464

FY12 funding totals include \$27.983M requested for Overseas Contingency Operations.

Totals include funding for PRCP Program Number 220, C-130J.

The C-130J is a medium-size transport aircraft capable of performing a variety of combat delivery (tactical airlift) operations across a broad range of mission environments. The C-130J aircraft, with its extended (by 15 ft) fuselage, provides additional cargo carrying capacity for the USAF combat delivery mission compared with legacy C-130E/Hs and the C-130J (short).

Other variants of the USAF C-130J fleet are all short-bodied aircraft and include the EC-130J (airborne psychological operations), WC-130J (weather reconnaissance), HC-130J (combat search and rescue), MC-130J (special operations), and the AC-130J (close air support and armed reconnaissance).

As of 1 Jan 11 there are 90 USAF C-130J Variants: C-130J - 61, C-130J (short) - 10, WC-130J - 10, EC-130J - 7, HC-130J - 2. The designed service life is 30 years and the average service life remaining is 24.3 years.

The primary modifications budgeted in FY12 are Block 7.0 Upgrade, which procures and installs Communication, Navigation and Surveillance Air Traffic Management (CNS/ATM) navigation safety and other aircraft hardware and software improvements on USAF C-130J aircraft and associated training systems; and Large Aircraft Infrared Countermeasures System (LAIRCM), which provides a significantly improved defense capability for the C-130J to counter the proliferating IR Man-Portable Air Defense Systems (MANPADS) missile threats.

"The program funding includes reductions for Overhead Reduction efficiencies that are not intended to impact program content. The efficiencies reductions total \$0.42M in FY12 for C-130J Mods and \$0.221M in FY12 for C-130J LAIRCM.

	2010	2011	2012	2013	2014	2015	2016
AFR	1.400	2.800	4.800	1.400	3.200	5.400	3.100
ANG	1.700	5.400	4.800	5.900	8.400	9.400	3.100

CLASS	MOD NR	MODIFICATION TITLE	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16	COST TO GO	TOTAL PROG
P	_1680	C-130J Tactics Training		3.3									3.3
	_2612	Avionics System and Structural Modifications	2.9	17.9	4.1		4.1	2.1					35.4
	_5222	BLOCK 8.0								0.0	25.1	518.7	543.9

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>	<b>P-1 LINE ITEM NOMENCLATURE: C-130J</b>
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<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12OCO</u>	<u>FY-12Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
	_5296	Wind Gust Brake	4.6	1.7									10.5
	_6298	C-130J BLOCK 7.0 UPGRADES			16.2		16.2	36.6	39.7	61.3	37.1	6.3	197.3
	8629	LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)		55.3	17.4	28.0	45.4	8.3	8.4	8.6	8.7		146.8
	99999X	LOW COST MODIFICATIONS	1.0	2.0	0.4		0.4	2.0	1.3	0.5	0.5		12.7
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			8.5	80.2	38.2	28.0	66.2	49.0	49.4	70.4	71.5	525.1	949.9
<b>TOTAL FOR WEAPON SYSTEM C-130J</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. C-130J BLOCK 7.0 UPGRADES MN- \_6298

CLC: C-130J Class: P

Models of Systems Affected: C-130J, C-130J (short), WC-130J, EC-130J, HC-130J, MC-130J  
Center: ASC - Wright Patterson AFB, OH

PE 0401132F

Team MOBIL

**Description/Justification**

C-130J Block 7.0 Upgrades is an FY12 new start. Block 7.0 development began in FY07 as an international cooperative effort. Modification program funds the procurement and installation of Communication, Navigation and Surveillance Air Traffic Management (CNS/ATM) navigation safety and other aircraft hardware and software improvements on USAF C-130J aircraft and associated training systems. Five additional aircraft will undergo Block 7.0 conversion with RDT&E funding: 1 C-130J, 1 C-130J(short), 1 WC-130J, 1 EC-130J and 1 HC-130J.

Aircraft Breakdown: ACTIVE 78, RESERVE 17, ANG 22, TOTAL 117

**Development Status**

Cooperative development of the Block 7.0 upgrade began in 3Q/FY07 with the United Kingdom, Italy, Australia, Canada, Denmark, and Norway. In 2010 software development issues occurred with the new Flight Management System (FMS). Program is now on schedule and flight test begins in Mar 2011.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		71.766		27.302		20.247		6.700				
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)		71.766		27.302		20.247		6.700				
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	0						17	1.700			20	2.000
INSTALL KITS Group A (Guard)	0										9	0.900
INSTALL KITS Group A (Reserve)	0						1	0.100			2	0.200
TOTAL: INSTALL KITS	0						18	1.800			31	3.100
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)	[0]						[17]	9.200			[20]	11.040
EQUIPMENT Group B (Guard)	[0]										[9]	4.970
EQUIPMENT Group B (Reserve)	[0]						[1]	0.540			[2]	1.100
TOTAL: EQUIPMENT	[0]						[18]	9.740			[31]	17.110
EQUIP NONREC Group B (Active)	[0]											
EQUIP NONREC Group B (Guard)	[0]											

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Reserve)	[0]											
TOTAL: EQUIP NONREC	[0]											
CHANGE ORDERS												
DATA												
SIM/TRAINER							[7]	4.490			[2]	1.300
SUPPORT- EQUIP								0.183				2.450
RETROFIT KITS											[5]	3.260
RETROFIT												
SIM/TRAINER											[7]	2.430
SPARES											[12]	6.960
Mission Support												
INSTALLATION OF HARDWARE												
FY-12 (Active)			17 KITS									
FY-12 (Reserve)			1 KITS									
FY-13 (Active)			20 KITS									
FY-13 (Guard)			9 KITS									
FY-13 (Reserve)			2 KITS									
FY-14 (Active)			16 KITS									
FY-14 (Reserve)			11 KITS									
FY-15 (Active)			20 KITS									
FY-15 (Guard)			8 KITS									
FY-15 (Reserve)			8 KITS									
FY-16 (Active)			5 KITS									
TOTAL INSTALL												
TOTAL COST (BP-1100)		0					18	16.213			31	36.610
(Totals may not add due to rounding)												
INSTALLATION QTY												

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										126.015
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										126.015
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	16	1.600	20	2.000	5	0.500			78	7.800
INSTALL KITS Group A (Guard)	0	0.000	8	0.800					17	1.700
INSTALL KITS Group A (Reserve)	11	1.100	8	0.800					22	2.200
TOTAL: INSTALL KITS	27	2.700	36	3.600	5	0.500			117	11.700
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)	[16]	9.010	[20]	11.480	[5]	2.930			[78]	43.660
EQUIPMENT Group B (Guard)	[0]	0.000	[8]	4.590					[17]	9.560
EQUIPMENT Group B (Reserve)	[11]	6.190	[8]	4.590					[22]	12.420
TOTAL: EQUIPMENT	[27]	15.200	[36]	20.660	[5]	2.930			[117]	65.640
EQUIP NONREC Group B (Active)									[0]	
EQUIP NONREC Group B (Guard)									[0]	
EQUIP NONREC Group B (Reserve)									[0]	
TOTAL: EQUIP NONREC									[0]	
CHANGE ORDERS										
DATA										
SIM/TRAINER			[6]	4.050	[6]	4.110			[21]	13.950
SUPPORT- EQUIP		1.710		5.590		2.490		0.360		12.783
RETROFIT KITS			[21]	14.070	[4]	2.740			[30]	20.070
RETROFIT	[5]	1.780			[21]	8.010	4	1.590	[30]	11.380
SIM/TRAINER	[2]	0.720			[6]	2.340	6	2.380	[21]	7.870
SPARES			[6]	3.400					[18]	10.360
Mission Support										
INSTALLATION OF HARDWARE										
FY-12 (Active)	17 KITS	[17]	6.102						[17]	6.102
FY-12 (Reserve)	1 KITS	[1]	0.360						[1]	0.360

**Continued**

		<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-13 (Active)	20 KITS	[20]	7.178							[20]	7.178
FY-13 (Guard)	9 KITS	[9]	3.230							[9]	3.230
FY-13 (Reserve)	2 KITS	[2]	0.720							[2]	0.720
FY-14 (Active)	16 KITS			[16]	5.900					[16]	5.900
FY-14 (Reserve)	11 KITS			[11]	4.060					[11]	4.060
FY-15 (Active)	20 KITS					[20]	7.780			[20]	7.780
FY-15 (Guard)	8 KITS					[8]	3.110			[8]	3.110
FY-15 (Reserve)	8 KITS					[8]	3.110			[8]	3.110
FY-16 (Active)	5 KITS							5	1.990	[5]	1.990
TOTAL INSTALL		49	17.590	27	9.960	36	14.000	5	1.990	117	43.540
TOTAL COST (BP-1100)		27	39.700	36	61.330	5	37.120		6.320	117	197.293
(Totals may not add due to rounding)											
INSTALLATION QTY		49		27		36		5		117	

Method of Implementation: Depot

Initial Lead Time: 18 Months

Follow-On Lead Time: 18 Months

**Milestones**

	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>
Contract Date (Month/CY)							06/12	12/12	12/13	12/14	12/15
Delivery Date (Month/CY)							12/13	06/14	06/15	06/16	06/17

**Installation Schedule**

Quarter	<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																
Output																																

  

Quarter	<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>				<u>FY-17</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input					12	12	12	13	7	7	7	6	9	9	9	9	5			
Output					12	12	12	13	7	7	7	6	9	9	9	9	5			

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM) MN- 8629  
Models of Systems Affected: C-130J Center: ASC - Wright Patterson AFB, OH

CLC: C-130J Class: P  
PE 0401134F Team MOBIL

**Description/Justification**

The Large Aircraft Infrared Countermeasures (LAIRCM) system provides a significantly improved defensive capability for the C-130J to counter the proliferating Infrared (IR) Man-Portable Air Defense Systems (MANPADS) missile threats. This system is fully automatic following power-up and consists of Group A aircraft modification kits and Group B equipment. The LAIRCM system [AN/AAQ-24(V)] consists of 5 ultra-violet (UV) Missile Warning Sensors (MWS), 2 Guardian Laser Transmitter Assemblies (GLTA)/Small Laser Transmitter Assemblies (SLTA), a colorless eye-safe multiband laser, Control Indicator Unit (CIU), and a system processor to detect, track, and counter incoming IR missiles.

The "Change Orders" line includes Diminishing Manufacturing Sources (DMS) costs for the identification, review and monitoring of items with high DMS risk potential, classification of identified items according to criticality, identification of alternatives for items having high DMS risks, and non-recurring engineering (NRE)/replacement costs for DMS components. Additionally, "Change Orders" include NRE/replacement costs for equipment updates to increase reliability, availability, and maintainability of LAIRCM Group B components as identified during the fiscal year.

NOTES:

- FY 09 OCO Bridge funding procured 2 Grp A and 2 Grp B SLTA kits for EC-130J (ANG) - Installs in FY12.
- FY11 procures 6 Grp A and 6 Grp B (3 Active, 1 Reserve, 2 ANG) - Installs in FY12.
- FY 12 procures 2 Grp A and 2 Grp B kits (1 Reserve and 1 ANG) plus 6 installs - Installs in FY13.
- FY 12 OCO procures 5 Grp A and 5 Grp B kits (Active) and installs.
- FY 13 procures 1 Grp A and 1 Grp B (Active) plus 7 installs - Installs in FY14.
- FY 14 procures 2 Grp A and 2 Grp B (Active) plus 1 install - Installs in FY15.
- FY 15 procures 2 Grp A and 2 Grp B (Active) plus 2 installs - Installs in FY16.
- FY 16 procures 2 Grp A and 2 Grp B (Active) plus 2 installs - Installs in FY 17.

LAIRCM is a "buy-to-budget" program. The FY09 supplemental "Bridge" funding was early to need as the baseline C-130J RDT&E effort will not be completed until FY11. The plan is to use these FY09 funds to buy two EC-130J kits and installs when the first C-130J kits are procured in FY11. Therefore, these two FY09-funded kits will not be installed until FY12.

This program has associated Research, Development, Test & Evaluation (RDT&E) funding in PE 0401134F. One C-130J will be modified using RDT&E funding.

FY 2009 funding totals include \$12M of appropriated supplemental "Bridge" funding and \$0M of appropriated supplemental Overseas Contingency Operations funding.  
FY 2010 funding totals include \$0M for Overseas Contingency Operations.  
FY 2011 funding totals include \$0M for Overseas Contingency Operations.

"INSTALLATION OF HARDWARE" and the "Installation Schedule" section are aligned with Group A installs.

GROUP A & B

	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	Total
Active	0	0	3	5	1	2	2	2	15
Reserve	0	0	1	1	0	0	0	0	2
ANG	2	0	2	1	0	0	0	0	5
Kit install	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	Total
Active	0	0	0	3	5	1	2	2	13
Reserve	0	0	0	1	1	0	0	0	2
ANG	0	0	0	4	1	0	0	0	5

Aircraft Breakdown: ACTIVE 15, RESERVE 2, ANG 5, TOTAL 22

**Development Status**

LAIRCM development of the C-130J platform will commence with contract award with RDT&E funds in PE 0401134F in FY 09 and will continue into FY 11. First production kit buy will be in FY 11. The C-130J LAIRCM system will incorporate the GLTA and the AAR-54 MWS.

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)	[1]	8.269		11.571		4.544						
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)	[1]	8.269		11.571		4.544						
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	0				3	1.349			5	2.289	1	0.466
INSTALL KITS Group A (Guard)	2	0.899			2	0.899	1	0.458				
INSTALL KITS Group A (Reserve)	0				1	0.450	1	0.458				
TOTAL: INSTALL KITS	2	0.899			6	2.698	2	0.916	5	2.289	1	0.466
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)	[0]				[3]	7.992			[5]	18.550	[1]	3.643
EQUIPMENT Group B (Guard)	[2]	5.830			[2]	5.102	[1]	2.644				
EQUIPMENT Group B (Reserve)	[0]				[1]	3.000	[1]	2.644				
TOTAL: EQUIPMENT	[2]	5.830			[6]	16.094	[2]	5.288	[5]	18.550	[1]	3.643
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)	[0]											
TOTAL: EQUIP NONREC	[0]											
CHANGE ORDERS		0.231				5.034		0.192				1.033
DATA												
SIM/TRAINER												
SUPPORT- EQUIP		0.437				0.438						
INITIAL SPARES		3.012				20.579		6.859		5.768		1.376
OTHER												
TRAINING		0.044				0.045						
ICS		0.204										
CONTRACTOR SUPPORT		0.231				0.241		0.272				0.032
SE/PM		0.462				2.542		1.434				0.323
DEPOT STAND-UP						5.210						

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
PROGRAM MNGMT		0.154				2.458		0.846				0.862
INSTALLATION OF HARDWARE												
FY-09 (Guard)	2 KITS	0.496					[2]					
FY-11 (Active)	3 KITS						[3]	0.811				
FY-11 (Guard)	2 KITS						[2]	0.540				
FY-11 (Reserve)	1 KITS						[1]	0.270				
FY-12 (Guard)	1 KITS										[1]	0.275
FY-12 (Reserve)	1 KITS										[1]	0.275
FY-12 OCO (Active)	5 KITS								1.376		[5]	
FY-13 (Active)	1 KITS											
FY-14 (Active)	2 KITS											
FY-15 (Active)	2 KITS											
FY-16 (Active)	2 KITS											
TOTAL INSTALL		0.496					8	1.621		1.376	7	0.550
TOTAL COST (BP-1100)	2	12.000			6	55.339	2	17.428	5	27.983	1	8.285
(Totals may not add due to rounding)												
INSTALLATION QTY							8				7	

## Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)									[1]	24.384
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)									[1]	24.384
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	2	0.949	2	0.966	2	1.020			15	7.039
INSTALL KITS Group A (Guard)									5	2.256
INSTALL KITS Group A (Reserve)									2	0.907
TOTAL: INSTALL KITS	2	0.949	2	0.966	2	1.020			22	10.202
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)	[2]	4.761	[2]	4.562	[2]	5.378			[15]	44.886
EQUIPMENT Group B (Guard)									[5]	13.576
EQUIPMENT Group B (Reserve)									[2]	5.644
TOTAL: EQUIPMENT	[2]	4.761	[2]	4.562	[2]	5.378			[22]	64.106
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)									[0]	
TOTAL: EQUIP NONREC									[0]	
CHANGE ORDERS		0.210		0.257		0.479				7.436
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										0.875
INITIAL SPARES		1.050		1.022						39.666
OTHER										
TRAINING										0.089
ICS										0.204
CONTRACTOR SUPPORT		0.005		0.010		0.010				0.801
SE/PM		0.316		0.325		0.333				5.735
DEPOT STAND-UP										5.210
PROGRAM MNGMT		0.876		0.891		0.906				6.993

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
INSTALLATION OF HARDWARE										
FY-09 (Guard) 2 KITS									[2]	0.496
FY-11 (Active) 3 KITS									[3]	0.811
FY-11 (Guard) 2 KITS									[2]	0.540
FY-11 (Reserve) 1 KITS									[1]	0.270
FY-12 (Guard) 1 KITS									[1]	0.275
FY-12 (Reserve) 1 KITS									[1]	0.275
FY-12 OCO (Active) 5 KITS									[5]	1.376
FY-13 (Active) 1 KITS	[1]	0.280							[1]	0.280
FY-14 (Active) 2 KITS			[2]	0.570					[2]	0.570
FY-15 (Active) 2 KITS					[2]	0.581			[2]	0.581
FY-16 (Active) 2 KITS							2		[2]	
TOTAL INSTALL	1	0.280	2	0.570	2	0.581	2		22	5.474
TOTAL COST (BP-1100) (Totals may not add due to rounding)	2	8.447	2	8.603	2	8.707			22	146.791
INSTALLATION QTY	1		2		2		2		22	

Method of Implementation: Contractor Facility

Initial Lead Time: 14 Months

Follow-On Lead Time: 14 Months

**Milestones**

	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>
Contract Date (Month/CY)						11/10	11/11	11/12	11/13	11/14	11/15
Delivery Date (Month/CY)						01/12	01/13	01/14	01/15	01/16	01/17

**Installation Schedule**

	<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																
Output																																

  

	<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>				<u>FY-17</u>				<u>FY-18</u>				<u>FY-19</u>				<u>FY-20</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input	3	3	1		1				1	1			1	1			1	1			1	1			1	1			1	1		
Output		3	3	1		1				1	1			1	1			1	1			1	1			1	1			1	1	

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications					P-1 LINE ITEM NOMENCLATURE: C-135				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$146.921	\$44.228	\$62.210	\$0.000	\$62.210	\$58.416	\$51.366	\$54.324	\$54.016

PY funding totals include \$16.916M appropriated for Overseas Contingency Operations.

The program funding includes reductions for Overhead Reduction efficiencies that are not intended to impact program content. The efficiencies reductions total \$ 0.163M in FY12.

The C-135 is a four engine aircraft used for long range cargo and passenger airlift and to support theater commanders. The four engine KC-135 provides air refueling through either the refueling boom or drogue. As a cargo aircraft, the KC-135 can carry six standard 463-L pallets. The primary modifications are Block 45, Visual System Replacement, and Mode 5 that enhance operational capability by improving aircraft tracking, identification and ability to operate in restrictive global civil airspace. Other modifications are budgeted to improve flight safety, reliability, and maintainability. The specific modifications budgeted and programmed are listed below.

Projected deliveries for Reserve Components (subject to Total Force demand and priority):

	2010	2011	2012	2013	2014	2015	2016
AFR	25.500	0.900	0.500	3.900	6.000	7.800	7.700
ANG	48.200	4.000	1.100	12.200	19.700	21.100	20.300

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P-S	99999A	LOW COST SAFETY MODIFICATIONS	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.2
<b>TOTAL FOR CLASS P-S</b>			0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.2
P	8653	BLOCK 45	0.0	8.4	31.1	0.0	31.1	42.7	48.6	52.1	52.5	311.3	546.7
	8654	ENHANCED MODE S	1.0	0.5									27.9
	9709	GATM Phase II	112.3	8.8									929.5
	9817	MODE 5	1.7	12.6	5.8		5.8						20.1
	9818	VOR/ILS ANTENNAE	2.0	2.8	2.7		2.7	2.1	2.4	1.9	1.1		14.9
	9819	Visual System Replacement (VSR)	11.5	9.1	21.1		21.1	12.9					54.6
	9820	APU Oil Cooler	15.9										15.9
	9821	Electronic Cabinet Covers	1.0										1.0
	99999X	LOW COST	1.4	2.0	1.5		1.5	0.7	0.4	0.3	0.4		13.1

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

P-1 SHOPP LIST ITEM NO. 66	PAGE NO. 1
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>	<b>P-1 LINE ITEM NOMENCLATURE: C-135</b>
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<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12OCO</u>	<u>FY-12Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			146.9	44.2	62.2	0.0	62.2	58.4	51.3	54.3	54.0	311.3	1623.9
<b>TOTAL FOR WEAPON SYSTEM C-135</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 66	PAGE NO. 2	
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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. BLOCK 45 MN- 8653

CLC: C-135 Class: P

Models of Systems Affected: C/KC-135

Center: OC-ALC

PE 0401218F

Team MOBIL

**Description/Justification**

Block 45 addresses obsolescence, reliability and maintainability issues currently experienced by the KC-135 Fleet. The modification includes a new Digital Flight Director (DFD), Digital Radar Altimeter (RA), Digital Autopilot (AP) and Electronic Engine Instrument Displays (EEID). Block 45 requirements are outlined in the Capability Development Document (CDD) for KC-135 Communications, Navigation, and Surveillance/Air Traffic Management (CNS/ATM) dated 21 Oct 08.

The DFD replaces the existing obsolete analog flight director (high maintenance driver) and provides a fully integrated flight guidance system and at the same time provides improved capability. The RA replaces the existing obsolete AL-101 radio altimeter (high maintenance driver) with a new state of the art digital high mean time between failure (MTBF) RA. The digital AP replaces the current obsolete analog AP system. The EEID replaces the obsolete analog engine instruments. The Air Force expects to achieve MTBF figures as follows:

Radio Altimeter - 8,462 (current 1,454)  
Digital Flight Director - 11,388 (current 899)  
Autopilot - 2,335 (current 339)  
Engine Instruments - 4,726 (current 2,336)

In addition, by replacing these components, the Air Force expects to realize approximately \$8.50M annually (or \$440M total) in cost avoidance relative to system repair costs.

Aircraft Breakdown: USAF plans to modify 416 KC-135 aircraft (412 KC-135 R/T, 1 Ice Tanker, 1 Test Tanker and 2 Open Skies) with Block 45 (DFD, AP, RA and EEID). Two of the 416 aircraft modifications are prototypes funded with 3600 (RDT&E) appropriations. Through FY16, the USAF will install Block 45 on 139 aircraft [137 with APAF 3010 (procurement) funding and 2 with 3600 (RDT&E) funding].

This program has associated Research Development Test and Evaluation funding in PE 0401218F. This program has associated initial spares funding in BA 06.

Aircraft Breakdown: ACTIVE 167, RESERVE 67, ANG 180, TOTAL 414

**Development Status**

Engineering Manufacturing Development (EMD) activities continue on schedule. Critical Design Review (CDR) completed in Aug 10.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)	[0]	15.120	[0]	9.024	[2]	20.453	[0]	6.161	[0]	0.000	[0]	0.000
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)	[0]	15.120	[0]	9.024	[2]	20.453	[0]	6.161	[0]	0.000	[0]	0.000
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	0	0.000	0	0.000	0	0.000	15	1.293	0	0.000	13	1.140
INSTALL KITS Group A (Guard)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	16	1.404
INSTALL KITS Group A (Reserve)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	5	0.439
TOTAL: INSTALL KITS	0	0.000	0	0.000	0	0.000	15	1.293	0	0.000	34	2.983

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
KITS NONRECUR Group A (Active)	[0]											
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR	[0]											
EQUIPMENT Group B (Active)	[0]	0.000	[0]	0.000	[0]	0.000	[15]	10.789	[0]	0.000	[13]	8.262
EQUIPMENT Group B (Guard)	[0]	0.000	[0]	0.000	[0]	0.000	[0]	0.000	[0]	0.000	[16]	10.168
EQUIPMENT Group B (Reserve)	[0]	0.000	[0]	0.000	[0]	0.000	[0]	0.000	[0]	0.000	[5]	3.178
TOTAL: EQUIPMENT	[0]	0.000	[0]	0.000	[0]	0.000	[15]	10.789	[0]	0.000	[34]	21.608
EQUIP NONREC Group B (Active)	[0]	0.000										
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC	[0]	0.000										
CHANGE ORDERS												
DATA								4.530				1.934
SIM/TRAINER					[2]	2.252	[10]	11.706			[7]	7.516
SUPPORT- EQUIP												
OGC						6.064		2.598				2.743
MILSTRIP												1.682
TRAINING						0.078		0.202				0.206
INSTALLATION OF HARDWARE												
FY-12 (Active)	15 KITS										[15]	4.029
FY-13 (Active)	13 KITS											
FY-13 (Guard)	16 KITS											
FY-13 (Reserve)	5 KITS											
FY-14 (Active)	17 KITS											
FY-14 (Guard)	20 KITS											
FY-14 (Reserve)	6 KITS											
FY-15 (Active)	17 KITS											
FY-15 (Guard)	20 KITS											
FY-15 (Reserve)	8 KITS											
FY-16 (Active)	17 KITS											
FY-16 (Guard)	19 KITS											

**Projected Financial Plan Continued**

		<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-16 (Reserve)	6 KITS												
FY-17 (Active)	23 KITS												
FY-17 (Guard)	26 KITS												
FY-17 (Reserve)	11 KITS												
FY-18 (Active)	23 KITS												
FY-18 (Guard)	26 KITS												
FY-18 (Reserve)	11 KITS												
FY-19 (Active)	23 KITS												
FY-19 (Guard)	27 KITS												
FY-19 (Reserve)	10 KITS												
FY-20 (Active)	19 KITS												
FY-20 (Guard)	26 KITS												
FY-20 (Reserve)	10 KITS												
TOTAL INSTALL												15	4.029
TOTAL COST (BP-1100)		0	0.000	0	0.000	0	8.394	15	31.118	0	0.000	34	42.701
(Totals may not add due to rounding)													
INSTALLATION QTY												15	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)	[0]	0.000	[0]	0.000	[0]	0.000	0	0.000	[2]	50.758
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)	[0]	0.000	[0]	0.000	[0]	0.000	[0]	0.000	[2]	50.758
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	17	1.517	17	1.545	17	1.573	88	8.506	167	15.574
INSTALL KITS Group A (Guard)	20	1.785	20	1.818	19	1.757	105	10.161	180	16.925
INSTALL KITS Group A (Reserve)	6	0.536	8	0.727	6	0.555	42	4.061	67	6.318
TOTAL: INSTALL KITS	43	3.838	45	4.090	42	3.885	235	22.728	414	38.817
KITS NONRECUR Group A (Active)									[0]	
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									[0]	
EQUIPMENT Group B (Active)	[17]	10.836	[17]	10.994	[17]	11.222	88	59.577	[167]	111.680
EQUIPMENT Group B (Guard)	[20]	12.748	[20]	12.934	[19]	12.543	105	71.175	[180]	119.568
EQUIPMENT Group B (Reserve)	[6]	3.824	[8]	5.173	[6]	3.961	42	28.444	[67]	44.580
TOTAL: EQUIPMENT	[43]	27.408	[45]	29.101	[42]	27.726	[235]	159.196	[414]	275.828
EQUIP NONREC Group B (Active)									[0]	0.000
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[0]	0.000
CHANGE ORDERS										
DATA		0.700		0.350				2.000		9.514
SIM/TRAINER					[0]	0.398			[19]	21.872
SUPPORT- EQUIP										
OGC		4.553		4.576		5.618		30.434		56.586
MILSTRIP		2.574		2.026		2.158		14.050		22.490
TRAINING		0.209								0.695
INSTALLATION OF HARDWARE										
FY-12 (Active)			15 KITS						[15]	4.029
FY-13 (Active)			13 KITS	[13]	3.550				[13]	3.550
FY-13 (Guard)			16 KITS	[16]	4.370				[16]	4.370
FY-13 (Reserve)			5 KITS	[5]	1.366				[5]	1.366

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-14 (Active)	17 KITS		[17]	4.730					[17]	4.730
FY-14 (Guard)	20 KITS		[20]	5.564					[20]	5.564
FY-14 (Reserve)	6 KITS		[6]	1.660					[6]	1.660
FY-15 (Active)	17 KITS				[17]	4.810			[17]	4.810
FY-15 (Guard)	20 KITS				[20]	5.664			[20]	5.664
FY-15 (Reserve)	8 KITS				[8]	2.266			[8]	2.266
FY-16 (Active)	17 KITS						17	4.900	[17]	4.900
FY-16 (Guard)	19 KITS						19	5.470	[19]	5.470
FY-16 (Reserve)	6 KITS						6	1.730	[6]	1.730
FY-17 (Active)	23 KITS						23	6.750	[23]	6.750
FY-17 (Guard)	26 KITS						26	7.630	[26]	7.630
FY-17 (Reserve)	11 KITS						11	3.230	[11]	3.230
FY-18 (Active)	23 KITS						23	6.870	[23]	6.870
FY-18 (Guard)	26 KITS						26	7.770	[26]	7.770
FY-18 (Reserve)	11 KITS						11	3.290	[11]	3.290
FY-19 (Active)	23 KITS						23	6.999	[23]	6.999
FY-19 (Guard)	27 KITS						27	8.216	[27]	8.216
FY-19 (Reserve)	10 KITS						10	3.043	[10]	3.043
FY-20 (Active)	19 KITS						19	5.885	[19]	5.885
FY-20 (Guard)	26 KITS						26	8.052	[26]	8.052
FY-20 (Reserve)	10 KITS						10	3.097	[10]	3.097
<b>TOTAL INSTALL</b>	<b>34</b>	<b>9.286</b>	<b>43</b>	<b>11.954</b>	<b>45</b>	<b>12.740</b>	<b>277</b>	<b>82.932</b>	<b>414</b>	<b>120.941</b>
<b>TOTAL COST (BP-1100)</b> (Totals may not add due to rounding)	<b>43</b>	<b>48.568</b>	<b>45</b>	<b>52.097</b>	<b>42</b>	<b>52.525</b>	<b>235</b>	<b>311.340</b>	<b>414</b>	<b>546.743</b>
<b>INSTALLATION QTY</b>	<b>34</b>		<b>43</b>		<b>45</b>		<b>277</b>		<b>414</b>	

Method of Implementation: Contractor Facility

Initial Lead Time: 12 Months

Follow-On Lead Time: 12 Months

**Milestones**

	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>	<u>FY-18</u>	<u>FY-19</u>	<u>FY-20</u>
Contract Date (Month/CY)						11/11	11/12	11/13	11/14	11/15	11/16	11/17	11/18	11/19
Delivery Date (Month/CY)						11/12	11/13	11/14	11/15	11/16	11/17	11/18	11/19	11/20

**Installation Schedule**

	<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>							
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																				
Output																																				
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input	8	8	9	9	10	11	11	11	11	11	12	10	10	11	11	15	15	15	15	15	15	15	15	15	15	15	15	15	18	18	19					
Output	4	8	8	9	9	10	11	11	11	11	11	12	10	10	11	11	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	19				

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. MODE 5 MN- 9817

CLC: C-135 Class: P

Models of Systems Affected: C/KC-135

Center: OC-ALC - Tinker AFB Okla City, OK

PE 0401218F

Team MOBIL

**Description/Justification**

The Mode 5 modification is a DoD mandated (Initial Operational Capability (IOC)) by 2014, Full Operational Capability ((FOC) by 2020) upgrade to the KC-135 Identify Friend or Foe (IFF) system (the primary means of aircraft identification during Air Defense operations). Mode 5 increases anti-spoofing and exploitation capabilities and lowers the possibility of aircraft and aircrew loss due to misidentification of friendly aircraft. The Mode 5 modification includes a new Mode 5 crypto appliqué module (KIV-77) and associated software upgrade to the Enhanced Surveillance (EHS) APX-119. In addition, the modification incorporates the integration of developed Automatic Dependent Surveillance Broadcast (ADS-B) software update to the Mode S enhanced surveillance system. This will be a field-level installation.

Aircraft Breakdown: 414 KC-135 R/T and 2 special purpose (Ice Tanker, Test Tanker II)

Aircraft Breakdown: ACTIVE 169, RESERVE 67, ANG 180, TOTAL 416

**Development Status**

Development complete in 2009.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)					[93]	0.205	[76]	0.217				
INSTALL KITS Group A (Guard)					[99]	0.215	[81]	0.228				
INSTALL KITS Group A (Reserve)					[37]	0.080	[30]	0.085				
TOTAL: INSTALL KITS					[229]	0.500	[187]	0.530				
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA						0.750		0.750				
SIM/TRAINER					[21]	1.500						
SUPPORT- EQUIP						0.250		0.250				
INTEGRATION				1.690		7.608		3.083				
TESTING						1.715		1.000				
SOFTWARE				0.000								
OGC				0.010		0.300		0.190				
<hr/>												
TOTAL COST (BP-1100)				1.700		12.623		5.803				
(Totals may not add due to rounding)												
INSTALLATION QTY							350				66	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									[169]	0.422
INSTALL KITS Group A (Guard)									[180]	0.443
INSTALL KITS Group A (Reserve)									[67]	0.165
TOTAL: INSTALL KITS									[416]	1.030
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										1.500
SIM/TRAINER									[21]	1.500
SUPPORT- EQUIP										0.500
INTEGRATION										12.381
TESTING										2.715
SOFTWARE										0.000
OGC										0.500
<hr/>										
TOTAL COST (BP-1100)										20.126
(Totals may not add due to rounding)										
INSTALLATION QTY									416	

Method of Implementation: Org/Intermediate

Initial Lead Time: 12 Months

Follow-On Lead Time: 12 Months

**Milestones**

	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>
Contract Date (Month/CY)			07/11	12/11
Delivery Date (Month/CY)			07/12	12/12

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Visual System Replacement (VSR) MN- 9819

CLC: C-135 Class: P

Models of Systems Affected: C/KC-135

Center: ASC - Wright Patterson AFB, OH

PE 0401897F

Team MOBIL

**Description/Justification**

Due to limitations in the current KC-135 flight simulator Visual Display System processing power and projection capabilities, the scene projected does not allow sufficient detail to duplicate all required visual references used during formation training and is insufficient to add aerodynamically correct classified threat models to support tactical aircrew training scenarios. Current high cost Cathode Ray Tube (CRT) technology requires significant maintenance manpower costs for manual visual alignments significantly degrading simulator availability. Funds will be used to purchase and install commercial off-the-shelf (COTS) hardware sub-systems aboard 19 KC-135 Operational Flight Training (OFT) simulators including: replace Image Generators (IG), replace high-powered heavy weight projector systems with low-power, low weight, auto aligning systems, upgrade display systems and visual data base imagery, and add secure site classified training capabilities.

Program funding supports the purchase of all required equipment and installations.

Aircraft Breakdown: ACTIVE 0, RESERVE 0, ANG 0, TOTAL 0

**Development Status**

N/A

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)												
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS												
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA												
SIM/TRAINER			[3]	11.538	[3]	9.140	[8]	21.057			[5]	12.860
SUPPORT- EQUIP												
INSTALLATION OF HARDWARE												
TOTAL INSTALL												
TOTAL COST (BP-1100)				11.538		9.140		21.057				12.860
(Totals may not add due to rounding)												
INSTALLATION QTY												

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS										
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										
SIM/TRAINER									[19]	54.595
SUPPORT- EQUIP										
INSTALLATION OF HARDWARE										
TOTAL INSTALL										
TOTAL COST (BP-1100)										54.595
(Totals may not add due to rounding)										
INSTALLATION QTY										

Method of Implementation: Contract Field Team  
 Initial Lead Time: 10 Months

Follow-On Lead Time: 10 Months

**Milestones**

	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>
Contract Date (Month/CY)	08/10	03/11	03/12	03/12	03/13
Delivery Date (Month/CY)	06/11	01/12	01/13	01/13	01/14

**Installation Schedule**

	<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>							
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																				
Output																																				

  

	<u>FY-16</u>				<u>FY-17</u>				<u>FY-18</u>				<u>FY-19</u>				<u>FY-20</u>				<u>FY-21</u>				<u>FY-22</u>				<u>FY-23</u>							
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																				
Output																																				

UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: CCALL</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$29.097	\$186.558	\$256.624	\$12.000	\$268.624	\$50.189	\$163.738	\$57.586	\$55.562

The program funding includes reductions for overhead reduction efficiencies that are not intended to impact program content. The efficiencies reductions total \$1.609M in FY12.

FY2011 funding total includes \$10.0M requested for Overseas Contingency Operations (OCO). The EC-130H COMPASS CALL aircraft is the USAF's wide-area coverage Airborne Electronic Attack (AEA) and Offensive Counter Information (OCI) weapon system. The mission equipment must continue to evolve to keep pace with the emerging adversary developments in new communications and sensor technology as well as the use of rapidly advancing commercial technology. Production funds are required for modification kit production (both hardware and software) and installation on each aircraft.

The EC-130H COMPASS CALL inventory includes 14 operational/mission capable aircraft (Primary Mission Aircraft Inventory), and one TC-130H flight deck trainer aircraft (Basic Aircraft Inventory).

This program has associated Research, Development, Test and Evaluation funding in PE 0207253F.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	1001	COMPASS CALL	29.1	111.6	107.3	12.0	119.3	50.2	56.0	57.6	55.6		497.5
	1002	EC15		75.0	149.3		149.3		107.7				332.0
<b>TOTAL FOR CLASS P</b>			29.1	186.6	256.6	12.0	268.6	50.2	163.7	57.6	55.6		829.5
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS</b>			0.0										0.0
<b>TOTAL FOR WEAPON SYSTEM CCALL</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 67	PAGE NO. 1	
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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. COMPASS CALL MN- 1001

CLC: CCALL Class: P

Models of Systems Affected: EC-130H/TC-130H

Center: ASC - Wright Patterson AFB, OH

PE 0207253F

Team INFO

**Description/Justification**

The EC-130H COMPASS CALL aircraft is the USAF's wide-area, airborne Command and Control Warfare/Information Operations (C2W/IO) weapon system. The mission equipment must continue to evolve to keep pace with emerging adversary developments in new communications and sensor technology as well as use of rapidly advancing commercial technology. The EC-130H COMPASS CALL program employs an incremental baseline upgrade acquisition strategy that puts capability into the warfighters hands as soon as practical and ensures each iteration of the weapon system is effective against the highest priority threats. A new Baseline of capability is fielded approximately every two to three years. Capabilities inserted into each baseline are planned in advance, based on warfighter inputs. Bi-annual Executive Management Reviews are utilized to review and "lock" Baseline content as production nears. Kits contracted for purchase and integration in a given Baseline upgrade are bought in the first year of the procurement funding cycle and are installed in the next year. Production funds are required for modification kit production (both hardware and software) and installation on each aircraft based on a Baseline upgrade cyclic schedule. Baseline 0 configuration is currently fielded and Baseline 1 fielding is ongoing. Baseline 2 will focus on reliability and sustainability improvements, significant obsolete parts replacement, weight reduction, simplification, and capability increase. Some examples are procurement of digital narrow band subsystem, counter radar subsystem, and 3rd Generation Special Purpose Emitter Array (SPEAR). As new Baselines are added, production funds are also used for avionics modifications to meet Communications, Navigation, Surveillance/Air Traffic Management (CNS/ATM) requirements and address obsolescence issues. Similarly, new Baselines will include necessary simulator modifications to ensure the simulators replicate the current aircraft configuration, and to address obsolescence issues. Due to the rapidly changing threat environment encountered during our prolonged commitment to Overseas Contingency Operations (OCO), the acquisition program manager has the authority to redirect funding as necessary to meet current stated and emerging Combatant Commander requirements through Quick Reaction Capability (QRC) kits.

Equipment includes aircraft and mission equipment retrofits based on the PDM and modification cyclic schedule. Current program of record includes the following resources: 14 EC-130H operational / mission capable aircraft (primary mission aircraft inventory or PMAI), one TC-130H flight deck trainer aircraft (basic aircraft inventory or BAI), and one COMPASS CALL Mission Crew Simulator (CCMCS). FY 2012 funding will procure Baseline 2 Group A and Group B kits and installation of hardware on two Baseline 2 aircraft. Additionally, FY 2012 funding will be used to procure a modern communication receiver quick reaction kits and a second CCMCS. Lastly, the initial spares procurement funding in FY 2012 corrects previous years of underfunding spares coupled with the high utilization rates required to fully support the EC-130H COMPASS CALL mission in OCO.

In FY 2012, budget totals include \$12.0M of requested OCO funding to procure necessary modifications and equipment for an advanced Infrared (IR) Countermeasures system for EC-130H COMPASS CALL mission aircraft. An improved IR Countermeasures system is necessary to protect aircrews from Man Portable Air Defense Systems (MANPADS) threats in and around their current operating area of interest. Current COMPASS CALL threat receivers are ineffective against many commercially available anti-aircraft and communication devices currently in use by insurgents in the CENTCOM theater.

This program has associated Research, Development, Test and Evaluation funding in PE 0207253F.

Aircraft Breakdown: ACTIVE 15, RESERVE 0, ANG 0, TOTAL 15

**Development Status**

The EC-130H COMPASS CALL weapon system is continuously improved using a rapid development and acquisition process supporting a Baseline upgrade strategy. User needs and technology opportunities are continuously reviewed and a new mission equipment baseline is defined approximately every 24 to 36 months. The COMPASS CALL Baseline 1 configuration is currently being fielded. A total of eight EC-130H COMPASS CALL mission aircraft will receive the Baseline 1 upgrade. The COMPASS CALL Baseline 2 configuration is projected to begin fielding in the first quarter of FY 2014. Six EC-130H COMPASS CALL mission aircraft are projected to receive the Baseline 2 upgrade.

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)				13.019		20.652		18.509				12.042
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
Total RDT & E (3600)				13.019		20.652		18.509				12.042
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	2	10.402	2	5.997	2	14.770	2	12.600			2	12.788
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	2	10.402	2	5.997	2	14.770	2	12.600			2	12.788
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)	[0]	7.793	[2]	4.190	[2]	9.936	[2]	33.702			[2]	10.176
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT	[0]	7.793	[2]	4.190	[2]	9.936	[2]	33.702			[2]	10.176
EQUIP NONREC Group B (Active)	[0]		[2]	15.445	[2]	38.519	[2]	24.653			[2]	18.358
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC	[0]		[2]	15.445	[2]	38.519	[2]	24.653			[2]	18.358
CHANGE ORDERS												
DATA												
SIM/TRAINER					[1]	29.795	[1]	27.672				
SUPPORT- EQUIP												
IR Countermeasures						10.000				12.000		
PMA				0.240		0.707		0.721				0.735
CONTRACTOR SUPPORT				0.929		0.702		0.716				0.730
INSTALLATION OF HARDWARE												
FY-09 (Active)		0 KITS	[2]	2.296								
FY-10 (Active)		0 KITS	[0]		[2]	7.129						
FY-11 (Active)		0 KITS					[2]	7.260				
FY-12 (Active)		0 KITS									[2]	7.402
FY-13 (Active)		0 KITS										
FY-14 (Active)		0 KITS										

**Projected Financial Plan Continued**

		<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-15 (Active)	0 KITS												
FY-16 (Active)	0 KITS												
TOTAL INSTALL				2	2.296	2	7.129	2	7.260			2	7.402
TOTAL COST (BP-1100)		2	18.195	2	29.097	2	111.558	2	107.324		12.000	2	50.189
(Totals may not add due to rounding)													
INSTALLATION QTY				2		2		2				2	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		12.222		12.399		12.617				101.460
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)		12.222		12.399		12.617				101.460
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	2	12.984	2	13.183	2	13.386			16	96.110
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	2	12.984	2	13.183	2	13.386			16	96.110
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)	[2]	10.377	[2]	10.586	[2]	10.798			[14]	97.558
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT	[2]	10.377	[2]	10.586	[2]	10.798			[14]	97.558
EQUIP NONREC Group B (Active)	[2]	23.572	[2]	24.469	[2]	21.783			[14]	166.799
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC	[2]	23.572	[2]	24.469	[2]	21.783			[14]	166.799
CHANGE ORDERS										
DATA										
SIM/TRAINER									[2]	57.467
SUPPORT- EQUIP										
IR Countermeasures										22.000
PMA		0.750		0.765		0.780				4.698
CONTRACTOR SUPPORT		0.745		0.760		0.775				5.357
INSTALLATION OF HARDWARE										
FY-09 (Active)	0 KITS								[2]	2.296
FY-10 (Active)	0 KITS								[2]	7.129
FY-11 (Active)	0 KITS								[2]	7.260
FY-12 (Active)	0 KITS								[2]	7.402



UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. EC15 MN- 1002

CLC: CCALL Class: P

Models of Systems Affected: EC-130H/TC-130H

Center: ASC - Wright Patterson AFB, OH

PE 0207253F

Team INFO

**Description/Justification**

The EC-130H COMPASS CALL aircraft is the USAF's wide-area, airborne Command and Control Warfare/Information Operations (C2W/IO) weapon system.

Current program of record includes the following resources: 14 EC-130H operational / mission capable aircraft (primary mission aircraft inventory or PMAI), one TC-130H flight deck trainer aircraft (basic aircraft inventory or BAI), and one COMPASS CALL Mission Crew Simulator (CCMCS).

Funding in FY 2012 will be used to fully convert a C-130 variant into an EC-130H COMPASS CALL and grow the program of record by one operational / mission capable aircraft (15 PMAI in FY 2015). EC 15 will deliver in the Baseline 2 configuration. Equipment procurement and installation are funded in the same fiscal year to fully fund the conversion. Aircraft will be inducted into the depot upon contract award to initiate aircraft teardown and configuration baseline survey in parallel with compass call equipment purchases.

Similarly, FY 2014 funds will be used to fully convert an additional C-130 variant into an EC-130H COMPASS CALL and grow the program of record by one PMAI (16 PMAI in FY 2017).

Aircraft Breakdown: ACTIVE 2, RESERVE 0, ANG 0, TOTAL 2

**Development Status**

The EC-130H COMPASS CALL weapon system is continuously improved using a rapid development and acquisition process supporting a Baseline upgrade strategy. User needs and technology opportunities are continuously reviewed and a new mission equipment baseline is defined approximately every 24 to 36 months. The COMPASS CALL Baseline 1 configuration is currently being fielded. A total of eight EC-130H COMPASS CALL mission aircraft will receive the Baseline 1 upgrade. The COMPASS CALL Baseline 2 configuration is projected to begin fielding in the first quarter of FY 2014. Six EC-130H COMPASS CALL mission aircraft are projected to receive the Baseline 2 upgrade. The additional EC-130H COMPASS CALL slated for conversion from a C-130H variant aircraft with FY 2012 funding will deliver in the Baseline 2 configuration.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total : RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)			[0]									
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS			[0]									
KITS NONRECUR Group A (Active)			0				1	73.100				
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL: KITS NONRECUR			0				1	73.100				
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)			[0]		[0]	75.000		48.300				
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC			[0]		[0]	75.000		48.300				
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
INSTALLATION OF HARDWARE												
FY-12 (Active)	1 KITS						[1]	27.900				
FY-14 (Active)	1 KITS											
TOTAL INSTALL							1	27.900				
TOTAL COST (BP-1100)			0			75.000	1	149.300				
(Totals may not add due to rounding)												
INSTALLATION QTY							1					

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total : RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									[0]	
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									[0]	
KITS NONRECUR Group A (Active)	1	31.500							2	104.600
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR	1	31.500							2	104.600
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)	[1]	48.300							[1]	171.600
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC	[1]	48.300							[1]	171.600
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
INSTALLATION OF HARDWARE										
FY-12 (Active)	1 KITS								[1]	27.900
FY-14 (Active)	1 KITS		[1]	27.900					[1]	27.900
TOTAL INSTALL		1		27.900					2	55.800
TOTAL COST (BP-1100)		1		107.700					2	332.000
(Totals may not add due to rounding)										
INSTALLATION QTY		1							2	

Method of Implementation: Depot

Initial Lead Time: 40 Months

Follow-On Lead Time: 40 Months

**Milestones**

	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>
Contract Date (Month/CY)				01/12		01/14
Delivery Date (Month/CY)				05/15		05/17

**Installation Schedule**

	<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>			
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																1																
Output																																1
Quarter	1	2	3	4	1	2	3	4																								
Input																																
Output								1																								

UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: RC-135 DARP</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$117.826	\$105.540	\$162.211	\$0.000	\$162.211	\$165.283	\$171.859	\$174.303	\$177.689

The program funding includes reductions for overhead reduction efficiencies that are not intended to impact program content. The efficiencies reductions total \$2.622M in FY 2012.

FY 2010 funding totals include an additional \$10.3M appropriated for Overseas Contingency Operations to address a WiMAX capability.

The USAF's Manned Reconnaissance Systems program includes seventeen RC-135 V/W RIVET JOINT, three RC-135S COBRA BALL, and two RC-135U COMBAT SENT mission aircraft. The RC-135V/W RIVET JOINT is the variant with the majority of the aircraft in this program element and as a result, drives the Baseline integration and modification upgrade strategy for the RC-135 fleet. Therefore, the majority of the modification budget is directly related to the RIVET JOINT weapon system baseline strategy which subsequently spills over in the baseline strategies for COBRA BALL and COMBAT SENT weapon systems.

An RC-135 Viability Assesment was conducted in 2007 and the results reported that despite their fleet average airframe age (44 years) and accumulated flight hours (38,000) as of the end of fiscal year 2007, the RC-135 should be able to continue to meet the user's needs by performing intended operations until the year 2040. Viability was assessed based on underlying analyses of reliability, maintainability, performance, corrosion, fatigue, architectural stability, safety and availability. The assessment also summarized that the RC-135 fleet has experienced significant improvement in reliability, maintainability and availability over the period of FY 2001 to FY 2007.

This program has associated Research, Development, Test and Evaluation funding in PE 0305207F.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	2504	COBRA BALL	16.2	14.3	15.3		15.3	15.8	16.7	17.0	17.5		112.9
	4263	RIVET JOINT	91.8	81.2	136.8		136.8	139.3	144.7	146.6	149.3		889.8
	4265	COMBAT SENT	9.8	10.0	10.1		10.1	10.3	10.4	10.6	10.8		72.0
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			117.8	105.5	162.2		162.2	165.3	171.9	174.3	177.7		1074.7
<b>TOTAL FOR WEAPON SYSTEM RC-135 DARP</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. COBRA BALL MN- \_2504

CLC: RC-135 DARP Class: P

Models of Systems Affected: RC-135S, TC-135S

Center: ASC - Wright Patterson AFB, OH

PE 0305207F

Team INFO

**Description/Justification**

Procures and installs various modifications for the RC-135S COBRA BALL aircraft fleet. Due to the rapidly changing threat environment encountered during our prolonged commitment to Overseas Contingency Operations (OCO), the acquisition program manager has the authority to redirect funding as necessary to meet current stated and emerging Combatant Commander requirements.

The RC-135S COBRA BALL program (DARP/Manned Reconnaissance Systems) is managed as an incremental baseline upgrade acquisition strategy in order to maintain relevancy to evolving and emerging adversarial threats such as the proliferation of networked communications for terrorists and/or insurgents world-wide. The BIG SAFARI Baseline Upgrade Strategy requires purchase agreements for long lead items that take approximately 12 months from contract award to delivery. Items contracted for purchase and integration in a given Baseline upgrade are bought in the first year of the procurement funding cycle and are installed in the next year. This acquisition strategy has been successful in maintaining critical combat capability in the ISR arena over the last 30+ years.

FY 2012 procurement funding initiatives will concentrate efforts on the COBRA BALL's Baseline 4 and 4+. Baseline 4 and 4+ subsystem upgrades will consist of, but not limited to, LN-120 navigation system, FISINT intercept coordinator capability, reachback connectivity, integrating the RIVET JOINT Baseline 9/9.2 COMINT suite, a new optical sensor system and processor, an enhanced liquid cooling system, and Sapphire Windows for the collection system.

This program has associated Research, Development, Test and Evaluation funding in PE 0305207F.

Aircraft Breakdown: ACTIVE 3, RESERVE 0, ANG 0, TOTAL 3

**Development Status**

Aircraft, sensor systems, and associated ground support system modifications planned for FY 2012 includes the procurement, fielding and logistical support for two distinct baseline configuration upgrades (4 & 4+) for the RC-135S COBRA BALL.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)			1	2.818	1	2.929	1	3.060			1	3.209
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS			1	2.818	1	2.929	1	3.060			1	3.209
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)			[0]	7.363		4.977		5.602				5.782
EQUIPMENT Group B (Guard)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT			[0]	7.363		4.977		5.602				5.782
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP			[0]	6.026								
INSTALLATION OF HARDWARE												
FY-10 (Active)	1	KITS			[1]	6.430						
FY-11 (Active)	1	KITS					[1]	6.656				
FY-12 (Active)	1	KITS									[1]	6.762
FY-13 (Active)	1	KITS										
FY-14 (Active)	1	KITS										
FY-15 (Active)	1	KITS										
FY-16 (Active)	1	KITS										
TOTAL INSTALL						1 6.430		1 6.656				1 6.762
TOTAL COST (BP-1100)			1	16.207	1	14.336	1	15.318			1	15.753
(Totals may not add due to rounding)												
INSTALLATION QTY			1		1		1				1	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	1	3.255	1	3.369	1	3.430			7	22.070
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	1	3.255	1	3.369	1	3.430			7	22.070
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)		6.585		6.683		6.975			[0]	43.967
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT		6.585		6.683		6.975			[0]	43.967
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP									[0]	6.026
INSTALLATION OF HARDWARE										
FY-10 (Active)			1 KITS						[1]	6.430
FY-11 (Active)			1 KITS						[1]	6.656
FY-12 (Active)			1 KITS						[1]	6.762
FY-13 (Active)			1 KITS						[1]	6.872
FY-14 (Active)			1 KITS		[1]	6.997			[1]	6.997
FY-15 (Active)			1 KITS				[1]	7.123	[1]	7.123
FY-16 (Active)			1 KITS							

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL INSTALL	1	6.872	1	6.997	1	7.123			6	40.840
TOTAL COST (BP-1100) (Totals may not add due to rounding)	1	16.712	1	17.049	1	17.528			7	112.903
INSTALLATION QTY	1		1		1				7	

Method of Implementation: Depot Field Team

Initial Lead Time: 12 Months

Follow-On Lead Time: 12 Months

**Milestones**

	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>
Contract Date (Month/CY)		01/10	01/11	01/12	01/13	01/14	01/14	01/15
Delivery Date (Month/CY)		01/11	01/12	01/13	01/14	01/15	01/15	01/16

**Installation Schedule**

	<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input					1				1				1								1				1				1			
Output					1				1				1								1				1				1			
	<u>FY-16</u>																															
Quarter	1	2	3	4																												
Input	1																															
Output	1																															

02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. RIVET JOINT MN- 4263

CLC: RC-135 DARP Class: P

Models of Systems Affected: RC-135V/W & TC-135W

Center: ASC - Wright Patterson AFB, OH

PE 0305207F

Team INFO

**Description/Justification**

FY10 funding totals include \$10.3M appropriated for Overseas Contingency Operations (OCO) to procure WiMAX equipment.

Procures and installs various modifications for RC-135V/W RIVET JOINT aircraft fleet. Due to the rapidly changing threat environment encountered during our prolonged commitment to OCO, the acquisition program manager has the authority to redirect funding as necessary to meet current stated and emerging Combatant Commander requirements.

The RC-135V/W RIVET JOINT program (DARP/Manned Reconnaissance Systems) is managed as an incremental baseline upgrade acquisition strategy in order to maintain relevancy to evolving and emerging adversarial threats such as the proliferation of networked communications for terrorists and/or insurgents world-wide. The BIG SAFARI Baseline Upgrade Strategy requires purchase agreements for long lead items that take approximately 12 months from contract award to delivery. Items contracted for purchase and integration in a given Baseline upgrade are bought in the first year of the procurement funding cycle and are installed in the next year. This acquisition strategy has been successful in maintaining critical combat capability in the ISR arena over the last 30+ years.

FY 2012 procurement funding initiatives will concentrate efforts on the RIVET JOINT's Baselines 10 and 11. Baseline 10 subsystem upgrades will consist of, but not limited to, a more robust COMINT system, a precision ELINT upgrade (CORVUS), theater networked geolocation capabilities (NCCT), expanded distributed operations (SOA), satellite communications (WGS, mid-baseline), cockpit avionic enhancements to comply with CNS/ATM and RNP requirements plus address any obsolescence issues, and weight reduction phase 2. Baseline 11 subsystem upgrades will consist of, but not limited to, precision multi-angle DF COMINT capability, ELINT recorder expansion, WGS enhanced integration, continued CNS/ATM and RNP compliant cockpit avionics enhancements to include addressing any obsolescence issues, and weight reduction phase 3.

This program has associated Research, Development, Test and Evaluation funding in PE 0305207F.

Aircraft Breakdown: ACTIVE 17, RESERVE 0, ANG 0, TOTAL 17

**Development Status**

Aircraft, sensor systems, and associated ground support system modifications planned for FY 2012 include the procurement, fielding and logistical support for two distinct RC-135V/W RIVET JOINT baseline (10 & 11) configurations.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)			2	10.153	2	10.417	2	10.851			2	11.289
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS			2	10.153	2	10.417	2	10.851			2	11.289
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIPMENT Group B (Active)			[0]	43.482		29.494		83.796				84.980
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT			[0]	43.482		29.494		83.796				84.980
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP			[0]	38.200								
INSTALLATION OF HARDWARE												
FY-10 (Active) 2 KITS					[2]	41.324						
FY-11 (Active) 2 KITS							[2]	42.150				
FY-12 (Active) 2 KITS											[2]	42.993
FY-13 (Active) 2 KITS												
FY-14 (Active) 2 KITS												
FY-15 (Active) 2 KITS												
TOTAL INSTALL					2	41.324	2	42.150			2	42.993
TOTAL COST (BP-1100)			2	91.835	2	81.235	2	136.797			2	139.262
(Totals may not add due to rounding)												
INSTALLATION QTY			2		2		2				2	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	2	11.745	2	12.209	2	12.428			14	79.092
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	2	11.745	2	12.209	2	12.428			14	79.092
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)		89.105		89.674		91.499			[0]	512.030
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT		89.105		89.674		91.499			[0]	512.030
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP									[0]	38.200
INSTALLATION OF HARDWARE										
FY-10 (Active) 2 KITS									[2]	41.324
FY-11 (Active) 2 KITS									[2]	42.150
FY-12 (Active) 2 KITS									[2]	42.993
FY-13 (Active) 2 KITS	[2]	43.853							[2]	43.853
FY-14 (Active) 2 KITS			[2]	44.730					[2]	44.730
FY-15 (Active) 2 KITS					[2]	45.401			[2]	45.401
TOTAL INSTALL	2	43.853	2	44.730	2	45.401			12	260.451



UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. COMBAT SENT MN- 4265

CLC: RC-135 DARP Class: P

Models of Systems Affected: RC-135U

Center: ASC - Wright Patterson AFB, OH

PE 0305207F

Team INFO

**Description/Justification**

Procures and installs various classified modifications for RC-135U COMBAT SENT aircraft fleet. Due to the rapidly changing threat environment encountered during our prolonged commitment to Overseas Contingency Operations (OCO), the acquisition program manager has the authority to redirect funding as necessary to meet current stated and emerging Combatant Commander requirements.

The RC-135U COMBAT SENT program (DARP/Manned Reconnaissance Systems) is managed as an incremental baseline upgrade acquisition strategy in order to maintain relevancy to evolving and emerging adversarial threats such as the proliferation of networked communications for terrorists and/or insurgents world-wide. The BIG SAFARI Baseline Upgrade Strategy requires purchase agreements for long lead items that take approximately 12 months from contract award to delivery. Items contracted for purchase and integration in a given Baseline upgrade are bought in the first year of the procurement funding cycle and are installed in the next year. This acquisition strategy has been successful in maintaining critical combat capability in the ISR arena over the last 30+ years.

FY 2012 procurement funding initiatives will concentrate efforts on the COMBAT SENT's Baseline 4. Baseline 4 subsystem upgrades will consist of, but not limited to, integration of the LN-120 navigation system, a new RFD system with liquid cooling, precision ELINT system, integration of the RIVET JOINT Baseline 9 COMINT suite, reachback connectivity and theater networked geolocation capabilities (NCCT) integration.

This program has associated Research, Development, Test and Evaluation funding in PE 0305207F.

Aircraft Breakdown: ACTIVE 2, RESERVE 0, ANG 0, TOTAL 2

**Development Status**

Aircraft, sensor systems, and associated ground support system modifications planned for FY 2012 include the procurement, fielding and logistical support for the distinct baseline 4 RC-135U COMBAT SENT.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)			1	2.842	1	2.952	1	3.247			1	3.300
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS			1	2.842	1	2.952	1	3.247			1	3.300
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>		
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	
TOTAL: EQUIPMENT													
EQUIP NONREC Group B (Active)			[0]	4.894		1.974		1.784				1.849	
EQUIP NONREC Group B (Guard)													
EQUIP NONREC Group B (Reserve)													
TOTAL: EQUIP NONREC			[0]	4.894		1.974		1.784				1.849	
CHANGE ORDERS													
DATA													
SIM/TRAINER													
SUPPORT- EQUIP			[0]	2.048									
INSTALLATION OF HARDWARE													
FY-10 (Active)	1 KITS				[1]	5.043							
FY-11 (Active)	1 KITS							[1]	5.065				
FY-12 (Active)	1 KITS										[1]	5.119	
FY-13 (Active)	1 KITS												
FY-14 (Active)	1 KITS												
FY-15 (Active)	1 KITS												
FY-16 (Active)	1 KITS												
TOTAL INSTALL						1	5.043		1	5.065		1	5.119
TOTAL COST (BP-1100)			1	9.784	1	9.969	1	10.096			1	10.268	
(Totals may not add due to rounding)													
INSTALLATION QTY			1		1		1				1		

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	1	3.323	1	3.377	1	3.438			7	22.479
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	1	3.323	1	3.377	1	3.438			7	22.479
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)		2.045		2.061		2.114			[0]	16.721
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC		2.045		2.061		2.114			[0]	16.721
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP									[0]	2.048
INSTALLATION OF HARDWARE										
FY-10 (Active)			1 KITS						[1]	5.043
FY-11 (Active)			1 KITS						[1]	5.065
FY-12 (Active)			1 KITS						[1]	5.119
FY-13 (Active)			1 KITS	[1]	5.076				[1]	5.076
FY-14 (Active)			1 KITS	[1]	5.203				[1]	5.203
FY-15 (Active)			1 KITS			[1]	5.281		[1]	5.281
FY-16 (Active)			1 KITS							

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL INSTALL	1	5.076	1	5.203	1	5.281			6	30.787
TOTAL COST (BP-1100) (Totals may not add due to rounding)	1	10.444	1	10.641	1	10.833			7	72.035
INSTALLATION QTY	1		1		1				7	

Method of Implementation: Depot Field Team

Initial Lead Time: 12 Months

Follow-On Lead Time: 12 Months

**Milestones**

	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>
Contract Date (Month/CY)			01/11	01/12	01/13	01/14	01/15	01/16	01/17
Delivery Date (Month/CY)			01/12	01/13	01/14	01/15	01/16	01/17	01/18

**Installation Schedule**

	<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input					1				1				1								1				1				1			
Output					1				1				1								1				1				1			
	<u>FY-16</u>																															
Quarter	1	2	3	4																												
Input	1																															
Output	1																															

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UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications					P-1 LINE ITEM NOMENCLATURE: E-3					
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16	
<b>COST (In Mil)</b>	\$78.936	\$195.163	\$135.031	\$	\$135.031	\$186.631	\$215.553	\$183.660	\$275.219	

Totals include funding for Program Resources Collection Process (PRCP) Program Number, 277, AWACS Upgrade (for the Block 40/45 Upgrade).

This line item funds modifications to the E-3 aircraft. The four-engine E-3 is a modified Boeing 707 airframe which carries airborne radar and provides all-altitude air surveillance, threat warning, and control of theater air forces. The primary modification budgeted in FY12 is the Block 40/45 Upgrade. Other modifications budgeted and programmed are listed below.

There are a total of 31 operational aircraft in the inventory. Beginning in FY12, one of the operational aircraft will begin a conversion to become a test asset. This is expected to be complete in FY14. When complete the inventory will be 30 operational aircraft and 1 test aircraft.

The E-3's (produced from 1971 to 1984) have a service life objective of 30,000 hours. The current fleet averages approximately 22,500 hours, 3076 pressurization cycles, and 7535 landing cycles. The Air Force uses an Aircraft Structural Integrity Plan (ASIP) to monitor safety based on actual usage. Durability and Damage Tolerance Assessment (DADTA) studies should be complete by FY12 and will update the ASIP.

The program funding includes reductions for Overhead Reduction efficiencies that are not intended to impact program content. The efficiencies reductions total \$7.081M in FY12.

CLASS	MOD NR	MODIFICATION TITLE	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16	COST TO GO	TOTAL PROG
P	50001P	TSI	1.7	2.8	2.9		2.9	3.1	3.4	3.7	2.0		19.6
	50001T	BLOCK 40/45 UPGRADE	62.2	172.6	102.4		102.5	153.2	175.2	171.4	199.7	404.8	1508.7
	7225	NEXT GENERATION IDENTIFICATION FRIEND OR FOE (IFF)		6.9	23.8		23.8	23.3	26.6				80.7
	7267	NAVWAR	1.4										14.0
	7268	INTEGRATED DAMA GATM	3.5	0.3	0.3		0.3						130.5
	8662	AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	2.4	2.5					2.6	2.7	2.7		12.9
	9707	RM&A MODS	7.7	10.1	5.5		5.5	7.1	7.7	5.9	1.4		190.4
	9709	GATM Phase II									69.3	996.7	1065.9

Totals may not add due to rounding

TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 69	PAGE NO. 1	
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>	<b>P-1 LINE ITEM NOMENCLATURE: E-3</b>
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<u>CLASS</u>	<u>MOD</u> <u>NR</u>	<u>MODIFICATION</u> <u>TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12OCO</u>	<u>FY-12Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST</u> <u>TO GO</u>	<u>TOTAL</u> <u>PROG</u>
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			78.9	195.2	135.0		135.0	186.6	215.6	183.7	275.2	1401.4	3022.7

**TOTAL FOR WEAPON SYSTEM E-3**

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 69	PAGE NO. 2	
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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. BLOCK 40/45 UPGRADE MN- 50001T

Models of Systems Affected: E-3

Center: ESC - Hanscom AFB, MA

PE 0207417F

CLC: E-3 Class: P  
Team INFO

**Description/Justification**

AWACS Block 40/45 is tracked as Program Resources Collection Process (PRCP) Program Number, 277, AWACS Upgrade.

This modification upgrades numerous sensor and C2 systems to include the E-3 legacy Mission Systems Computers, display processors and displays. Without this modification, the E-3's ability to fully support airspace control and Air Force battle management missions is severely restricted. The additional enhancements to the Mission Computing System of the AWACS provides an open computing architecture enabling rapid, low cost delivery of plug-and-play capability; data fusion (of both off-board and on-board sensor data) with Multi-Source Integration (MSI) for an improved picture of the battlespace and identification; Data Link Infrastructure (DLI) which supports a distributed system architecture and rapid changes to TADIL-J message formats and protocols; and improved electronic support measures processing.

The Block 40/45 program plans for multi-year advanced buys of Commercial Off The Shelf (COTS) equipment due to the short life-cycles in high tech components starting in FY13. The program will buy FY13, FY14 and FY15 COTS equipment in FY13 and buy FY16, FY17 and FY18 COTS equipment in FY16 including initial spares.

There are a total of 31 E-3 operational aircraft. The Low Rate Initial Production was approved for six (6) aircraft in Nov 2008. The Block 40/45 Full Rate Production Decision is scheduled for late FY12 for the remaining 25 aircraft. The program's two key objective/threshold APB dates are: Initial Operational Capability for five 40/45 aircraft (Apr 14 - Oct 14) and Full Operational Capability (FOC) (Aug 20 – Feb 21).

This modification will also be installed on multiple simulators and trainers. The development of these trainer sets, the Mission Crew Trainer and Mission Computing Maintenance Trainer, began in FY11.

This modification has related RDT&E funding in PE 0207417F.

Aircraft Breakdown: ACTIVE 31, RESERVE 0, ANG 0, TOTAL 31

**Development Status**

- 11/08 - Completed Aircraft Block 40/45 Development (Milestone C/LRIP)
- 03/11 - Begin development of Mission Computing Maintenance Trainer (MCMT)
- 06/11 - Begin development of Mission Crew Trainer Set (MCTS)
- 06/11 - Complete Aircraft Block 40/45 Pre-Production

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)		69.923		57.140		102.061		21.113				6.232
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)		69.923		57.140		102.061		21.113				6.232
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	1	15.932	2	21.529	3	33.526	0	0.000			4	41.003
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	1	15.932	2	21.529	3	33.526	0	0.000			4	41.003
KITS NONRECUR Group A (Active)		5.653		4.398		4.265						

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR		5.653		4.398		4.265						
EQUIPMENT Group B (Active)	[1]	13.316	[2]	20.030	[3]	31.301	[0]	0.000			[4]	38.462
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT	[1]	13.316	[2]	20.030	[3]	31.301	[0]	0.000			[4]	38.462
EQUIP NONREC Group B (Active)		6.376		4.826		4.512						
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC		6.376		4.826		4.512						
CHANGE ORDERS		0.000		0.000		0.000		3.204				0.500
DATA		1.809		1.414		0.714		0.731				0.743
SIM/TRAINER	[0]	2.540	[0]	1.240	[0]	4.727	[0]	2.335			[0]	1.264
SUPPORT- EQUIP		9.085		1.785		3.117		1.753				2.540
DMS (Diminished Manufacturing Sources)		0.000		0.000		19.567		18.093				15.350
ICS-Labor				0.000		5.621		5.918				9.214
OTHER		8.900		1.500		7.982		12.193				0.582
GFE		0.000		0.311		0.588		3.371				0.443
PROGRAM MNGMT		3.519		5.180		5.680		4.914				5.664
OGC		0.000		0.000				0.420				0.403
CONTRACTOR SUPPORT		0.000		0.000				5.910				3.733
OTHER												
INSTALLATION OF HARDWARE												
FY-09 (Active)			1 KITS			[1]	26.123					
FY-10 (Active)			2 KITS			[1]	24.920	[1]	21.800			
FY-11 (Active)			3 KITS					[1]	21.808			
FY-13 (Active)			4 KITS								[2]	33.331
FY-14 (Active)			4 KITS									
FY-15 (Active)			4 KITS									
FY-16 (Active)			5 KITS									
FY-17 (Active)			5 KITS									

**Projected Financial Plan Continued**

		<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-18 (Active)	3 KITS												
TOTAL INSTALL						2	51.043	2	43.608			2	33.331
TOTAL COST (BP-1100)		1	67.130	2	62.213	3	172.643	0	102.450			4	153.232
(Totals may not add due to rounding)													
INSTALLATION QTY						2		2				2	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										256.469
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										256.469
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	4	39.736	4	39.798	5	48.012	8	95.416	31	334.952
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	4	39.736	4	39.798	5	48.012	8	95.416	31	334.952
KITS NONRECUR Group A (Active)										14.316
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										14.316
EQUIPMENT Group B (Active)	[4]	28.179	[4]	27.354	[5]	43.732	8	66.731	[31]	269.105
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT	[4]	28.179	[4]	27.354	[5]	43.732	[8]	66.731	[31]	269.105
EQUIP NONREC Group B (Active)										15.714
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										15.714
CHANGE ORDERS		14.493		12.100		0.299		36.349		66.945
DATA		0.758		0.770		0.791		2.248		9.978
SIM/TRAINER	[1]	8.720	[1]	8.696	[1]	11.184	1	8.684	[4]	49.390
SUPPORT- EQUIP		2.591		2.643		4.314		5.971		33.799
DMS (Diminished Manufacturing Sources)		8.783		8.840		19.488		35.827		125.948
ICS-Labor		11.886		12.004		13.926		20.940		79.509
OTHER		0.297		4.164		4.235		5.642		45.495
GFE		0.451		0.460		0.577		1.016		7.217
PROGRAM MNGMT		5.705		5.396		4.798		4.170		45.026
OGC		0.415		0.380		0.326		0.901		2.845
CONTRACTOR SUPPORT		3.343		2.275		1.944		6.577		23.782
OTHER										

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>		
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	
INSTALLATION OF HARDWARE											
FY-09 (Active)	1 KITS								[1]	26.123	
FY-10 (Active)	2 KITS								[2]	46.720	
FY-11 (Active)	3 KITS								[3]	55.139	
FY-13 (Active)	4 KITS	[4]	49.831						[4]	49.831	
FY-14 (Active)	4 KITS			[4]	46.490				[4]	46.490	
FY-15 (Active)	4 KITS					[4]	46.121		[4]	46.121	
FY-16 (Active)	5 KITS							5	49.730	[5]	49.730
FY-17 (Active)	5 KITS							5	34.445	[5]	34.445
FY-18 (Active)	3 KITS							3	30.120	[3]	30.120
TOTAL INSTALL	4	49.831	4	46.490	4	46.121	13	114.295	31	384.719	
TOTAL COST (BP-1100) (Totals may not add due to rounding)	4	175.188	4	171.370	5	199.747	8	404.767	31	1508.740	
INSTALLATION QTY	4		4		4		13		31		

Method of Implementation: Depot

Initial Lead Time: 18 Months

Follow-On Lead Time: 18 Months

**Milestones**

	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>
Contract Date (Month/CY)	05/09	12/09	03/11	12/11	12/12	12/13	12/14	12/15	
Delivery Date (Month/CY)	11/10	06/11	09/12	06/13	06/14	06/15	06/16	06/17	

**Installation Schedule**

	<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Input													1				1				1				1				1				1			
Output																	1				1				1				1							

  

	<u>FY-15</u>				<u>FY-16</u>				<u>FY-17</u>				<u>FY-18</u>				<u>FY-19</u>				<u>FY-20</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input			1	3	1	2	1		1	2	1	1	1	2	1	1	2	1						
Output	1		2	1	1		2	1	1	1	1	1	1	1	1	1	2	1	1	2	2			

02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. NEXT GENERATION IDENTIFICATION FRIEND OR FOE (IFF) MN- 7225  
 Models of Systems Affected: E-3 Center: ESC - Hanscom AFB, MA

CLC: E-3 Class: P  
 PE 0207417F Team INFO

**Description/Justification**

The Next Generation Identification Friend or Foe (NGIFF) program funds acquisition and retrofit of the E-3 AWACS IFF capability. NSA declared IFF Mode 4 unsecure and obsolete on 5 Nov 2003. Joint Requirements Oversight Council Memo 047-07 requires IFF Mode 5 interrogation capability by FY14.

The NGIFF program provides AWACS with enhanced IFF interrogator operation to add a more secure Mode 5 capability. This program develops and integrates a basic Mode 5 capability on Block 30/35 starting in FY08 and full Mode 5 on Block 40/45 starting in FY10. Hardware will be common between the two platforms, allowing production contract to begin in FY12 after development of the 30/35 capability. Block 30/35 installation starts in FY13. Funding through FY14 covers all 31 operational aircraft kit buys, and installs are done at the Organizational/Intermediate level.

This modification has related RDT&E funding in PE 0207417F.

There are a total of 31 operational aircraft.

Aircraft Breakdown: ACTIVE 31, RESERVE 0, ANG 0, TOTAL 31

**Development Status**

EMD started in FY09.  
 02/09 - Block 30/35 EMD Contract Awarded  
 10/10 - Block 30/35 Development/Operational Test and Evaluation  
 10/10 - Block 40/45 EMD Contract Awarded

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)		15.420		19.641		35.697		24.670				10.000
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)		15.420		19.641		35.697		24.670				10.000
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	0						9	0.720			10	0.852
INSTALL KITS Group A (Guard)	0											
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	0						9	0.720			10	0.852
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)	[0]						[9]	12.192			[10]	14.482
EQUIPMENT Group B (Guard)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT	[0]						[9]	12.192			[10]	14.482
EQUIP NONREC Group B (Active)	[0]					0.842		1.201				1.526
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC	[0]					0.842		1.201				1.526
CHANGE ORDERS						1.262		1.547				2.720
DATA								0.133				0.169
SIM/TRAINER												
SUPPORT- EQUIP								5.696				
OTHER						4.589						
ICS												0.112
GFE								0.781				0.993
CONTRACTOR SUPPORT								0.428				1.548
PROGRAM MNGMT						0.228		1.144				0.860
<b>TOTAL COST (BP-1100)</b>	<b>0</b>					<b>6.921</b>	<b>9</b>	<b>23.842</b>			<b>10</b>	<b>23.262</b>
(Totals may not add due to rounding)												
INSTALLATION QTY											9	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										105.428
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										105.428
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	12	1.047							31	2.619
INSTALL KITS Group A (Guard)									0	
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	12	1.047							31	2.619
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)	[12]	17.676							[31]	44.350
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT	[12]	17.676							[31]	44.350
EQUIP NONREC Group B (Active)		1.518							[0]	5.087
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC		1.518							[0]	5.087
CHANGE ORDERS		2.812								8.341
DATA		0.223								0.525
SIM/TRAINER										
SUPPORT- EQUIP										5.696
OTHER										4.589
ICS		0.224								0.336
GFE		1.313								3.087
CONTRACTOR SUPPORT		0.955								2.931
PROGRAM MNGMT		0.867								3.099
TOTAL COST (BP-1100)	12	26.635							31	80.660
(Totals may not add due to rounding)										
INSTALLATION QTY	10		12						31	

Method of Implementation: Org/Intermediate

Initial Lead Time: 10 Months

Follow-On Lead Time: 10 Months

**Milestones**

	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>
Contract Date (Month/CY)						03/12	03/13	03/14
Delivery Date (Month/CY)						01/13	01/14	01/15

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. RM&A MODS MN- 9707

CLC: E-3 Class: P

Models of Systems Affected: E-3 B/C

Center: ESC - Hanscom AFB, MA

PE 0207417F

Team INFO

**Description/Justification**

RM&A modifications ensure continuing reliability, maintainability, and availability of AWACS in support of Task Force CONOPs and help lay the foundation for achieving the Commander Air Combat Command (COMACC) mandated Mission Capable (MC) rate of 79%. Modifications include the purchase of aircraft kits, upgrading labs, installation, technical data and engineering support. RM&A modifications enhance readiness by resolving non-mission capable issues or reducing maintenance burden, resolve component obsolescence, or remove deactivated equipment.

In FY12, the RM&A modifications include but are not limited to: Electronic Flight Bag, HAVE SIREN Wiring, Electronic Support System Removal, SF-6 Bottle Bracket, High Voltage Regulator Test Set, testing Digital Autopilot, High Voltage Filter, High Voltage Aux Upgrade Kit (81BZO), PSDU (Phase Shifter power Supply), Floating Deck Pulsar, Fuel Quantity Indication System (FQIS), Rotary Coupler, Vertical Stabilizer & Rudder Modification, Solid State Driver (SSTPA) (Radar), Antenna Refurbishment, Generators, Low Power Filter (LPF) (ARC 169), APU Insulation Replacement.

This modification encompasses multiple efforts so the contracts awarded, kits procured, and kits installed will vary each year.

This modification has a Combination of implementation modes. The modifications are either installed at Depot or Organizational/Intermediate (flight line). The installation schedules depict only the installs accomplished at depot.

These modification program has related RDT&E funding in PE 0207417F.

There are a total of 31 operational aircraft.

Aircraft Breakdown: ACTIVE 31, RESERVE 0, ANG 0, TOTAL 31

**Development Status**

N/A

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)		6.527		2.882		9.308		4.861				6.868
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)		6.527		2.882		9.308		4.861				6.868
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	[634]	21.417	[69]	0.525	[37]	1.122	[13]	3.255			[14]	4.878
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	[634]	21.417	[69]	0.525	[37]	1.122	[13]	3.255			[14]	4.878
KITS NONRECUR Group A (Active)	[0]	0.294										
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR	[0]	0.294										

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIPMENT Group B (Active)	634	67.472	69	0.303	37	0.238	13	0.476			14	0.484
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT	634	67.472	69	0.303	37	0.238	13	0.476			14	0.484
EQUIP NONREC Group B (Active)	[0]	15.393		5.838		7.588		0.036				
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC	[0]	15.393		5.838		7.588		0.036				
CHANGE ORDERS						0.683		0.362				0.267
DATA	[0]	0.742		0.227								
SIM/TRAINER	[8]	0.933										
SUPPORT- EQUIP	[0]	10.695										
OGC												
CONTRACTOR SUPPORT	[0]	2.491										
PROGRAM MNGMT	[0]	13.625		0.637				0.265				0.262
DMS (Diminished Manufacturing Sources)	[0]	9.738										
INSTALLATION OF HARDWARE												
FY-04 (Active)	174 KITS	[32]	0.733									
FY-05 (Active)	102 KITS	[9]	0.976		[1]	0.038						
FY-06 (Active)	71 KITS	[11]	0.150		[4]	0.084		[4]	0.123		[6]	0.187
FY-07 (Active)	154 KITS	[8]	0.296									
FY-08 (Active)	98 KITS						[4]	0.335		[6]	0.670	
FY-09 (Active)	35 KITS										[6]	0.670
FY-10 (Active)	69 KITS											
FY-11 (Active)	37 KITS											
FY-12 (Active)	13 KITS							[5]	0.271			
FY-13 (Active)	14 KITS										[6]	0.326
FY-14 (Active)	10 KITS											
FY-15 (Active)	8 KITS											
FY-16 (Active)	1 KITS											
TOTAL INSTALL	60	2.155	5	0.122	8	0.458	17	1.128			18	1.187

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL COST (BP-1100)	634	144.955	69	7.652	37	10.089	13	5.522			14	7.078
(Totals may not add due to rounding)												
INSTALLATION QTY	60		5		8		17				18	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		10.626		9.763		11.712				62.547
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)		10.626		9.763		11.712				62.547
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	[10]	3.303	[8]	3.797	[1]	0.287			[786]	38.584
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	[10]	3.303	[8]	3.797	[1]	0.287			[786]	38.584
KITS NONRECUR Group A (Active)									[0]	0.294
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									[0]	0.294
EQUIPMENT Group B (Active)	10	0.437	8	0.412	1	0.045			786	69.867
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT	10	0.437	8	0.412	1	0.045			786	69.867
EQUIP NONREC Group B (Active)		0.419				0.050			[0]	29.324
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC		0.419				0.050			[0]	29.324
CHANGE ORDERS		0.522		0.402		0.000				2.236
DATA		0.113		0.026		0.010			[0]	1.118
SIM/TRAINER	[1]	1.582							[9]	2.515
SUPPORT- EQUIP									[0]	10.695
OGC										
CONTRACTOR SUPPORT									[0]	2.491
PROGRAM MNGMT		0.251		0.187		0.035			[0]	15.262
DMS (Diminished Manufacturing Sources)									[0]	9.738
INSTALLATION OF HARDWARE										
FY-04 (Active)			174 KITS						[32]	0.733
FY-05 (Active)			102 KITS						[10]	1.014
FY-06 (Active)	[6]	0.194	[5]	0.165	[1]	0.034			[43]	1.128

**Continued**

		<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-07 (Active)	154 KITS									[8]	0.296
FY-08 (Active)	98 KITS									[10]	1.005
FY-09 (Active)	35 KITS									[6]	0.670
FY-10 (Active)	69 KITS	[5]	0.559							[5]	0.559
FY-11 (Active)	37 KITS			[6]	0.670					[11]	0.941
FY-12 (Active)	13 KITS					[3]	0.559			[9]	0.885
FY-13 (Active)	14 KITS	[6]	0.326							[6]	0.326
FY-14 (Active)	10 KITS			[5]	0.271					[5]	0.271
FY-15 (Active)	8 KITS					[5]	0.326			[5]	0.326
FY-16 (Active)	1 KITS					[1]	0.098			[1]	0.098
TOTAL INSTALL		17	1.079	16	1.106	10	1.017			151	8.252
TOTAL COST (BP-1100) (Totals may not add due to rounding)		10	7.706	8	5.930	1	1.444			786	190.376
INSTALLATION QTY		17		16		10				151	

Method of Implementation: Combination

Initial Lead Time: 0 Months

Follow-On Lead Time: 0 Months

**Milestones**

	<u>FY-03</u>	<u>FY-04</u>	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>
Contract Date (Month/CY)															
Delivery Date (Month/CY)															

**Installation Schedule**

	Quarter	<u>FY-03</u>				<u>FY-04</u>				<u>FY-05</u>				<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>											
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4								
Input												3					12	7			9	9	1				10	1					8							3	2
Output											3						12	7			9	9	1				2	3	5	1			8								3

  

	Quarter	<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input		2	2	2	2	3	5	5	4			4	4	5	5	5	5	5	4	3	5	5	3	3	3	3	3	3	1
Output		2	2	2	2	2	3	5	5			4	4	4	5	5	5	5	4	3	5	5	3	3	4	4	4	2	

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications					P-1 LINE ITEM NOMENCLATURE: E-4				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$72.830	\$37.526	\$57.829	\$	\$57.829	\$37.182	\$11.470	\$13.637	\$17.115

The program funding includes reductions for overhead reduction efficiencies that are not intended to impact program content. The efficiencies reductions total \$0.065M in FY12.

This line item funds modifications to the E-4B aircraft. The four engine E-4B is a highly modified Boeing 747-200 airframe used in support of the mission of the National Airborne Operations Center (NAOC). NAOC supports the national decision makers and the Joint Chiefs of Staff as a worldwide survivable and enduring node of the National Military Command System. There are four E-4B aircraft. The primary modifications budgeted in FY12 include Message Processing System upgrade, STUIII Replacement phase II, and CNS/ATM. Other modifications are budgeted to enhance operational capability while improving flight safety, reliability, and maintainability. The current Boeing estimated design service life of the Boeing 747-200 E-4B airframe is 115K hours and 30K cycles recently estimated to be reached during 2039. Remaining service life based on the E-4B airframe is 28 years. However, maintenance issues leading to extended depot periods is expected to limit the ability of E-4B fleet to support the NAOC mission due to aircraft non-availability. The maintenance limiting point is expected likely occur during the decade beginning 2020.

This program has associated Research, Development, Test and Evaluation funding in PE 0302015F.

CLASS	MOD NR	MODIFICATION TITLE	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16	COST TO GO	TOTAL PROG
P	_3450	Secure Data Crypto						4.1					4.1
	3410	NPES (NC2AIS) E-4B	0.7	0.7	0.7		0.7	0.7	0.7	0.7			4.0
	4383A	Message Processing System (MPS)	8.0	2.8	20.7		20.7	2.6					34.1
	4389	C-3 UHF DIGITIZATION	6.1	2.4									13.2
	4390	E-4B KG-3X MODERNIZATION	0.0	0.5									1.6
	4391	SHF MUX UPGRADE		0.3	0.4		0.4						0.7
	4392	HIGH SPEED DATA 256 (HSD256) UPGRADE	0.0	7.5									16.2
	4393	STU III Replacement	0.6		11.5		11.5	13.5					38.1
	4394	Enhanced Mode S	0.4	0.6									4.0
	4399	MILSTAR Ultra High Frequency (UHF) SATCOM System Replacement	0.3	4.8	7.7		7.7						12.8
	4402	Secure Voice Crypto	5.8										6.7

Totals may not add due to rounding

TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 70	PAGE NO. 1	
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UNCLASSIFIED

BUDGET ITEM JUSTIFICATION  
(EXHIBIT P-40)

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY:

AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications

P-1 LINE ITEM NOMENCLATURE: E-4

CLASS	MOD NR	MODIFICATION TITLE	FY-10	FY-11	FY-12	FY-12OCO	FY-12Total	FY-13	FY-14	FY-15	FY-16	COST TO GO	TOTAL PROG
	4404	E-4B NAOC Modification Block 1	46.5										72.5
	4406	Secure, Survivable Voice Communication		7.0	6.0		6.0	6.0		2.5	6.1		27.6
	9709D	E-4B COMMUNICATION NAVIGATION SURVEILLANCE/AIR TRAFFIC MANAGEMENT I		1.6	5.1		5.1	3.1	3.1	3.2	3.5		19.6
	99999S	SERVICE BULLETINS	2.5	7.4	3.8		3.8	5.4	5.6	5.2	5.4		35.4
	99999X	LOW COST MODIFICATIONS	2.0	2.0	2.0		2.0	1.8	2.0	2.0	2.0		13.8
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			72.8	37.5	57.8		57.8	37.2	11.5	13.6	17.1		304.5
<b>TOTAL FOR WEAPON SYSTEM E-4</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

P-1 SHOPP LIST ITEM  
NO. 70

PAGE NO.  
2

02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Message Processing System (MPS) MN- 4383A

CLC: E-4 Class: P

Models of Systems Affected: E-4B

Center: OC-ALC - Tinker AFB Okla City, OK

PE 0302015F

Team INFO

**Description/Justification**

The Message Processing System Upgrade (MPSU) program will replace the outdated embedded cryptography, incorporate Split Remote Control Unit (SRCU) software into the MPS, as well as add sufficient bandwidth to interface with the E-4B network infrastructure, including the legacy MPS printer and black switch. This upgrade enables the NAOCC team to manage internal message traffic as well as to send and receive Emergency Action Messages (EAMs) while meeting the National Security Agency (NSA) mandate to replace MPS cryptology. This modification replaces the embedded cryptology with a software based cryptographic subsystem and upgrades MPS infrastructure.

Contractor support consists entirely of Advisory & Assistance Services (A&AS).

Aircraft Breakdown: ACTIVE 4, RESERVE 0, ANG 0, TOTAL 4

**Development Status**

Development is complete.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)			1	7.762			3	19.150				
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS			1	7.762			3	19.150				
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
DATA						1.040						
SIM/TRAINER												
SUPPORT- EQUIP												
CONTRACTOR SUPPORT				0.204								
58												
INSTALLATION OF HARDWARE												
FY-10 (Active)	1 KITS				[1]	1.800						
FY-12 (Active)	3 KITS						[1]	1.550			[2]	2.560
TOTAL INSTALL					1	1.800	1	1.550			2	2.560
TOTAL COST (BP-1100)			1	7.966		2.840	3	20.700				2.560
(Totals may not add due to rounding)												
INSTALLATION QTY					1		1				2	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									4	26.912
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									4	26.912
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										1.040
SIM/TRAINER										
SUPPORT- EQUIP										
CONTRACTOR SUPPORT										0.204
58										
INSTALLATION OF HARDWARE										
FY-10 (Active)	1 KITS								[1]	1.800
FY-12 (Active)	3 KITS								[3]	4.110
TOTAL INSTALL									4	5.910
TOTAL COST (BP-1100)									4	34.066
(Totals may not add due to rounding)										

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
INSTALLATION QTY									4	

Method of Implementation: Contract Field Team

Initial Lead Time: 10 Months

Follow-On Lead Time: 5 Months

**Milestones**

	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>
Contract Date (Month/CY)		01/10		01/12
Delivery Date (Month/CY)		11/10		06/12

**Installation Schedule**

Quarter	<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input									1					1							1		1	
Output										1						1					1			1

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. STU III Replacement MN- 4393

CLC: E-4 Class: P

Models of Systems Affected: E-4B

Center: OC-ALC - Tinker AFB Okla City, OK

PE 0302015F

Team INFO

**Description/Justification**

The STU III Replacement project replaces the current Secure Telephone Units III (STU III) on board the E-4B with a more reliable secure voice system.

The National Security Agency (NSA) set a decertification date for the STU IIIR driving the need for a new secure voice system that is certified for aircraft use. This modification will integrate a secure voice system that is certified for aircraft use into the E-4B, and it is broken into two phases. Phase I integrated a now cryptographic system to meet NSA requirements. Phase I was completed in 2009. Phase II is integrating a modern, logistically supportable handset.

Aircraft Breakdown: ACTIVE 4, RESERVE 0, ANG 0, TOTAL 4

**Development Status**

The development is complete.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	4	12.082					2	9.000			2	10.700
INSTALL KITS Group A (Guard)	0											
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	4	12.082					2	9.000			2	10.700
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												

**Projected Financial Plan Continued**

		<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
DATA			0.393		0.625								
SIM/TRAINER													
SUPPORT- EQUIP													
CONTRACTOR SUPPORT													
INSTALLATION OF HARDWARE													
FY-09 (Active)	4 KITS	[4]											
FY-12 (Active)	2 KITS							[2]	2.500				
FY-13 (Active)	2 KITS											[2]	2.800
TOTAL INSTALL		4						2	2.500			2	2.800
TOTAL COST (BP-1100)		4	12.475		0.625			2	11.500			2	13.500
(Totals may not add due to rounding)													
INSTALLATION QTY		4						2				2	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									8	31.782
INSTALL KITS Group A (Guard)									0	
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									8	31.782
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										1.018
SIM/TRAINER										
SUPPORT- EQUIP										
CONTRACTOR SUPPORT										
INSTALLATION OF HARDWARE										
FY-09 (Active)	4 KITS								[4]	
FY-12 (Active)	2 KITS								[2]	2.500
FY-13 (Active)	2 KITS								[2]	2.800
TOTAL INSTALL									8	5.300
TOTAL COST (BP-1100)									8	38.100
(Totals may not add due to rounding)										



UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. MILSTAR Ultra High Frequency (UHF) SATCOM System Replacement MN- 4399  
Models of Systems Affected: E-4B Center: OC-ALC - Tinker AFB Okla City, OK

CLC: E-4 Class: P  
PE 0302015F Team INFO

**Description/Justification**

The MILSTAR Ultra High Frequency (UHF) SATCOM System Replacement program exchanges the KG-33 crypto operating in the Message Indicator (MI) mode, which is required to transmit and receive messages over the MILSTAR Ultra High Frequency (UHF) network. This investment is required to keep the E-4B Global Summary Messages (GSM) equipment compatible with the network and to ensure Integrated Tactical Warning Attack/Assessment (ITWAA) compliance. The Crypto Modernization effort currently underway for the KG-3X family of devices does not include the KG-33's that operate in the MI mode. This modification will replace the current KG-33's operating in the MI mode with approved cryptographic devices and associated radio equipment for the GSM network. Contractor support consists entirely of Advisory & Assistance Services (A&AS).

Aircraft Breakdown: ACTIVE 4, RESERVE 0, ANG 0, TOTAL 4

**Development Status**

N/A

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)			0		2	3.106	2	3.550				
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS			0		2	3.106	2	3.550				
KITS NONRECUR Group A (Active)			[0]	0.225								
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR			[0]	0.225								
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
DATA								2.300				
SIM/TRAINER												
SUPPORT- EQUIP												
CONTRACTOR SUPPORT				0.058								
INSTALLATION OF HARDWARE												
FY-11 (Active)	2 KITS				[2]	1.700						
FY-12 (Active)	2 KITS						[2]	1.850				
TOTAL INSTALL					2	1.700	2	1.850				
TOTAL COST (BP-1100)			0	0.283	2	4.806	2	7.700				
(Totals may not add due to rounding)												
INSTALLATION QTY					2		2					

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									4	6.656
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									4	6.656
KITS NONRECUR Group A (Active)									[0]	0.225
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									[0]	0.225
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										2.300
SIM/TRAINER										
SUPPORT- EQUIP										
CONTRACTOR SUPPORT										0.058
INSTALLATION OF HARDWARE										
FY-11 (Active)	2 KITS								[2]	1.700
FY-12 (Active)	2 KITS								[2]	1.850
TOTAL INSTALL									4	3.550
TOTAL COST (BP-1100)									4	12.789
(Totals may not add due to rounding)										
INSTALLATION QTY									4	

Method of Implementation: Contract Field Team

Initial Lead Time: 5 Months

Follow-On Lead Time: 5 Months

**Milestones**

	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>
Contract Date (Month/CY)			01/11	01/12
Delivery Date (Month/CY)			06/11	06/12

**Installation Schedule**

	<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>							
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input										1	1			1	1																					
Output										1	1			1	1																					

  

	<u>FY-16</u>				<u>FY-17</u>				<u>FY-18</u>				<u>FY-19</u>				<u>FY-20</u>				<u>FY-21</u>				<u>FY-22</u>				<u>FY-23</u>							
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																				
Output																																				

02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Secure, Survivable Voice Communication MN- 4406

CLC: E-4 Class: P

Models of Systems Affected: E-4B

Center: OC-ALC - Tinker AFB Okla City, OK

PE 0302015F

Team INFO

**Description/Justification**

Secure, Survivable Communication modifications will upgrade and replace existing systems required to meet existing National Security Presidential Directive (NSPD)-28 and NSPD-51/Homeland Security Presidential Directive (HSPD)-20 requirements and to ensure continued connectivity and interoperability as satellite and communications infrastructure evolves. This program will be executed incrementally.

The first increment is upgrading the Super High Frequency (SHF) system to replace the most critically obsolete components to ensure that the system remains operable and logistically supportable. A replacement to the SHF system is required as secure, survivable communications capability transitions from the Defense Satellite Communications System (DSCS). This increment will be completed in FY13.

Beginning in FY12, the next increment will install Family of Beyond-Line-of-Site Terminals (FAB-T) and the Presidential National Voice Conferencing (PNVC). FAB-T Command Post Terminals will replace the MILSTAR Terminal and provide access to protected wideband Advanced Extremely High Frequency (AEHF) satellite networks. PNVC replaces Survivable Emergency Conferencing Network (SECN), which will not be interoperable with the AEHF satellite network.

Aircraft Breakdown: ACTIVE 4, RESERVE 0, ANG 0, TOTAL 4

**Development Status**

The development for the E-4 SHF was funded with FY11 RDT&E.

The FAB-T equipment and PNVC projects are to be developed under other Program Elements. The E-4 program must provide the integration.

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)					[1]	7.000		4.177				0.019
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)					[1]	7.000		4.177				0.019
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)			0		1	4.200	1	4.500			1	4.800
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS			0		1	4.200	1	4.500			1	4.800
KITS NONRECUR Group A (Active)			[0]									
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR			[0]									
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA						2.800						
SIM/TRAINER												
SUPPORT- EQUIP												
CONTRACTOR SUPPORT												
INSTALLATION OF HARDWARE												
FY-11 (Active) 1 KITS								[1]	1.500			
FY-12 (Active) 1 KITS											[1]	1.200
FY-13 (Active) 1 KITS												
FY-15 (Active) 1 KITS												
FY-16 (Active) 1 KITS												
TOTAL INSTALL								1	1.500		1	1.200
TOTAL COST (BP-1100)								1	6.000		1	6.000
(Totals may not add due to rounding)				0		1	7.000					
INSTALLATION QTY								1			1	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		0.704		1.700					[1]	13.600
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)		0.704		1.700					[1]	13.600
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)			1	2.501	1	4.431			5	20.432
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS			1	2.501	1	4.431			5	20.432
KITS NONRECUR Group A (Active)									[0]	
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									[0]	
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										2.800
SIM/TRAINER										
SUPPORT- EQUIP										
CONTRACTOR SUPPORT										
INSTALLATION OF HARDWARE										
FY-11 (Active)	1 KITS								[1]	1.500
FY-12 (Active)	1 KITS								[1]	1.200
FY-13 (Active)	1 KITS					[1]	1.700		[1]	1.700
FY-15 (Active)	1 KITS									
FY-16 (Active)	1 KITS									
TOTAL INSTALL					1	1.700			3	4.400

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL COST (BP-1100) (Totals may not add due to rounding)			1	2.501	1	6.131			5	27.632
INSTALLATION QTY	1				1		1		5	

Method of Implementation: Contract Field Team

Initial Lead Time: 8 Months

Follow-On Lead Time: 8 Months

**Milestones**

	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>
Contract Date (Month/CY)			03/11	02/12	02/13		03/15	03/16
Delivery Date (Month/CY)			11/11	10/12	10/13		11/15	11/16

**Installation Schedule**

	<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input													1								1											
Output													1								1											
Quarter	1	2	3	4	1	2	3	4																								
Input	1				1																											
Output	1				1																											

02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. E-4B COMMUNICATION NAVIGATION SURVEILLANCE/AIR TRAFFIC MANAGEMENT I MN- 9709D  
 Models of Systems Affected: E-4B Center: OC-ALC - Tinker AFB Okla City, OK

CLC: E-4 Class: P  
 PE 0302015F Team INFO

**Description/Justification**

The CNS/ATM modification upgrades the air traffic communications systems to improve Navigation and Instrument Approach capabilities. These modifications are required to comply with both U.S. and international air traffic management requirements and maintain world-wide (anytime/anywhere) availability. This is an incremental program. The current increment will include the following modifications: An Automatic Dependent Surveillance - Broadcast (ADS-B) Out capability, a Mode 5 Identification Friend or Foe (IFF), Flight Management Computer (FMC) upgrades, and a Multi-Mode Receiver for Precision Global Positioning System (GPS) Approaches.

Future requirements to meet navigation performance will be addressed incrementally.

Quantities are based on kits for each modification.

Aircraft Breakdown: ACTIVE 4, RESERVE 0, ANG 0, TOTAL 4

**Development Status**

RDT&E begins in FY10 and includes prototype kit and install. On-going RDT&E will be required to meet evolving CNS/ATM requirements.

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)			[1]	10.231		2.747		0.300				
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)			[1]	10.231		2.747		0.300				
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)			0		1	1.580	1	1.600			1	1.650
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS			0		1	1.580	1	1.600			1	1.650
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA								2.282				
SIM/TRAINER												
SUPPORT- EQUIP												
CONTRACTOR SUPPORT												
INSTALLATION OF HARDWARE												
FY-11 (Active) 1 KITS							[1]	1.200				
FY-12 (Active) 1 KITS											[1]	1.425
FY-13 (Active) 1 KITS												
FY-14 (Active) 1 KITS												
FY-15 (Active) 1 KITS												
FY-16 (Active) 1 KITS												
TOTAL INSTALL								1	1.200		1	1.425
TOTAL COST (BP-1100)				0		1	1.580	1	5.082		1	3.075
(Totals may not add due to rounding)												
INSTALLATION QTY								1			1	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		3.364		3.489					[1]	20.131
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)		3.364		3.489					[1]	20.131
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	1	1.720	1	1.830	1	1.860			6	10.240
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	1	1.720	1	1.830	1	1.860			6	10.240
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										2.282
SIM/TRAINER										
SUPPORT- EQUIP										
CONTRACTOR SUPPORT										
INSTALLATION OF HARDWARE										
FY-11 (Active)			1 KITS						[1]	1.200
FY-12 (Active)			1 KITS						[1]	1.425
FY-13 (Active)			1 KITS	[1]	1.417				[1]	1.417
FY-14 (Active)			1 KITS	[1]	1.390				[1]	1.390
FY-15 (Active)			1 KITS			[1]	1.684		[1]	1.684
FY-16 (Active)			1 KITS					1	[1]	

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL INSTALL	1	1,417	1	1,390	1	1,684	1		6	7,116
TOTAL COST (BP-1100) (Totals may not add due to rounding)	1	3,137	1	3,220	1	3,544			6	19,638
INSTALLATION QTY	1		1		1		1		6	

Method of Implementation: Contract Field Team

Initial Lead Time: 9 Months

Follow-On Lead Time: 9 Months

**Milestones**

	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>
Contract Date (Month/CY)			01/11	01/12	01/13	01/14	01/15	01/16
Delivery Date (Month/CY)			10/11	10/12	10/13	10/14	10/15	10/16

**Installation Schedule**

	<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input												1								1				1								1
Output												1								1				1								1

  

	<u>FY-16</u>				<u>FY-17</u>			
	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4
Input	1				1			
Output	1				1			

UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: E-8C</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$74.841	\$188.504	\$29.058	\$	\$29.058	\$72.789	\$72.327	\$26.079	\$27.063

	2010	2011	2012	2013	2014	2015	2016
AFR	0	0	0	0	0	0	0
ANG	0	129.900	4.000	35.400	35.400	35.400	6.900

This line item funds modifications to the E-8C aircraft. The E-8C is a modified Boeing 707-300 airframe that performs the Joint Surveillance and Target Attack Radar System (JSTARS) mission. The JSTARS was developed for ground surveillance, targeting, and battle management.

The program funding includes reductions for overhead reduction efficiencies that are not intended to impact program content. The efficiencies reductions total \$9.658M in FY 12.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	38198	Prime Mission Equipment - Diminishing Manufacturing Sources (PME- DMS)		50.4	3.0		3.0	38.6	48.2	21.3			161.4
	38199	JSTARS Re-engining	31.3	121.7	13.5		13.5	7.9	13.2				273.8
	38200	RELIABILITY, MAINTAINABILITY, AVAILABILITY (RMA) and FLEET RETROFIT MODS	1.0	5.2	3.2		3.2	7.8	1.8	2.1	2.3	2.3	89.0
	38203	KILL CHAIN ENHANCEMENT MODIFICATIONS	9.0	3.6	1.6		1.6	2.0	2.0	0.6	3.1	3.2	124.5
	38205	JTRS INTEGRATION		0.7	7.2		7.2	9.0	7.2				24.1
	38206	Communications Navigation Surveillance/Air Traffic Management (CNS/ATM)						7.0		2.1	21.7	22.1	70.5
	38208	Enhanced Land Maritime Mode (ELMM)	33.6	6.9	0.7		0.7	0.4					60.2
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			74.8	188.5	29.1		29.1	72.8	72.3	26.1	27.1	27.6	803.5

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

P-1 SHOPP LIST ITEM NO. 71		PAGE NO. 1	
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>	<b>P-1 LINE ITEM NOMENCLATURE: E-8C</b>
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<u>CLASS</u>	<u>MOD</u> <u>NR</u>	<u>MODIFICATION</u> <u>TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12OCO</u>	<u>FY-12Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST</u> <u>TO GO</u>	<u>TOTAL</u> <u>PROG</u>
<b>TOTAL FOR WEAPON SYSTEM E-8C</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 71	PAGE NO. 2
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02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. JSTARS Re-engining MN- 38199

CLC: E-8C Class: P

Models of Systems Affected:

Center: ESC - Hanscom AFB, MA

PE 0207581F

Team INFO

**Description/Justification**

Modification required to upgrade JSTARS fleet of 17 operational, one test (test a/c paid for with RDT&E funds), and one in-flight trainer aircraft with a new Propulsion Pod System (PPS) in order to meet current ORD requirements. The re-engining program includes the purchase and installation of new engines, thrust reversers, nacelles, pylons, fan, exhaust duct, and all associated components and initial spares along with the upgrade of the training devices.

Non Recurring Engineering (NRE) refers to engineering research, design, test and evaluation of required production changes allowing JT8D-219 engines and the PPS to meet Joint STARS requirements. Specific tasks include creating production retrofit drawings, creating Interface Control Documents (ICDs) for all subsystems, interface with the supplier to receive existing documentation and technical data, maintain cognizance of the Supplier Federal Aviation Administration (FAA) certification program, interface with government divisions to establish airworthiness requirements and approvals, and conduct engineering analysis and evaluation.

This modification has related RDT&E funding in PE 0207581F.

Full rate production for this modification is contingent on Operational Test scheduled for FY 13. Full rate production will include a total of 18 aircraft to be modified with procurement funds - 17 operational and 1 pilot trainer. Current program of record is to re-engine 4 aircraft.

Aircraft Breakdown: ACTIVE 0, RESERVE 0, ANG 4, TOTAL 4

**Development Status**

The development contract will include the Non Recurring Engineering (NRE) phase associated with the integration of an engines and propulsion pod system on the Joint STARS fleet. This will include all associated drawings, tech manuals, flight test, and trainer modifications to field a fully operational and supportable propulsion pod system upgrade.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)				106.839		71.645		37.739				
RDT & E (3600) (Reserve)												
Total RDT & E (3600)				106.839		71.645		37.739				
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)												
INSTALL KITS Group A (Guard)						[4]	5.000					
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS						[4]	5.000					
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)	2	86.254		12.975	2	90.000						

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT	2	86.254		12.975	2	90.000						
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)						3.097						
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC						3.097						
CHANGE ORDERS						3.451						
DATA												
SIM/TRAINER												
SUPPORT- EQUIP				13.072		8.100						
OTHER				0.083		0.869		3.217				
CONTRACTOR SUPPORT				3.201		7.107		5.090				2.709
PMA				1.982		4.079		1.876				1.842
INSTALLATION OF HARDWARE												
FY-07 (Guard)	1 KITS						[1]	3.300				
FY-08 (Guard)	1 KITS										[1]	3.300
FY-11 (Guard)	2 KITS											
TOTAL INSTALL							1	3.300			1	3.300
TOTAL COST (BP-1100)	2	86.254		31.313	2	121.703		13.483				7.851
(Totals may not add due to rounding)												
INSTALLATION QTY							1				1	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										216.223
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										216.223
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)									[4]	5.000
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									[4]	5.000
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)									4	189.229
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT									4	189.229
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										3.097
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										3.097
CHANGE ORDERS										3.451
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										21.172
OTHER										4.169
CONTRACTOR SUPPORT		4.512								22.619
PMA		2.068								11.847
INSTALLATION OF HARDWARE										
FY-07 (Guard)	1 KITS								[1]	3.300
FY-08 (Guard)	1 KITS								[1]	3.300
FY-11 (Guard)	2 KITS		[2]	6.600					[2]	6.600
TOTAL INSTALL		2	6.600						4	13.200

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL COST (BP-1100) (Totals may not add due to rounding)		13.180							4	273.784
INSTALLATION QTY	2								4	

Method of Implementation: Combination

Initial Lead Time: 24 Months

Follow-On Lead Time: 24 Months

**Milestones**

	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>
Contract Date (Month/CY)						03/11
Delivery Date (Month/CY)						03/13

**Installation Schedule**

	<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1																															
Input																																
Output																																
Quarter	1	2	3	4	1	2	3	4																								
Input		1					2																									
Output	1		1				2																									

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. JTRS INTEGRATION MN- 38205

CLC: E-8C Class: P

Models of Systems Affected: E-8C

Center: ESC - Hanscom AFB, MA

PE 0207581F

Team INFO

**Description/Justification**

The Communications and Networking Upgrade (CNU) is a multi-phased communications upgrade roadmap for the E-8C Joint STARS. CNU Phase 1 resolves Cryptographic Modernization issues, frequency remapping issues, and diminishing manufacturing sources (DMS) issues faced by the communications systems on the E-8C. Included in CNU Phase 1 will be the integration of the Multi-Informational Distribution System Joint Tactical Radio System (MIDS JTRS) terminal. It will provide the E-8C with the ability to maintain the mission essential Link 16 capability.

Phase I is a joint effort along with the AF JTRS program office and Air Combat Command's Air Force Command and Control Integration Center. The AF JTRS SPO is providing the MIDS JTRS equipment, and Joint STARS is providing the installation and integration onto the platform. RDT&E is fully and jointly funded by both the Joint STARS PE (207581F) and the AF JTRS PE (27423F). The Joint STARS PE (207581F) is providing a total of \$7.951M (RDT&E). The AF JTRS PE (27423F) is providing \$46.650M (RDT&E).

Future programs of the JSTARS communication upgrade roadmap will provide network functionality and info services to interact with additional platforms and end-users of E-8C data. These capabilities will provide video and other imagery, exchanges with other Intelligence, Surveillance, and Reconnaissance (ISR) platforms and data archives, a wide assortment of data products associated with both sensor improvements and an enhanced battle management, and the E-8 C2 role. Efforts to include Wideband Line of Site (LOS), Wideband Beyond Line of Site (BLOS) and networking upgrades including: continued JTRS waveform integration; Multi-Platform Common Data Link (MP-CDL); Advanced Extremely High Frequency (AEHF); Wideband Networking Waveform (WNW); Enhanced Synthetic Aperture Radars (ESARs); Automatic Tasking Orders (ATOs), Tactical Targeting Network Technology (TTNT), and Family of Advanced Beyond-Line-of-Sight Terminals (FAB-T). This modification has related RDT&E funding in PE 0207581F.

There are a total of 17 aircraft to be modified with procurement funds.

The test aircraft, T-3, will be modified with RDT&E funds.

Aircraft Breakdown: ACTIVE 0, RESERVE 0, ANG 17, TOTAL 17

**Development Status**

CNU Phase I development program was awarded Sep 2009.

MIDS JTRS to be installed on test aircraft Mar 2011. Flight test will start June 2011 and will end Jul 2011.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)		5.851		1.120		0.792		0.045				
RDT & E (3600) (Reserve)												
Total RDT & E (3600)		5.851		1.120		0.792		0.045				
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)												
INSTALL KITS Group A (Guard)	0						6	0.918			7	1.071
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	0						6	0.918			7	1.071

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)	[0]							0.189				
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR	[0]							0.189				
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS								0.704				0.925
DATA								0.926				0.825
SIM/TRAINER							[2]	1.326				
SUPPORT- EQUIP												
CONT LIABILITY												
CONTRACTOR SUPPORT								0.271				0.331
PMA						0.020		2.902				0.799
OTHER						0.650						0.016
INSTALLATION OF HARDWARE												
FY-12 (Guard)	6 KITS										[6]	3.372
FY-13 (Guard)	7 KITS										[3]	1.686
FY-14 (Guard)	4 KITS											
TOTAL INSTALL											9	5.058
TOTAL COST (BP-1100)		0				0.670	6	7.236			7	9.025
(Totals may not add due to rounding)												
INSTALLATION QTY											9	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										7.808
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										7.808
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)	4	0.612							17	2.601
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	4	0.612							17	2.601
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)									[0]	0.189
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									[0]	0.189
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS		0.679								2.308
DATA		0.480								2.231
SIM/TRAINER									[2]	1.326
SUPPORT- EQUIP										
CONT LIABILITY										
CONTRACTOR SUPPORT		0.278								0.880
PMA		0.605								4.326
OTHER		0.016								0.682
INSTALLATION OF HARDWARE										
FY-12 (Guard)	6 KITS								[6]	3.372
FY-13 (Guard)	7 KITS	[4]	2.248						[7]	3.934
FY-14 (Guard)	4 KITS	[4]	2.248						[4]	2.248



UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: H-1</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$18.224	\$2.457	\$5.280	\$	\$5.280	\$5.476	\$7.271	\$7.318	\$2.593

This line item funds modifications to UH-1N and UH-1H/TH-1H aircraft. The two-engine UH-1N is a light, utility helicopter primarily used for missile site and range support and distinguished visitor airlift support. The Huey II Modernization budgeted in FY2012 continues modification of single-engine UH-1H aircraft to TH-1H configuration for use in the helicopter track of USAF Specialized Undergraduate Pilot Training. The specific modifications budgeted and programmed are below.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	_2802	HUEY II MODERNIZATION	16.7	1.0	0.9		0.9	1.0	1.0	1.0	1.0		141.4
	3149T	TRAFFIC ALERT & COLLISION AVOIDANCE SYSTEM		0.0	3.0		3.0	3.0	4.8	4.8			15.5
	99999X	LOW COST MODIFICATIONS	1.5	1.5	1.4		1.4	1.5	1.5	1.6	1.6		10.6
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			18.2	2.5	5.3		5.3	5.5	7.3	7.3	2.6		167.5
<b>TOTAL FOR WEAPON SYSTEM H-1</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 72	PAGE NO. 1	
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications					P-1 LINE ITEM NOMENCLATURE: HH-60				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$63.920	\$92.630	\$34.371	\$0.000	\$34.371	\$26.405	\$21.533	\$14.837	\$11.120

This line item funds modifications to the HH-60 helicopter. The HH-60 Pave Hawk is a twin engine, aerial refuelable helicopter whose primary operational mission is Combat Search and Rescue (CSAR) / Personnel Recovery (PR). It is the most rapidly deployable, long range, combat rescue helicopter in the Air Force inventory. The aircraft and aircrews conduct day / night / marginal weather alert response missions to recover downed aircrew or other isolated personnel in hostile or permissive environments. The HH-60G also performs disaster relief, Noncombatant Evacuation Operations, counter-drug, civil SAR, and Space Shuttle support. The major modification efforts budgeted in FY12 include maintenance predictive / aircraft structural enhancements, safety and survivability upgrades. Specific modifications budgeted and programmed are below and include the Structural Integrity Program, Lightweight Airborne Recovery System V12 Upgrade, Multi-Function Color Display, and an Avionics/Electrical Upgrade.

FY2011 funding totals include \$81M requested for Overseas Contingency Operations.

The program funding includes reductions for efficiencies that are not intended to impact program content. The efficiencies reductions total \$.157M in FY12.

Projected allocations for Reserve Component requirements (modification kits and installation costs, subject to Total Force mission priorities and aircraft availability):

	2010	2011	2012	2013	2014	2015	2016
AFR	0	0	3.600	3.300	2.700	1.300	0
ANG	0	3.300	5.200	4.100	2.700	1.700	0

CLASS	MOD NR	MODIFICATION TITLE	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16	COST TO GO	TOTAL PROG
P	8254	ALTITUDE HOLD AND HOVER SYSTEM (AHHS)		0.0	1.2		1.2	1.2	1.0	1.0			19.5
	8258	FLIR	44.1	81.0									162.8
	8560	SERVICE LIFE EXTENSION PROGRAM	7.3	4.1	2.7		2.7						34.3
	8563	LIGHTWEIGHT AIRBORNE RECOVERY SYSTEM V12 UPGRADE	0.0	0.2	4.8		4.8	2.3					19.4
	8835	Improved Ballistic Armor Sub-System		0.4									1.4
	8840	Vibration Monitoring System (VMS)		0.7	3.7		3.7	3.8	4.0	1.9			39.4
	8841	Situation Awareness Data-Link	1.2	0.4									22.0

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 73	PAGE NO. 1	
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UNCLASSIFIED

BUDGET ITEM JUSTIFICATION  
(EXHIBIT P-40)

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY:

AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications

P-1 LINE ITEM NOMENCLATURE: HH-60

CLASS	MOD NR	MODIFICATION TITLE	FY-10	FY-11	FY-12	FY-12		FY-13	FY-14	FY-15	FY-16	COST TO GO	TOTAL PROG
						OC	Total						
	8844	Multi-function Color Display	1.7	0.1	2.1		2.1	1.1					27.1
	8850	MODE 5		1.6	7.9		7.9	7.2	5.6	1.6	6.1		30.0
	8851	Gun Replacement	10.0	4.0									14.0
	8852	CSAR Avionics/Electrical Upgrade			10.5		10.5	10.2	10.3	10.3	5.0		46.4
	99999X	LOW COST MODIFICATIONS	0.8	0.1	1.4		1.4	0.6	0.6	0.0			4.2
	Z88888	ADJUSTMENTS	-1.3										-1.3
<b>TOTAL FOR CLASS P</b>			63.9	92.6	34.4		34.4	26.4	21.5	14.8	11.1		419.3
<b>TOTAL FOR WEAPON SYSTEM HH-60</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

P-1 SHOPP LIST ITEM  
NO. 73

PAGE NO.  
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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. MODE 5 MN- 8850

CLC: HH-60 Class: P

Models of Systems Affected: HH-60G

Center: WRALC Robins AFB GA

PE 0207224F

Team AIR

**Description/Justification**

The Mode 5 modification program is an OSD-mandated upgrade to the HH-60G's IFF system--the primary means of aircraft identification during Air Defense operations. It provides the HH-60G with a system that uses modern modulation, coding, and cryptographic techniques to overcome performance and security limitations in the current systems, and provides expanded data handling capabilities to securely pass GPS position and other data.

Without this system aircraft are restricted from flying in certain airspaces.

This program has associated FY11 RDT&E funding in PE 0207224F.

Aircraft Breakdown: ACTIVE 67, RESERVE 15, ANG 17, TOTAL 99

**Development Status**

Mode 5 system requires a certified Global Positioning System (GPS) with Selective Availability / Anti-Spoofing Module (SAASM), currently not available on the HH-60G. Development in FY11 will integrate and test the Mode 5 (APX-119 Identification Friend or Foe) with GPS capabilities. Funding in FY12 will be used for kit procurement and installations.

Installation will be a combination of Contractor Field Teams as well as Depot Level install--this will maximize Air Force resources and minimize downtime.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)					1	0.986						
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)					1	0.986						
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)					0		9	0.225			9	0.239
INSTALL KITS Group A (Guard)					0		8	0.200			9	0.239
INSTALL KITS Group A (Reserve)					0		8	0.200			7	0.186
TOTAL: INSTALL KITS					0		25	0.625			25	0.664
KITS NONRECUR Group A (Active)					1	0.115						
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR					1	0.115						
EQUIPMENT Group B (Active)					[2]	0.360	[9]	1.620			[9]	1.717
EQUIPMENT Group B (Guard)					[0]		[8]	1.440			[9]	1.717
EQUIPMENT Group B (Reserve)					[0]		[8]	1.440			[7]	1.336

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL: EQUIPMENT					[2]	0.360	[25]	4.500			[25]	4.770
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA						0.300		0.020				
SIM/TRAINER											[3]	0.250
SUPPORT- EQUIP												
FLIGHT TEST						0.100		0.270				
INITIAL SPARES											[5]	0.954
KIT PROOF								0.025				
SOFTWARE INTG LAB						0.270		1.900				
OGC						0.389						
INSTALLATION OF HARDWARE												
FY-11 (Active)	2 KITS				[2]	0.045						
FY-12 (Active)	9 KITS						[9]	0.204				
FY-12 (Guard)	8 KITS						[8]	0.181				
FY-12 (Reserve)	8 KITS						[8]	0.181				
FY-13 (Active)	9 KITS									[9]	0.204	
FY-13 (Guard)	9 KITS									[9]	0.204	
FY-13 (Reserve)	7 KITS									[7]	0.158	
FY-14 (Active)	20 KITS											
FY-15 (Active)	6 KITS											
FY-16 (Active)	21 KITS											
TOTAL INSTALL					2	0.045	25	0.566			25	0.566
TOTAL COST (BP-1100)					2	1.579	25	7.906			25	7.202
(Totals may not add due to rounding)												
INSTALLATION QTY					2		25				25	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)									1	0.986
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)									1	0.986
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	20	0.562	6	0.179	21	0.625			65	1.829
INSTALL KITS Group A (Guard)									17	0.439
INSTALL KITS Group A (Reserve)									15	0.386
TOTAL: INSTALL KITS	20	0.562	6	0.179	21	0.625			97	2.654
KITS NONRECUR Group A (Active)									1	0.115
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									1	0.115
EQUIPMENT Group B (Active)	[20]	4.045	[6]	1.286	[21]	4.502			[67]	13.530
EQUIPMENT Group B (Guard)									[17]	3.157
EQUIPMENT Group B (Reserve)									[15]	2.776
TOTAL: EQUIPMENT	[20]	4.045	[6]	1.286	[21]	4.502			[99]	19.463
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS						0.500				0.500
DATA										0.320
SIM/TRAINER									[3]	0.250
SUPPORT- EQUIP										
FLIGHT TEST										0.370
INITIAL SPARES									[5]	0.954
KIT PROOF										0.025
SOFTWRE INTG LAB										2.170
OGC		0.550		0.000						0.939
INSTALLATION OF HARDWARE										
FY-11 (Active)			2 KITS						[2]	0.045
FY-12 (Active)			9 KITS						[9]	0.204

**Continued**

		<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-12 (Guard)	8 KITS									[8]	0.181
FY-12 (Reserve)	8 KITS									[8]	0.181
FY-13 (Active)	9 KITS									[9]	0.204
FY-13 (Guard)	9 KITS									[9]	0.204
FY-13 (Reserve)	7 KITS									[7]	0.158
FY-14 (Active)	20 KITS	[20]	0.452							[20]	0.452
FY-15 (Active)	6 KITS			[6]	0.135					[6]	0.135
FY-16 (Active)	21 KITS					[21]	0.466			[21]	0.466
TOTAL INSTALL		20	0.452	6	0.135	21	0.466			99	2.230
TOTAL COST (BP-1100)		20	5.609	6	1.600	21	6.093			99	29.989
(Totals may not add due to rounding)											
INSTALLATION QTY		20		6		21				99	

Method of Implementation: Combination

Initial Lead Time: 18 Months

Follow-On Lead Time: 12 Months

**Milestones**

	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>
Contract Date (Month/CY)		11/10	11/11	11/12	11/13	11/14	11/15
Delivery Date (Month/CY)		05/12	11/12	11/13	11/14	11/15	11/16

**Installation Schedule**

Quarter	<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>						
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
Input									2	6	6	6	7					6	6	6	7	5	5	5	5	2	2	1	1	5	5	5	6		
Output									2	6	6	6	7					6	6	6	7	5	5	5	5	2	2	1	1	5	5	5	6		

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. CSAR Avionics/Electrical Upgrade MN- 8852

CLC: HH-60 Class: P

Models of Systems Affected: HH-60G

Center: WRALC Robins AFB GA

PE 0207224F

Team AIR

**Description/Justification**

This modification will address upgrading critical HH-60G equipment including Right Hand Relay Panels and Aircraft Generators, Advanced Heading Reference Units, and a Communications Overhaul. The upgrades are due in part to obsolescence and advancing technology, and will address the necessary component replacement, wiring technical data and qualification testing.

This effort is a New Start for FY12.

This effort will be executed in three projects and will provide the following capabilities:

**Right Hand Relay Panel/Aircraft Generators:** Replaces the currently obsolete Right Hand Relay Panels (RHRP) with sustainable RHRPs being procured and sustained by the US Army. Purchase and installation of this item will give the Air Force Pave Hawk fleet commonality within the DoD. Concurrent with upgrading the RHRP will be the replacement of current on-board generators with those that can support the electrical requirements of the aircraft.

**Advanced Heading Reference Units:** Replaces currently obsolete gyroscopic devices with digital advanced heading reference units (AHRUs). Installing AHRUs will give the Air Force Pave Hawk fleet commonality within the DoD, reduce maintenance failure rates and reduce the overall weight of the aircraft.

**Communications Overhaul:** Combines communications modifications to replace obsolete communication equipment, streamline logistical supportability and resolve urgent operational needs requirements. Will include an additional satellite communications (SATCOM) radio, multi-spectrum radio, the ability to increase frequency capacity, correct frequency modulation (FM) immunity issues and allow for digital voice/data communications by SATCOM.

\* Installs will be a combination of Depot Level Modifications, using Contract Field Teams, Depot Labor, and O&I Level.

Aircraft Breakdown: ACTIVE 67, RESERVE 15, ANG 17, TOTAL 99

**Development Status**

The Army is the lead service for H-60 sustainment for the majority if not all the efforts being considered under this modification. The different modifications are currently in various stages of completion. Once funding is received Non-Recurring engineering will be established for the HH-60G which is a highly modified variant of the Army BlackHawk Helicopter.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)							15	1.177			17	1.334
INSTALL KITS Group A (Guard)							4	0.314			4	0.314
INSTALL KITS Group A (Reserve)							4	0.314			4	0.314
TOTAL: INSTALL KITS							23	1.805			25	1.962

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
KITS NONRECUR Group A (Active)							2	0.157				
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR							2	0.157				
EQUIPMENT Group B (Active)							[15]	3.753			[17]	4.253
EQUIPMENT Group B (Guard)							[4]	1.000			[4]	1.000
EQUIPMENT Group B (Reserve)							[4]	1.000			[4]	1.000
TOTAL: EQUIPMENT							[23]	5.753			[25]	6.253
EQUIP NONREC Group B (Active)							[2]	0.500				
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC							[2]	0.500				
CHANGE ORDERS												
DATA								0.075				
SIM/TRAINER							[1]	0.120				
SUPPORT- EQUIP												
*** See Remarks ***												
OGC								0.521				0.439
SPARES								0.270				0.270
ICS								0.040				0.040
INSTALLATION OF HARDWARE												
FY-12 (Active)	17 KITS						[17]	0.850				
FY-12 (Guard)	4 KITS						[4]	0.200				
FY-12 (Reserve)	4 KITS						[4]	0.200				
FY-13 (Active)	17 KITS										[17]	0.850
FY-13 (Guard)	4 KITS										[4]	0.200
FY-13 (Reserve)	4 KITS										[4]	0.200
FY-14 (Active)	17 KITS											
FY-14 (Guard)	4 KITS											
FY-14 (Reserve)	4 KITS											
FY-15 (Active)	16 KITS											
FY-15 (Guard)	5 KITS											

**Projected Financial Plan Continued**

		<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-15 (Reserve)	3 KITS												
TOTAL INSTALL								25	1.250			25	1.250
TOTAL COST (BP-1100)								25	10.491			25	10.214
(Totals may not add due to rounding)													
INSTALLATION QTY								25				25	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	17	1.334	16	1.256					65	5.101
INSTALL KITS Group A (Guard)	4	0.314	5	0.392					17	1.334
INSTALL KITS Group A (Reserve)	4	0.314	3	0.235					15	1.177
TOTAL: INSTALL KITS	25	1.962	24	1.883					97	7.612
KITS NONRECUR Group A (Active)									2	0.157
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									2	0.157
EQUIPMENT Group B (Active)	[17]	4.253	[16]	4.003					[65]	16.262
EQUIPMENT Group B (Guard)	[4]	1.000	[5]	1.251					[17]	4.251
EQUIPMENT Group B (Reserve)	[4]	1.000	[3]	0.750					[15]	3.750
TOTAL: EQUIPMENT	[25]	6.253	[24]	6.004					[97]	24.263
EQUIP NONREC Group B (Active)									[2]	0.500
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[2]	0.500
CHANGE ORDERS										
DATA										0.075
SIM/TRAINER									[1]	0.120
SUPPORT- EQUIP										
*** See Remarks ***										
OGC		0.521		0.949		3.627				6.057
SPARES		0.270		0.250		0.500				1.560
ICS		0.040		0.040		0.900				1.060
INSTALLATION OF HARDWARE										
FY-12 (Active)			17 KITS						[17]	0.850
FY-12 (Guard)			4 KITS						[4]	0.200
FY-12 (Reserve)			4 KITS						[4]	0.200

**Continued**

		<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-13 (Active)	17 KITS									[17]	0.850
FY-13 (Guard)	4 KITS									[4]	0.200
FY-13 (Reserve)	4 KITS									[4]	0.200
FY-14 (Active)	17 KITS	[17]	0.850							[17]	0.850
FY-14 (Guard)	4 KITS	[4]	0.200							[4]	0.200
FY-14 (Reserve)	4 KITS	[4]	0.200							[4]	0.200
FY-15 (Active)	16 KITS			[16]	0.800					[16]	0.800
FY-15 (Guard)	5 KITS			[5]	0.250					[5]	0.250
FY-15 (Reserve)	3 KITS			[3]	0.150					[3]	0.150
TOTAL INSTALL		25	1.250	24	1.200					99	4.950
TOTAL COST (BP-1100)		25	10.296	24	10.326		5.027			99	46.354
(Totals may not add due to rounding)											
INSTALLATION QTY		25		24						99	

Method of Implementation: Combination

Initial Lead Time: 12 Months

Follow-On Lead Time: 12 Months

**Milestones**

	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>
Contract Date (Month/CY)		02/13	02/14	02/15	02/16	02/17
Delivery Date (Month/CY)		02/14	02/15	02/16	02/17	02/18

**Installation Schedule**

Quarter	<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input					4	7	7	7					6	6	6	7	6	6	6	7	5	5	7	7
Output					4	7	7	7					6	6	6	7	6	6	6	7	5	5	7	7

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications					P-1 LINE ITEM NOMENCLATURE: RQ-4					
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16	
<b>COST (In Mil)</b>	\$134.448	\$119.415	\$89.177	\$0.000	\$89.177	\$55.478	\$23.441	\$107.168	\$113.814	

Totals include funding for PRCP Program Number, 252, Global Hawk.

This line item funds Global Hawk SIGINT to High Altitude Endurance Unmanned Vehicle. The primary modifications budgeted in FY12 are in support of the Global Hawk Aircraft ASIP retrofits. The specific modifications budgeted and programmed are below.

The program funding includes reductions for overhead reduction efficiencies that are not intended to impact program content. The efficiencies reductions total \$0.501M in FY12.

CLASS	MOD NR	MODIFICATION TITLE	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16	COST TO GO	TOTAL PROG
P	470001	GH Aircraft Mods	132.1	118.6	87.7	0.0	87.7	53.8	22.4	101.7	106.8		749.8
	470003	GH Ground Station Mods	2.4	0.8	1.5	0.0	1.5	1.6	1.0	5.4	7.0		28.5
<b>TOTAL FOR CLASS P</b>			134.4	119.4	89.2	0.0	89.2	55.5	23.4	107.2	113.8		778.3
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS</b>			0.0										0.0
<b>TOTAL FOR WEAPON SYSTEM RQ-4</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. GH Aircraft Mods MN- 470001

Models of Systems Affected: Block 10, 20, 30 and 40

Center: ASC - Wright Patterson AFB, OH

PE 0305220F

CLC: RQ-4 Class: P  
Team INFO

**Description/Justification**

The Global Hawk System provides high altitude, deep look, long endurance intelligence, surveillance, and reconnaissance (ISR) capability that complements space and other airborne collectors during peacetime, crisis, and war-fighting scenarios.

This funding procures the highly capable Global Hawk System, which is comprised of aircraft, payloads, ground segment, and support segment. The aircraft is an autonomous, high altitude, long-endurance, unmanned aircraft system (UAS). The RQ-4A is an imagery-intelligence (IMINT) UAS designed to employ 2000 pounds of payload. The RQ-4A has one configuration known as the Block 10. The Block 10 employs an IMINT system comprised of a synthetic aperture radar (SAR) sensor and an electro-optical (EO) / infrared (IR) sensor. These three sensors are called the integrated sensor suite (ISS). The RQ-4B UAS is designed to employ 3000 pounds of payload and enable multi-intelligence (multi-INT) collecting. The RQ-4B has three configurations: Block 20, Block 30, and Block 40. The Block 20 will employ upgraded SAR and EO/IR sensors known as the Enhanced Integrated Sensor Suite (EISS) in an IMINT only configuration. The Block 30 employs the same EISS sensors as the Block 20 and also integrates a wide spectrum signals intelligence (SIGINT) sensor called the Airborne Signals Intelligence Payload (ASIP) sensor that is used simultaneously to create a multi-INT platform. The Block 40 will only integrate the Multi-platform Radar Technology Insertion Program (MP-RTIP) radar sensor. The user will ultimately determine the optical mix of the quantities and payloads for each aircraft configuration based on operational requirements. The ground station (GS) includes the mission control element (MCE) and the launch and recovery element (LRE). The support segment includes aerospace ground equipment, tech orders, spares, support equipment, and training to enable operation of the Global Hawk System.

The Global Hawk System will be continually modified to maintain pace with the evolving threat and the increasing capabilities included in modernization efforts. These planned modifications include aircraft, ground station and support retrofits to incorporate new capabilities or meet mandated equipment standards.

A miscellaneous entry has been added to anticipate urgent operational low cost mods that occur in the execution year and are necessary for continued operational support of Combatant Commanders.

This program has associated Research Development Test and Evaluation funding in PE 0305220F, 0304260F, and 0207423F.

Footnotes: Not all equipment purchases install in the same year. Some aircraft modification components have 30 month lead times between long-lead purchases and installation. Due to procurement of previously installed kits in aircraft, A kit quantities don't match installations.

B Kits with either an Engine Turbine or an ASIP Sensor do not require an A Kit so there are more B Kits than A Kits.

Install costs for the 9 To Complete modifications total \$14M.

Aircraft Breakdown: ACTIVE 53, RESERVE 0, ANG 0, TOTAL 53

**Development Status**

Block 10 is fielded and production is complete. Blocks 20-40 are in development. Block 20 first production lot was awarded in 2004, and entered development test in FY2007. Block 30 contract was awarded in FY05 and Block 40 was awarded in FY06. Ongoing modifications support emerging requirements and reliability/maintainability issues. FY12 modifications will largely consist of Block 30 ASIP sensor retrofits and engine turbine retrofits.

Global Hawk Block 30Ms will replace the U-2 as part of the High Altitude Transition. Global Hawk began procuring Block 30s, which include the EISS sensors, as the ASIP sensor program ran into delays. As a result, the original Block 30s only have the EISS instead of both sensors. This funding will be used to complete the purchase and retrofit of the ASIP sensors in the aircraft already delivered. For further ASIP detail, see documentation for PE 0304260 (ASIP).

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	5	0.052		0.000	7	0.490	7	0.500	0	0.000	6	0.440
INSTALL KITS Group A (Guard)	0											
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	5	0.052		0.000	7	0.490	7	0.500	0	0.000	6	0.440
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)	[8]	126.515	[3]	130.591	[7]	112.874	[19]	81.010	[0]	0.000	[17]	36.043
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT	[8]	126.515	[3]	130.591	[7]	112.874	[19]	81.010	[0]	0.000	[17]	36.043
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP	[0]	0.000	[0]	0.000	[0]	0.000	[0]	0.000			[0]	0.000
MISC	[0]	0.000	[0]	1.500	[0]	1.500	[0]	1.500			[0]	1.500
INSTALLATION OF HARDWARE												
FY-07 (Active)	5 KITS	[5]	0.052									
FY-11 (Active)	7 KITS				[7]	3.721						
FY-12 (Active)	7 KITS						[7]	4.667				
FY-13 (Active)	6 KITS										[6]	15.845
FY-14 (Active)	21 KITS											
FY-15 (Active)	57 KITS											

**Projected Financial Plan Continued**

		<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-16 (Active)	51 KITS												
TOTAL INSTALL		5	0.052			7	3.721	7	4.667			6	15.845
TOTAL COST (BP-1100)		5	126.619		132.091	7	118.585	7	87.677	0	0.000	6	53.828
(Totals may not add due to rounding)													
INSTALLATION QTY		5				7		7				6	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	21	3.570	57	4.980	51	18.340			154	28.372
INSTALL KITS Group A (Guard)									0	
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	21	3.570	57	4.980	51	18.340			154	28.372
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)	[23]	4.706	[56]	78.231	[51]	73.292			[184]	643.262
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT	[23]	4.706	[56]	78.231	[51]	73.292			[184]	643.262
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP	[0]	0.000	[0]	0.000	[0]	0.000			[0]	0.000
MISC	[0]	1.500	[0]	1.500	0	1.500			[0]	10.500
INSTALLATION OF HARDWARE										
FY-07 (Active)			5 KITS						[5]	0.052
FY-11 (Active)			7 KITS						[7]	3.721
FY-12 (Active)			7 KITS						[7]	4.667
FY-13 (Active)			6 KITS						[6]	15.845
FY-14 (Active)	[21]	12.665	21 KITS						[21]	12.665
FY-15 (Active)			57 KITS	[57]	17.015				[57]	17.015

**Continued**

	51 KITS	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-16 (Active)						[51]	13.682			[51]	13.682
TOTAL INSTALL		21	12.665	57	17.015	51	13.682			154	67.647
TOTAL COST (BP-1100)		21	22.441	57	101.726	51	106.814			154	749.781
(Totals may not add due to rounding)											
INSTALLATION QTY		21		57		51				154	

Method of Implementation: Combination

Initial Lead Time: 30 Months

Follow-On Lead Time: 11 Months

**Milestones**

	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>
Contract Date (Month/CY)				02/11	03/11	07/11	02/12	02/13	01/14	01/15	01/16
Delivery Date (Month/CY)				01/12	02/12	06/12	01/13	01/14	12/14	12/15	12/16

**Installation Schedule**

	<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>			
	Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
Input					3	2														4	3			4	3							
Output						3	2															3	4			3	4					

  

	<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>				
	Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input		3	3		7	7	7		20	20	17		17	17	17		
Output			3	3		5	8	8	10	15	15	17		17	17	17	

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications					P-1 LINE ITEM NOMENCLATURE: HC/MC-130 Recap				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$1.958	\$1.944	\$0.431	\$34.000	\$34.431	\$1.926	\$1.920	\$1.917	\$1.952

Totals include funding for PRCP Program Number 257, HC/MC-130 Recap.

FY12 funding totals include \$34M requested for Overseas Contingency Operations.

HC/MC-130 Recapitalization will replace and augment the aging USAF fleets of combat rescue HC-130P/N and special operations MC-130E/P aircraft which are experiencing airworthiness, maintainability and operational limitations. This program provides a common baseline configuration aircraft.

The modifications budgeted in FY12 are low cost modifications to improve the reliability, maintainability, safety, and mission performance, to reduce logistics costs, and to implement fleet upgrades and enhancements to meet emerging requirements for the HC/MC-130J aircraft and associated training systems.

CLASS	MOD NR	MODIFICATION TITLE	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16	COST TO GO	TOTAL PROG
P	8629	LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)				34.0	34.0						34.0
	99999X	LOW COST MODIFICATIONS	2.0	1.9	0.4		0.4	1.9	1.9	1.9	2.0		12.0
<b>TOTAL FOR CLASS P</b>			2.0	1.9	0.4	34.0	34.4	1.9	1.9	1.9	2.0		46.0
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS</b>			0.0										0.0
<b>TOTAL FOR WEAPON SYSTEM HC/MC-130 Recap</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

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**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIPMENT Group B (Active)							[0]		[10]	26.440		
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT							[0]		[10]	26.440		
EQUIP NONREC Group B (Active)							[0]					
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC							[0]					
CHANGE ORDERS										0.278		
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
INSTALLATION OF HARDWARE												
FY-12 OCO (Active)	10 KITS									2.702	[4]	
TOTAL INSTALL										2.702	4	
TOTAL COST (BP-1100)							0		10	34.000		
(Totals may not add due to rounding)												
INSTALLATION QTY											4	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									10	4.580
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									10	4.580
KITS NONRECUR Group A (Active)									[0]	
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									[0]	
EQUIPMENT Group B (Active)									[10]	26.440
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT									[10]	26.440
EQUIP NONREC Group B (Active)									[0]	
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[0]	
CHANGE ORDERS										0.278
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
INSTALLATION OF HARDWARE										
FY-12 OCO (Active)	10 KITS	[6]							[10]	2.702
TOTAL INSTALL		6							10	2.702
TOTAL COST (BP-1100)									10	34.000
(Totals may not add due to rounding)										
INSTALLATION QTY		6							10	

Method of Implementation: Contractor Facility

Initial Lead Time: 14 Months

Follow-On Lead Time: 14 Months

**Milestones**

	<u>FY-11</u>	<u>FY-12</u>
Contract Date (Month/CY)		11/11
Delivery Date (Month/CY)		01/13

**Installation Schedule**

	<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>			
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input													1	1	2	2	2	2	2	2
Output													1	1	2	2	2	2	2	2

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UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: OTHER (BP11)</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$124.016	\$221.023	\$115.338	\$15.000	\$130.338	\$106.913	\$146.836	\$192.678	\$215.022

FY 2010 funding totals include \$90.0M requested for Overseas Contingency Operations.  
 FY 2011 funding totals include \$61.6M requested for Overseas Contingency Operations.

This line item funds multiple modifications that apply to weapon systems funded at less than \$2 million per year as well as weapon systems with much greater budgets. The overall goal of the modifications budgeted in FY12 is to enhance capability and improve reliability and maintainability. The primary modification budgeted in FY12 is The Family of Advanced Beyond Line-of-Sight Terminals (FAB-T) Increment 1 program that will provide Extremely High Frequency (EHF) voice and data military satellite communications (MILSATCOM) for nuclear and conventional forces as well as airborne and ground command posts with connectivity to MILSTAR and Advanced EHF satellites. Other modifications budgeted and programmed are listed shown below.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	_3472	C2ISR TDL			1.0		1.0	0.9	0.9	1.7	1.8		6.3
	4501	EHF SATCOM	10.5	140.5	50.9		50.9	79.1	105.6	58.1	59.2		503.9
	8668	Advanced Targeting Pod Modifications	91.5	62.7	0.8	15.0	15.8	0.9	0.9	0.9	0.9		214.7
	8669	Full Combat Mission Training	0.0	0.4	1.1	0.0	1.1	1.6	1.8	1.9	1.9		62.4
	8670	MAF Training	7.5	5.7	2.9	0.0	2.9	0.0	0.0	2.0			23.6
	9860A	JOINT TACTICAL RADIO SYSTEM	8.7	11.6	58.5		58.5	24.3	19.3	54.0	142.8		319.3
	99999J	MISCELLANEOUS LOW COSTS MODS (OTHER)	1.7	0.1	0.1		0.1	0.1	0.1	0.1	0.1		4.0
	Z88888	ADJUSTMENTS	4.0										4.0
<b>TOTAL FOR CLASS P</b>			124.0	221.0	115.3	15.0	130.3	106.9	128.7	118.8	206.7		1138.2
	9861	AIRBORNE ELECTRONIC ATTACK							18.2	73.9	8.3		100.3
<b>TOTAL FOR CLASS</b>			0.0	0.0	0.0	0.0	0.0	0.0	18.2	73.9	8.3	0.0	100.3
<b>TOTAL FOR WEAPON SYSTEM OTHER (BP11)</b>			124.0	221.0	115.3	15.0	130.3	106.9	146.8	192.7	215.0	0.0	1238.6

Totals may not add due to rounding  
 TOTAL PROG includes Prior Year and Cost To Go Dollars

P-1 SHOPP LIST ITEM NO. 76	PAGE NO. 1
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02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. EHF SATCOM MN- 4501

CLC: OTHER (BP11) Class: P

Models of Systems Affected: MULTI

Center: ESC - Hanscom AFB, MA

PE 0303601F

Team SPACE

**Description/Justification**

This program has associated Research Development Test and Evaluation funding in PE 33601F.

The Family of Advanced Beyond Line-of-Sight Terminals (FAB-T) program will provide Extremely High Frequency (EHF) voice and data military satellite communications (MILSATCOM) for nuclear and conventional forces as well as airborne and ground command posts with connectivity to MILSTAR and Advanced EHF satellites.

This funding line modifies aircraft to maintain Single Integrated Operations Plan connectivity, procuring new equipment for B-2, B-52, RC-135, E-4, and E-6 aircraft currently lacking EHF connectivity. Funding for production of terminals will start with Low Rate Initial Production decision in FY13, following with the full-rate production decision in FY 15. Advance Procurement funding is needed in FY12 for advance buys of key material and equipment to achieve cost and schedule savings. These materials and equipment include specialized and automated test equipment, materials needed for Radiation Lot Acceptance Testing (RLAT), long-lead parts and lifetime buys to avoid obsolescence issues. Installation of FAB-T equipment is supported in each aircraft Modification Title and Number (MN) so that costs and install kit quantities are not included below. Equipment unit costs vary by platform due to variations in content.

Aircraft Breakdown: ACTIVE 0, RESERVE 0, ANG 0, TOTAL 0

**Development Status**

FAB-T risk reduction was completed in FY01; development began with contract award in FY02. Concurrent development and procurement is necessary to resolve any software problems, perform aircraft integration and installation tests, conduct satellite testing and integration, and field upgrades through an incremental development acquisition strategy.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)				239.352		186.582		238.729				136.666
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)				239.352		186.582		238.729				136.666
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)												
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS												
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Active)	[0]					140.488		50.921				79.128
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC	[0]					140.488		50.921				79.128
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
SPARES												
OGC				10.488								
TOTAL COST (BP-1100)				10.488		140.488		50.921				79.128
(Totals may not add due to rounding)												
INSTALLATION QTY												

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		15.970		13.030		13.275				843.604
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)		15.970		13.030		13.275				843.604
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS										
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)		105.565		58.148		59.192			[0]	493.442
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC		105.565		58.148		59.192			[0]	493.442
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
SPARES		0.000		0.000						0.000
OGC										10.488
TOTAL COST (BP-1100)		105.565		58.148		59.192				503.930
(Totals may not add due to rounding)										
INSTALLATION QTY										

Method of Implementation: Org/Intermediate  
 Initial Lead Time: 0 Months

Follow-On Lead Time: 0 Months

**Milestones**

	<u>FY-00</u>	<u>FY-01</u>	<u>FY-02</u>	<u>FY-03</u>	<u>FY-04</u>	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>
Contract Date (Month/CY)															
Delivery Date (Month/CY)															

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Advanced Targeting Pod Modifications MN- 8668  
Models of Systems Affected: F-16, F-15E, A-10, B-52, B-1      Center: ASC - Wright Patterson AFB, OH

CLC: OTHER (BP11) Class: P  
PE 0207249F      Team POWER

**Description/Justification**

Technological advances and new Combat Air Forces requirements drive Advanced Targeting Pods (ATP) product improvements. ATP improvements or upgrades are typically accomplished as retrofits to pods. This funding supports the insertion of improved technology into the pod to enhance identification, improve accuracy, and reduce fratricide; including improved interoperability with coalition ground forces through fielding and upgrades of the video data link system. Upgrades of older ATPs to the most current configurations are also supported by this funding. Low Altitude Infrared Targeting and Navigation (LITENING) and Sniper are ATPs currently in use by the active duty, Air National Guard and Air Force Reserve Command. Follow-on acquisition activities are on contract for the next increment in ATP capability known as the Advanced Targeting Pod - Sensor Enhancement (ATP-SE).

Schedules and quantities are adjusted based upon funding levels (buy to budget) and COCOM priorities.

Aircraft Breakdown: ACTIVE 0, RESERVE 0, ANG 0, TOTAL 0

**Development Status**

Development of LITENING and SNIPER mod updates commenced in FY10 with focus in FY10 through FY16 on improved combat ID capabilities.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	[41]	41.161	[93]	91.488	[62]	62.662	[0]	0.800	[15]	15.000	[0]	0.910
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	[41]	41.161	[93]	91.488	[62]	62.662	[0]	0.800	[15]	15.000	[0]	0.910
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
TOTAL COST (BP-1100)		41.161		91.488		62.662		0.800		15.000		0.910
(Totals may not add due to rounding)												
INSTALLATION QTY												

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	[0]	0.882	[0]	0.898	[0]	0.914			[211]	214.715
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	[0]	0.882	[0]	0.898	[0]	0.914			[211]	214.715
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
<hr/>										
TOTAL COST (BP-1100)		0.882		0.898		0.914				214.715
(Totals may not add due to rounding)										
INSTALLATION QTY										

Method of Implementation:

Initial Lead Time: 0 Months

Follow-On Lead Time: 0 Months

**Milestones**

	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>
Contract Date (Month/CY)			12/10	09/11	03/12
Delivery Date (Month/CY)			08/11	10/12	04/13

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. JOINT TACTICAL RADIO SYSTEM MN- 9860A

CLC: OTHER (BP11) Class: P

Models of Systems Affected: Multiple

Center: ESC - Hanscom AFB, MA

PE 0207423F

Team C4I

**Description/Justification**

Joint Tactical Radio System (JTRS) is the Department of Defense (DoD) family of interoperable, modular, software-defined radios that will form the foundation of radio frequency information transmission for Joint Vision 2020. JTRS radios are intended to interoperate with existing radio systems and improve Joint warfighting through a series of new, joint networking waveforms enabling communication via voice, data, and video over mobile, ad-hoc, internet protocol (IP) based networks. The JTRS program is built around an open Software Communications Architecture (SCA), allowing common software waveform applications to be implemented across the family of radios to provide joint-service, allied, and coalition interoperability. The Enterprise Business Model, incorporating a common set of shared open system standards, promotes competition and reduces procurement costs for the DoD.

The AF will procure airborne JTRS variants, current voice and data systems, and transformational systems required to ensure networking capability and that government mandates are met. Aircraft procurement funds are for radio systems B-Kits, related ancillaries (to include but not limited to power amplifiers, filters, and low noise amplifiers), and networking components necessary to successfully integrate the radios into their host platform. Terminal costs vary significantly depending on the JTRS terminal being procured (MIDS-J, AMF-SA, Small Form Fit, etc.). RDT&E funding provides the Non-Recurring Engineering (NRE) for integration of the Airborne, Maritime, Fixed (AMF) Small Airborne variant. Procurement of these radios for numerous AF platforms will continue beyond the FYDP.

Aircraft Breakdown: ACTIVE 843, RESERVE 0, ANG 0, TOTAL 843

**Development Status**

The JTRS budget justification for the development of the various JPEO JTRS product lines will be found in the Navy FY 2012 President's Budget under Joint Tactical Radio System Program (PE 0604280N, BA 5) since the JTRS program is a joint program and the funding resides in the Navy's Budget. Procurement funding reflects acquisition of several different JTRS form factors at different stages of program development and fielding. The AF JTRS RDT&E funding in the Projected Financial Plan supports the development of integration solutions for the Airborne, Maritime, Fixed (AMF) Small Airborne variant across numerous AF platforms.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)				44.872		50.234		90.083				194.387
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)				44.872		50.234		90.083				194.387
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)												
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS												
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)			18	8.731	35	11.571	218	58.542			134	24.262
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL: EQUIPMENT			18	8.731	35	11.571	218	58.542			134	24.262
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
INSTALLATION OF HARDWARE												
FY-10 (Active)	18 KITS				[18]							
FY-11 (Active)	35 KITS						[35]					
FY-12 (Active)	218 KITS										[218]	
FY-13 (Active)	134 KITS											
FY-14 (Active)	132 KITS											
FY-15 (Active)	209 KITS											
FY-16 (Active)	97 KITS											
TOTAL INSTALL					18		35				218	
TOTAL COST (BP-1100)			18	8.731	35	11.571	218	58.542			134	24.262
(Totals may not add due to rounding)												
INSTALLATION QTY			0		18		35				218	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		249.469		494.156		610.430				1733.631
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)		249.469		494.156		610.430				1733.631
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS										
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)	132	19.338	209	54.034	97	142.831			843	319.309
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT	132	19.338	209	54.034	97	142.831			843	319.309
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
INSTALLATION OF HARDWARE										
FY-10 (Active)		18 KITS								[18]
FY-11 (Active)		35 KITS								[35]
FY-12 (Active)		218 KITS								[218]
FY-13 (Active)		134 KITS	[134]							[134]
FY-14 (Active)		132 KITS		[132]						[132]
FY-15 (Active)		209 KITS				[209]				[209]
FY-16 (Active)		97 KITS					97			[97]

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL INSTALL	134		132		209		97		843	
TOTAL COST (BP-1100) (Totals may not add due to rounding)	132	19.338	209	54.034	97	142.831			843	319.309
INSTALLATION QTY	134		132		209		97		843	

Method of Implementation: Combination

Initial Lead Time: 12 Months

Follow-On Lead Time: 12 Months

**Milestones**

	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>
Contract Date (Month/CY)			02/11	02/12	02/13	02/14	02/15	02/16	02/17
Delivery Date (Month/CY)			02/12	02/13	02/14	02/15	02/16	02/17	02/18

**Installation Schedule**

	<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Input					0	0	0	0				18				35								218								134				132
Output					0	0	0	0				18				35								218								134				132

  

	<u>FY-16</u>				<u>FY-17</u>			
	1	2	3	4	1	2	3	4
Input				209				97
Output				209				97

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications					P-1 LINE ITEM NOMENCLATURE: MQ-1				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$165.857	\$208.213	\$158.446	\$2.800	\$161.246	\$58.953	\$70.782	\$41.125	\$44.529

FY2010 funding totals include \$65M requested for Overseas Contingency Operations.  
 FY2012 funding totals include \$2.8M requested for Overseas Contingency Operations.

Predator is an autonomous, long-dwell, unmanned reconnaissance system capable of operating over the horizon while providing real-time intelligence information to the Joint Task Force Commander. The air vehicle carries electro-optical (EO) and Infra-Red (IR) sensors, and is capable of transmitting near real time full motion video to the task force commander and throughout the operational theater.

Currently, 163 aircraft in inventory.

Predator was developed as an Advanced Concept Technology Demonstration; no service life was determined. Structural inspections on high-time aircraft thus far have not allowed projection of a service life limit. Average life remaining is TBD.

There are as yet no projected deliveries of modifications for Guard and Reserve. Aircraft are assigned to Active for modifications and subsequently made available to components by the lead command.

Totals include funding for PRCP Program Number 271, "MQ-1 Predator."

FY12 OCO of \$2.8M requested for Digital Video to address SECDEF-directed cross-leveling of high definition full motion video capabilities between Air Force, SOCOM, and other government agency Predator-class aircraft.

This program has associated Research, Development, Test and Evaluation funding in PE 0305219F.

The program funding includes reductions for overhead efficiencies that are not intended to impact program content. The efficiencies reductions total \$1.073M in FY12.

CLASS	MOD NR	MODIFICATION TITLE	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16	COST TO GO	TOTAL PROG
P	4445	Aircraft PPDL	17.6	42.2	55.6		55.6	16.7	15.5	15.4			198.9
	4446	Differential GPS	6.0	7.1	0.9		0.9	0.9	0.9	0.9			26.4
	4447	Digital Video	0.7	29.1	17.3	2.8	20.1						49.9
	4448	Common Sensor Payload						28.3	48.6	18.3	37.0	170.6	302.7
	4449	Moving Target Tracker						6.3	5.8	6.5	7.5	20.2	46.4

Totals may not add due to rounding  
 TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 77	PAGE NO. 1	
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>	<b>P-1 LINE ITEM NOMENCLATURE: MQ-1</b>
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<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12OCO</u>	<u>FY-12Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
	4451	VORTEX	4.6	6.1	5.7		5.7	6.7					42.3
	4452	GCS PPDL	73.0	97.3	68.4		68.4						300.9
	4453	GCS Modernization			10.6		10.6						43.3
	PRDT02	PREDATOR A/B MODIFICATIONS	64.0	26.4									110.1
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			165.9	208.2	158.4	2.8	161.2	59.0	70.8	41.1	44.5	190.8	1120.9

**TOTAL FOR WEAPON SYSTEM MQ-1**

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Aircraft PPDL MN- 4445

CLC: MQ-1 Class: P

Models of Systems Affected: MQ-1

Center: ASC - Wright Patterson AFB, OH

PE 0305219F

Team INFO

**Description/Justification**

The Predator Primary Data Link – Secure Communications Upgrade (PPDL SCU) Program delivers enhanced capabilities to the Beyond Line-Of-Sight (BLOS) and Line-Of-Sight (LOS) communication systems of the MQ-1 Predator aircraft. These include the integration of two additional, fully independent Ku-Band Common Data Link (CDL) LOS data-links and NSA Type-1 encryption of the SATCOM BLOS and Ku-Band (CDL) LOS data-links. Increased throughput data rates, IP networking and interoperable/MIL-STD waveforms are capabilities that are also delivered.

Note:  
At any given time, 25 aircraft are available to support the Air National Guard (ANG) on a rotational basis. All ANG aircraft receive the same modifications as the active duty fleet.

Best estimate of total Full-Time Contractor Employees (FTEs) requested in FY12 is 14 for cost category "Contractor Support."

Aircraft Breakdown: ACTIVE 140, RESERVE 0, ANG 0, TOTAL 140

**Development Status**

Hardware development is complete. Final integration on the MQ-1 aircraft is part of the Critical Capabilities Integration effort started in Sep 10.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	48	2.938	20	1.339	36	2.450	36	2.491				
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	48	2.938	20	1.339	36	2.450	36	2.491				
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)												
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)	[48]	32.882	[20]	14.994	[36]	27.425	[36]	27.890				
EQUIP NONREC Group B (Guard)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC	[48]	32.882	[20]	14.994	[36]	27.425	[36]	27.890				
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
OTHER GOVT				0.269		10.381		9.227				1.206
CONTRACTOR SUPPORT				0.997		1.962		3.682				3.030
INSTALLATION OF HARDWARE												
FY-09 (Active)	48 KITS						[36]	12.285			[12]	4.165
FY-10 (Active)	20 KITS										[20]	6.941
FY-11 (Active)	36 KITS										[4]	1.388
FY-12 (Active)	36 KITS											
TOTAL INSTALL							36	12.285			36	12.494
TOTAL COST (BP-1100)	48	35.820	20	17.599	36	42.218	36	55.575				16.730
(Totals may not add due to rounding)												
INSTALLATION QTY							36				36	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									140	9.218
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									140	9.218
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)									[140]	103.191
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[140]	103.191
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
OTHER GOVT		0.418		0.000						21.501
CONTRACTOR SUPPORT		2.378		3.953						16.002
INSTALLATION OF HARDWARE										
FY-09 (Active)	48 KITS								[48]	16.450
FY-10 (Active)	20 KITS								[20]	6.941
FY-11 (Active)	36 KITS	[32]	11.295						[36]	12.683
FY-12 (Active)	36 KITS	[4]	1.412	[32]	11.487				[36]	12.899
TOTAL INSTALL		36	12.707	32	11.487				140	48.973

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL COST (BP-1100) (Totals may not add due to rounding)		15.503		15.440					140	198.885
INSTALLATION QTY	36		32						140	

Method of Implementation: Depot

Initial Lead Time: 23 Months

Follow-On Lead Time: 26 Months

**Milestones**

	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>
Contract Date (Month/CY)	06/10	03/11	03/12	03/12	03/13
Delivery Date (Month/CY)	05/12	05/13	05/14	05/14	05/15

**Installation Schedule**

	<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																	9	9	9	9					9	9	9	9	9	9	9	9
Output																	9	9							9	9	9	9	9	9	9	9

  

	<u>FY-15</u>				<u>FY-16</u>			
	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4
Input	8	8	8	8				
Output	9	9	8	8	8	8		

UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Digital Video MN- 4447

CLC: MQ-1 Class: P

Models of Systems Affected: MQ-1

Center: ASC - Wright Patterson AFB, OH

PE 0305219F

Team INFO

**Description/Justification**

This project consists of providing the user High-Definition (HD) full motion video with H.264 encoding. The digital architecture consists of: Payload Tray Retrofit, 720p H.264 HD Compressor, HD Electronic Unit (HD EU), A/C software and GCS H.264 decoder. It will provide improved image quality by transitioning from analog to 720p digital video.

FY2012 funding totals include \$2.8M requested for Overseas Contingency Operations for Digital Video to address SECDEF-directed cross-leveling of high definition full motion video capabilities between Air Force, SOCOM, and other government agency Predator-class aircraft. FY12 OCO funds are essential to fully integrate HD video on the remaining Predator fleet.

**Notes:**

GROUP A includes payload trays only.

GROUP B includes: HD/EU, compressors and compressor kits. Each effort requires a separate contract action (HD/EU - Raytheon; compressors/kits - GA-ASI). Contract data and install schedule are for HD/EUs.

At any given time, 25 aircraft are available to support the Air National Guard (ANG) on a rotational basis. All ANG aircraft receive the same modifications as the active duty fleet.

Aircraft Breakdown: ACTIVE 130, RESERVE 0, ANG 0, TOTAL 130

**Development Status**

Software development complete in FY2013. GA-ASI is finalizing the necessary engineering, design, integration, and testing activities to develop and productionize Digital Video on the MQ-1.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)			[72]	0.650	[48]	0.396			[10]	0.080		
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS			[72]	0.650	[48]	0.396			[10]	0.080		
KITS NONRECUR Group A (Active)			[0]									
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR			[0]									
EQUIPMENT Group B (Active)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)			[0]		[78]	20.188	[42]	13.282	[10]	2.720		
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC			[0]		[78]	20.188	[42]	13.282	[10]	2.720		
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
OTHER GOVT				0.010		7.153		2.872				
CONTRACTOR SUPPORT				0.040		1.351		1.146				
<hr/>												
TOTAL COST (BP-1100)				0.700		29.088		17.300		2.800		
(Totals may not add due to rounding)												
INSTALLATION QTY							60				70	

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									[130]	1.126
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									[130]	1.126
KITS NONRECUR Group A (Active)									[0]	
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									[0]	
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)									[130]	36.190
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[130]	36.190
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
OTHER GOVT										10.035
CONTRACTOR SUPPORT										2.537
<hr/>										
TOTAL COST (BP-1100)										49.888
(Totals may not add due to rounding)										
INSTALLATION QTY									130	

Method of Implementation: Org/Intermediate  
 Initial Lead Time: 6 Months

Follow-On Lead Time: 1 Months

**Milestones**

	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>
Contract Date (Month/CY)			06/11	06/12
Delivery Date (Month/CY)			12/11	07/12

02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. VORTEX MN- 4451

CLC: MQ-1 Class: P

Models of Systems Affected: MQ-1, MQ-9

Center: ASC - Wright Patterson AFB, OH

PE 0305219F

Team INFO

**Description/Justification**

VORTEX (Video ORiented Transceiver for EXchange of information) is a system which enables encrypted line of sight data transmission across multiple frequencies, channels, and waveforms. This system will be integrated to the MQ-1 system and will satisfy the final Key Performance Parameter in the MQ-1 Capabilities Development Document.

Planned modifications include hardware and software integration into the MQ-1 aircraft, and software integration into the Ground Control Stations.

**Notes:**

Other Government Costs in prior years include Rover V receivers to be used on the flight line to check and verify VORTEX operation. Prior and FY10 procures VORTEX phase I kits (transmit on a set frequency). FY11 is installation of phase I. FY12 and FY13 is procurement and installation of phase II (transmit on multiple frequencies). AFSOC began the VORTEX program and retrofitted 32 aircraft with Phase I.

At any given time, 25 aircraft are available to support the Air National Guard (ANG) on a rotational basis. All ANG A/C receive the same modifications as the active duty fleet.

Aircraft Breakdown: ACTIVE 140, RESERVE 0, ANG 0, TOTAL 140

**Development Status**

VORTEX Phase II software development is scheduled to complete in 2QFY13.

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	100	3.527	25	0.895			140	3.241				
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	100	3.527	25	0.895			140	3.241				
KITS NONRECUR Group A (Active)	[0]											
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR	[0]											
EQUIPMENT Group B (Active)	[100]	13.202	[25]	3.351								
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												

**Projected Financial Plan Continued**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	<u>QTY</u>	<u>COST</u>										
TOTAL: EQUIPMENT	[100]	13.202	[25]	3.351								
EQUIP NONREC Group B (Active)	[0]											
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC	[0]											
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
OTHER GOVT		2.520		0.070		1.506		0.939				0.485
CONTRACTOR SUPPORT				0.259		0.284		0.375				1.219
INSTALLATION OF HARDWARE												
FY-09 (Active)	100 KITS				[100]	4.332						
FY-10 (Active)	25 KITS						[25]	1.101				
FY-12 (Active)	140 KITS										[140]	5.025
TOTAL INSTALL					100	4.332	25	1.101			140	5.025
TOTAL COST (BP-1100)	100	19.249	25	4.575		6.122	140	5.656				6.729
(Totals may not add due to rounding)												
INSTALLATION QTY					100		25				140	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									265	7.663
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									265	7.663
KITS NONRECUR Group A (Active)									[0]	
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									[0]	
EQUIPMENT Group B (Active)									[125]	16.553
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT									[125]	16.553
EQUIP NONREC Group B (Active)									[0]	
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[0]	
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
OTHER GOVT										5.520
CONTRACTOR SUPPORT										2.137
INSTALLATION OF HARDWARE										
FY-09 (Active)	100 KITS								[100]	4.332
FY-10 (Active)	25 KITS								[25]	1.101
FY-12 (Active)	140 KITS								[140]	5.025
TOTAL INSTALL									265	10.458
TOTAL COST (BP-1100)									265	42.331

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
(Totals may not add due to rounding)										
INSTALLATION QTY									265	

Method of Implementation: Contract Field Team  
 Initial Lead Time: 12 Months

Follow-On Lead Time: 3 Months

**Milestones**

	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>
Contract Date (Month/CY)	07/10	07/10			05/12
Delivery Date (Month/CY)	04/11	04/11			08/12

**Installation Schedule**

	<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>			
	Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
Input														50	50		25								35	35	35	35				
Output																25	25	25	25	25								35	35	35	35	

  

	<u>FY-15</u>				<u>FY-16</u>				<u>FY-17</u>				<u>FY-18</u>				<u>FY-19</u>				<u>FY-20</u>				<u>FY-21</u>				<u>FY-22</u>			
	Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
Input																																
Output																																

02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. GCS PPDL MN- 4452

CLC: MQ-1 Class: P

Models of Systems Affected: MQ-1, MQ-9

Center: ASC - Wright Patterson AFB, OH

PE 0305219F

Team INFO

**Description/Justification**

The MQ-1 Ground Control Station (GCS) functions as the aircraft cockpit and controls the aircraft either within line-of-sight (LOS) or beyond-line-of-sight (BLOS) via a combination of satellite relay and terrestrial communications. The MQ-1 Ground Control Station (GCS) retrofit of communication architecture supports the encrypted delivery requirement and procurement of a GCS PPDL Kit and a Surface Terminal Subsystem (STSS).

Aircraft Breakdown: ACTIVE 0, RESERVE 0, ANG 0, TOTAL 0

**Development Status**

Software development continues through 3QFY12.

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	[52]	1.955	[52]	1.355	[52]	1.377	[39]	1.050				
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	[52]	1.955	[52]	1.355	[52]	1.377	[39]	1.050				
KITS NONRECUR Group A (Active)	[0]											
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR	[0]											
EQUIPMENT Group B (Active)	[52]	60.202	[52]	66.415	[52]	67.488	[39]	51.473				
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT	[52]	60.202	[52]	66.415	[52]	67.488	[39]	51.473				
EQUIP NONREC Group B (Active)	[0]											
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC	[0]											
CHANGE ORDERS												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
OTHER GOVT				1.118		23.930		11.358				
CONTRACTOR SUPPORT				4.135		4.522		4.533				
<hr/>												
TOTAL COST (BP-1100)		62.157		73.023		97.317		68.414				
(Totals may not add due to rounding)												
INSTALLATION QTY							26				52	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									[195]	5.737
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									[195]	5.737
KITS NONRECUR Group A (Active)									[0]	
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									[0]	
EQUIPMENT Group B (Active)									[195]	245.578
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT									[195]	245.578
EQUIP NONREC Group B (Active)									[0]	
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[0]	
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
OTHER GOVT										36.406
CONTRACTOR SUPPORT										13.190
<hr/>										
TOTAL COST (BP-1100)										300.911
(Totals may not add due to rounding)										
INSTALLATION QTY	52		52		13				195	

Method of Implementation: Org/Intermediate  
 Initial Lead Time: 23 Months

Follow-On Lead Time: 26 Months

**Milestones**

	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>
Contract Date (Month/CY)	06/10	03/11	03/12	03/13	
Delivery Date (Month/CY)	05/12	05/13	05/14	05/15	

02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. GCS Modernization MN- 4453

CLC: MQ-1 Class: P

Models of Systems Affected: MQ-1

Center: ASC - Wright Patterson AFB, OH

PE 0305219F

Team INFO

**Description/Justification**

Effort removes current Ground Control Station (GCS) crew station seats and replaces it with new, upgraded ergonomic adjustable seats thus increasing the safety and comfort for both the Pilot and Sensor Operator. Replacement of seat is an O-level field mod.

Effort also procures GCS Block 30 Retrofit Kits. This Block upgrade includes STORM console, MFW upgrades, ISCS kits, DNET, HD/SAR dissemination, CLAMP, multiport switch, intercom upgrade, completion of Linux processor and improved displays. Installation of Block 30 Retrofit Kits will be performed by the Contractor Field Team.

Note:  
 The Equipment Group B (Active) represents funding for the GCS seats (qty 334).

The Equipment Nonrec Group B (Active) represents funding for the GCS Block 30 Retrofit Kits (qty 54).

Aircraft Breakdown: ACTIVE 0, RESERVE 0, ANG 0, TOTAL 0

**Development Status**

Complete.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)												
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS												
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)	[334]	5.590										
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL: EQUIPMENT	[334]	5.590										
EQUIP NONREC Group B (Active)	54	27.110										
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC	54	27.110										
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
OTHER GOVT								1.760				
CONTRACTOR SUPPORT								0.703				
INSTALLATION OF HARDWARE												
FY-09 (Active)	54 KITS						[54]	8.141				
TOTAL INSTALL							54	8.141				
TOTAL COST (BP-1100)	54	32.700						10.604				
(Totals may not add due to rounding)												
INSTALLATION QTY							54					

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS										
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)									[334]	5.590
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT									[334]	5.590
EQUIP NONREC Group B (Active)									54	27.110
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									54	27.110
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
OTHER GOVT										1.760
CONTRACTOR SUPPORT										0.703
INSTALLATION OF HARDWARE										
FY-09 (Active)	54 KITS								[54]	8.141
TOTAL INSTALL									54	8.141
TOTAL COST (BP-1100)									54	43.304
(Totals may not add due to rounding)										
INSTALLATION QTY									54	

Method of Implementation: Combination

Initial Lead Time: 12 Months

Follow-On Lead Time: 0 Months

**Milestones**

	<u>FY-08</u>	<u>FY-09</u>
Contract Date (Month/CY)		01/11
Delivery Date (Month/CY)		01/12

**Installation Schedule**

	<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>			
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																	13	13	14	14				
Output																	13	13	14	14				

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: MQ-9</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$76.286	\$269.305	\$256.168	\$0.000	\$256.168	\$319.287	\$243.972	\$193.052	\$199.345

FY2010 funding totals include \$27.6M for Overseas Contingency Operations.

FY2011 funding totals include \$45M requested for Overseas Contingency Operations.

The program funding includes reductions for Overhead Reduction efficiencies that are not intended to impact program content. The efficiencies reductions total \$1.725M in FY12.

Totals include funding for PRCP Program Number 424, MQ-9 Reaper.

The MQ-9 Reaper aircraft is designed primarily to prosecute critical emerging Time Sensitive Targets (TST) as a radar-based attack asset with organic hard-kill capability (hunter-killer) and also perform Intelligence, Surveillance, Reconnaissance and Target Acquisition (ISR TA) as a secondary role. In the hunter-killer role, the aircraft will employ multi-spectral sensors to automatically find, fix, and track ground targets (Automatic Target Cueing (ATC)) and assess post-strike results. The basic MQ-9 system consists of the aircraft, a control station, communications equipment, support equipment, Readiness Spares Packages (RSP), technical data/training, and personnel required to operate, maintain, and sustain the system. The system is designed to be modular and open-ended: mission-specific equipment is employed in a 'plug-and-play' mission kit concept allowing specific aircraft and control station configurations to be tailored to fit mission needs. The MQ-9 aircraft will continue to be modified to ensure all aircraft are standard with the latest configuration. Additionally, the MQ-9 aircraft will continue to evolve and upgrade its capabilities to satisfy new requirements and address Reliability and Maintainability (R&M) and safety issues as they arise. Retrofit also includes aircraft (including sensors) and ground system retrofits to baseline configurations. The plan is to retrofit all aircraft to a common Block 5 configuration depending on funding profile and asset availability.

There are currently 58 MQ-9 aircraft in the inventory the estimated designed service life is 20,000 hours (not yet tested). The majority of the fleet is not yet fielded so has 20,000 hours remaining for average service life.

Effort in this modification summary and associated P3As has been broken out into several categories: Airborne Reconn Systems, Block 5 Depot, Block 5 Field, MTS-B HD, Lynx SAR, GCS Modernization, Ka Migration, and ASIP-2C. In FY11 these effort were all captured under two headings: PRDTB MQ-9 MN-8679 and MQ-9 Ground Control Station (GCS) Mods MN-4442.

The effort described in 9158 (Blue Moon) is a new start in FY12.

The program has been funded to latest cost estimate, less efficiencies. The reduction for efficiencies are not intended to impact program content.

This program has associated Research, Development Test and Evaluation (RDT&E) AF funding in PEs 0305219 MQ-1 Predator, 0305206 Airborne Reconnaissance Systems, 0304260 Airborne SIGINT Enterprise, and 0604429F Airborne Electronic Attack and associated APAF funding in PE 0305206F Airborne Reconnaissance Systems and 0604429F Airborne Electronic Attack.

<u>CLASS</u>	<u>MOD</u>	<u>MODIFICATION</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST</u>	<u>TOTAL</u>
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Totals may not add due to rounding

TOTAL PROG includes Prior Year and Cost To Go Dollars

					P-1 SHOPP LIST ITEM NO. 78 / 79	PAGE NO. 1							
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>	<b>P-1 LINE ITEM NOMENCLATURE: MQ-9</b>
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	<u>NR</u>	<u>TITLE</u>		<u>OCO</u>	<u>Total</u>				<u>TO GO</u>	<u>PROG</u>		
P	8679	PRDTB2 MQ-9	22.3	2.6	2.6					25.0		
	9136	AIRBORNE RECONN SYSTEMS	19.6	160.4	74.9	74.9	106.2	112.4	76.8	81.7	631.9	
	9151	Block 5 Depot		25.7	25.7	33.8	33.7	33.8	35.7	289.9	452.7	
	9152	Block 5 Field	28.7	32.3	31.6	31.6	18.4	12.5	12.6	6.8	206.9	
	9153	MTS-B HD				31.3	31.0	15.5	33.1	569.7	680.6	
	9154	Lynx SAR				0.0	3.5	4.6	4.6	87.7	100.4	
	9155	GCS Modernization		73.6	110.0	110.0	101.2	10.5	13.9		333.5	
	9156	Ka Migration				11.6	19.6	14.8	17.6	30.9	94.5	
	9157	ASIP-2C				11.3	15.2	15.1	13.9		55.5	
	9158	9158		6.0	6.0						6.0	
	99999B	MQ-9 Low Cost Mods		2.0	2.0	2.0	2.0	2.0	2.0	2.0	10.0	
<b>TOTAL FOR CLASS P</b>			70.6	266.3	252.8	252.8	315.8	240.4	189.2	195.4	1042.2	2596.9
	9159	R&M enhancements		3.0	3.4	3.4	3.5	3.6	3.9	3.9	95.5	116.8
	Z88888	ADJUSTMENTS	5.7									5.7
<b>TOTAL FOR CLASS</b>			5.7	3.0	3.4	3.4	3.5	3.6	3.9	3.9	95.5	122.5
<b>TOTAL FOR WEAPON SYSTEM MQ-9</b>												

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

	P-1 SHOPP LIST ITEM NO. 78 / 79	PAGE NO. 2	
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**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)			0		3	160.383	3	74.866			3	92.186
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT			0		3	160.383	3	74.866			3	92.186
EQUIP NONREC Group B (Active)			[0]	15.950								
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC			[0]	15.950								
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP			[0]	3.600								
RETROFIT												12.500
INSTALLATION OF HARDWARE												
FY-11 (Active)	3 KITS										[3]	1.500
FY-12 (Active)	3 KITS											
FY-13 (Active)	3 KITS											
FY-14 (Active)	1 KITS											
FY-15 (Active)	2 KITS											
FY-16 (Active)	2 KITS											
TOTAL INSTALL											3	1.500
TOTAL COST (BP-1100)			0	19.550	3	160.383	3	74.866			3	106.186
(Totals may not add due to rounding)												
INSTALLATION QTY											3	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		13.040		16.419		17.408			[1]	157.059
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)		13.040		16.419		17.408			[1]	157.059
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS										
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)	1	48.365	2	75.337	2	81.217			14	532.354
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT	1	48.365	2	75.337	2	81.217			14	532.354
EQUIP NONREC Group B (Active)									[0]	15.950
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[0]	15.950
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP									[0]	3.600
RETROFIT		62.500								75.000
INSTALLATION OF HARDWARE										
FY-11 (Active)			3 KITS						[3]	1.500
FY-12 (Active)			3 KITS	[3]	1.500				[3]	1.500
FY-13 (Active)			3 KITS	[3]	1.500				[3]	1.500
FY-14 (Active)			1 KITS			[1]	0.500		[1]	0.500
FY-15 (Active)			2 KITS					2	[2]	
FY-16 (Active)			2 KITS					2	[2]	

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL INSTALL	3	1.500	3	1.500	1	0.500	4		14	5.000
TOTAL COST (BP-1100) (Totals may not add due to rounding)	1	112.365	2	76.837	2	81.717			14	631.904
INSTALLATION QTY	3		3		1		4		14	

Method of Implementation: Contractor Facility

Initial Lead Time: 21 Months

Follow-On Lead Time: 21 Months

**Milestones**

	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>
Contract Date (Month/CY)			07/11	03/12	03/13	03/14	03/15	03/15
Delivery Date (Month/CY)			04/13	12/13	12/14	12/15	12/16	12/16

**Installation Schedule**

	<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																
Output																																

  

	<u>FY-16</u>				<u>FY-17</u>				<u>FY-18</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4
Input	1				2				2			
Output	1				2				2			

02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Block 5 Depot MN- 9151

CLC: MQ-9 Class: P

Models of Systems Affected: MQ-9

Center: ASC - Wright Patterson AFB, OH

PE 0205219F

Team Unassigned

**Description/Justification**

This modification is a portion of the retrofit program that upgrades MQ-9 aircraft from the Block 1 configuration to the Block 5 configuration and takes place at the Depot. Upgrades that are part of this modification include, but are not limited to, installing High Capacity Generator, Predator Primary Data Link (PPDL), Avionics Bay Redesign, Differential GPS, and Vortex Encrypted Datalink.

Note on "Installation of Hardware": The FY17 line captures the quantity and install costs for all modification kits procured and installed outside the FYDP.

Aircraft Breakdown: ACTIVE 137, RESERVE 0, ANG 0, TOTAL 137

**Development Status**

Critical Design Review (CDR) complete. Low Rate Initial Production decision planned for 3rd Quarter FY11.

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)							[12]	2.502			[12]	2.532
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS							[12]	2.502			[12]	2.532
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)							12	22.500			12	22.860
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT							12	22.500			12	22.860
EQUIP NONREC Group B (Active)							[0]					
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC							[0]					
CHANGE ORDERS												

**Projected Financial Plan Continued**

		<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
DATA													
SIM/TRAINER													
SUPPORT- EQUIP													
OGC									0.700				1.500
INSTALLATION OF HARDWARE													
FY-12 (Active)	12 KITS											[12]	6.900
FY-13 (Active)	12 KITS												
FY-14 (Active)	12 KITS												
FY-15 (Active)	12 KITS												
FY-16 (Active)	12 KITS												
FY-17 (Active)	12 KITS												
FY-18 (Active)	65 KITS												
TOTAL INSTALL												12	6.900
TOTAL COST (BP-1100)									12	25.702		12	33.792
(Totals may not add due to rounding)													
INSTALLATION QTY												12	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	[12]	2.597	[12]	2.658	[12]	2.694	77	17.320	[137]	30.303
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	[12]	2.597	[12]	2.658	[12]	2.694	[77]	17.320	[137]	30.303
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)	12	23.220	12	23.670	12	24.030	77	155.880	137	272.160
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT	12	23.220	12	23.670	12	24.030	77	155.880	137	272.160
EQUIP NONREC Group B (Active)									[0]	
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC									[0]	
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
OGC		0.900		0.400		1.700		61.400		66.600
INSTALLATION OF HARDWARE										
FY-12 (Active)			12 KITS						[12]	6.900
FY-13 (Active)	[12]	7.000	12 KITS						[12]	7.000
FY-14 (Active)			12 KITS	[12]	7.100				[12]	7.100
FY-15 (Active)			12 KITS			[12]	7.300		[12]	7.300
FY-16 (Active)			12 KITS					12	7.400	[12]
FY-17 (Active)			12 KITS					77	47.900	[77]

**Continued**

	QTY	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	
FY-18 (Active)	65 KITS										
TOTAL INSTALL	12	7.000	12	7.100	12	7.300	89	55.300	137	83.600	
TOTAL COST (BP-1100) (Totals may not add due to rounding)	12	33.717	12	33.828	12	35.724	77	289.900	137	452.663	
INSTALLATION QTY	12		12		12				48		

Method of Implementation: Depot

Initial Lead Time: 15 Months

Follow-On Lead Time: 15 Months

**Milestones**

	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>
Contract Date (Month/CY)		02/12	02/13	02/14	02/15	02/16
Delivery Date (Month/CY)		05/13	05/14	05/15	05/16	05/17

**Installation Schedule**

Quarter	<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>				<u>FY-17</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input													3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Output																	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Block 5 Field MN- 9152

Models of Systems Affected: MQ-9

Center: ASC - Wright Patterson AFB, OH

PE 0205219F

CLC: MQ-9 Class: P  
 Team Unassigned

**Description/Justification**

This modification is a portion of the Block 5 retrofit program that upgrades Block 1 MQ-9 aircraft with some select Block 5 capabilities and utilizes a field team to perform the modification. Upgrades that are part of this modification include, but are not limited to, High Definition aircraft upgrades, laser altimeter, BRU-71 bomb racks, landing gear, differential GPS, VORTEX encrypted datalink, Stores Management System (SMS) and Selective Availability Anti-Spoofing Module(SAASM).

Equipment quantities only reflect the Main Landing Gear (MLG) modifications. The associated costs however, reflect all costs associated with MQ-9 Blk 5 field retrofits.

Aircraft Breakdown: ACTIVE 110, RESERVE 0, ANG 0, TOTAL 110

**Development Status**

Critical Design Review (CDR) complete. Low Rate Initial Production decision planned for 3rd Quarter FY11.

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)			[16]	3.110	[48]	5.042	[36]	2.870			[10]	0.870
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS			[16]	3.110	[48]	5.042	[36]	2.870			[10]	0.870
KITS NONRECUR Group A (Active)					[0]							
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR					[0]							
EQUIPMENT Group B (Active)			16	25.638	48	27.280	36	28.688			10	7.830
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT			16	25.638	48	27.280	36	28.688			10	7.830
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
OGC								0.000				0.000
INSTALLATION OF HARDWARE												
FY-10 (Active)            16 KITS											[16]	9.700
FY-11 (Active)            48 KITS												
FY-12 (Active)            36 KITS												
FY-13 (Active)            10 KITS												
TOTAL INSTALL											16	9.700
TOTAL COST (BP-1100)												
(Totals may not add due to rounding)			16	28.748	48	32.322	36	31.558			10	18.400
INSTALLATION QTY											16	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>		
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	
RDT & E (3600) (Active)											
RDT & E (3600) (Guard)											
RDT & E (3600) (Reserve)											
Total RDT & E (3600)											
PROCUREMENT (3010)											
INSTALL KITS Group A (Active)		0.410		0.430		0.400		6.320	[110]	19.452	
INSTALL KITS Group A (Guard)											
INSTALL KITS Group A (Reserve)											
TOTAL: INSTALL KITS		0.410		0.430		0.400		6.320	[110]	19.452	
KITS NONRECUR Group A (Active)									[0]		
KITS NONRECUR Group A (Guard)											
KITS NONRECUR Group A (Reserve)											
TOTAL: KITS NONRECUR									[0]		
EQUIPMENT Group B (Active)		3.690		3.870		3.200		56.880	110	157.076	
EQUIPMENT Group B (Guard)											
EQUIPMENT Group B (Reserve)											
TOTAL: EQUIPMENT		3.690		3.870		3.200		56.880	110	157.076	
EQUIP NONREC Group B (Active)											
EQUIP NONREC Group B (Guard)											
EQUIP NONREC Group B (Reserve)											
TOTAL: EQUIP NONREC											
CHANGE ORDERS											
DATA											
SIM/TRAINER											
SUPPORT- EQUIP											
OGC										0.000	
INSTALLATION OF HARDWARE											
FY-10 (Active)	16 KITS								[16]	9.700	
FY-11 (Active)	48 KITS	[48]	8.400						[48]	8.400	
FY-12 (Active)	36 KITS			[36]	8.300				[36]	8.300	
FY-13 (Active)	10 KITS					[10]	3.200	0	0.800	[10]	4.000
TOTAL INSTALL		48	8.400	36	8.300	10	3.200	0	0.800	110	30.400
TOTAL COST (BP-1100)			12.500		12.600		6.800		64.000	110	206.928



02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. GCS Modernization MN- 9155

Models of Systems Affected: MQ-9

Center: ASC - Wright Patterson AFB, OH

PE 0205219F

CLC: MQ-9 Class: P  
 Team Unassigned

**Description/Justification**

The GCS modernization(Block 30/50) retrofit program upgrades the Fixed, Mobile, and Dual Control GCSs and Simulators.

Through an incremental approach, GCS modernization retrofits the legacy system with user-prioritized capabilities, to include significant Human-Machine Interface (HMI) improvements, reliability and maintenance enhancements, and an architecture consistent with the evolving standards contained in STANAG 4586, Standard Interfaces of UAV Control System (UCS) for NATO UAV Interoperability, where practical.

Unit costs vary due to the mix of Fixed, Mobile, and Dual Control GCSs and Simulator retrofits, all of which have varying costs.

Aircraft Breakdown: ACTIVE 130, RESERVE 0, ANG 0, TOTAL 130

**Development Status**

GCS Block 30 Critical Design Review scheduled for 2nd Quarter FY11. GCS Block 50 Preliminary Design Review complete.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	[56]	2.428			[45]	5.330	[67]	10.720			[42]	8.290
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	[56]	2.428			[45]	5.330	[67]	10.720			[42]	8.290
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)	56	21.852			45	47.970	67	96.480			42	77.080
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT	56	21.852			45	47.970	67	96.480			42	77.080
EQUIP NONREC Group B (Active)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
OGC						20.300		2.800				5.600
INSTALLATION OF HARDWARE												
FY-09 (Active)            0 KITS											[56]	7.270
FY-11 (Active)            0 KITS											[30]	2.960
FY-12 (Active)            0 KITS												
FY-13 (Active)            0 KITS												
TOTAL INSTALL											86	10.230
TOTAL COST (BP-1100)	56	24.280			45	73.600	67	110.000			42	101.200
(Totals may not add due to rounding)												
INSTALLATION QTY											50	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									[210]	26.768
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									[210]	26.768
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)	0	3.600	0	3.700					210	250.682
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT	0	3.600	0	3.700					210	250.682
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
OGC		0.000		0.000						28.700
INSTALLATION OF HARDWARE										
FY-09 (Active)	0 KITS								[56]	7.270
FY-11 (Active)	0 KITS	[15]	2.250						[45]	5.210
FY-12 (Active)	0 KITS	[59]	4.650	[8]	0.860				[67]	5.510
FY-13 (Active)	0 KITS			[42]	9.340				[42]	9.340
TOTAL INSTALL	74	6.900	50	10.200					210	27.330
TOTAL COST (BP-1100)	0	10.500	0	13.900					210	333.480



UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. 9158 MN- 9158

CLC: MQ-9 Class: P

Models of Systems Affected:

Center: AAC

PE 0205219F

Team Unassigned

**Description/Justification**

Blue Moon is a unique SIGINT quick reaction capability (QRC) modification and can be explained in detail in a classified forum. The capability has been demonstrated and the funds for the development activities are contained and executed from the Airborne SIGINT Enterprise PE 0304260F.

The program has associated Research, Development, Test, and Evaluation (RDT&E) funding in PE 0304260F.

The Blue Moon modification funding in MQ-9 is a New Start in FY12.

Aircraft Breakdown: ACTIVE 6, RESERVE 0, ANG 0, TOTAL 6

**Development Status**

A prototype capability has been demonstrated and RDT&E funding requested in the Airborne SIGINT Enterprise PE 0304260F activity will be used to accelerate integration and fielding. Procurement of the sensors and initial spares will begin upon completion of the RDT&E efforts.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)												
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)												
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)												
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS												
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												
EQUIPMENT Group B (Active)							[6]	6.000				
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT							[6]	6.000				
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT- EQUIP												
<hr/>												
TOTAL COST (BP-1100)								6.000				
(Totals may not add due to rounding)												
INSTALLATION QTY									6			

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)										
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS										
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)									[6]	6.000
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT									[6]	6.000
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT- EQUIP										
<hr/>										
TOTAL COST (BP-1100)										6.000
(Totals may not add due to rounding)										
INSTALLATION QTY									6	

Method of Implementation: Org/Intermediate

Initial Lead Time: 4 Months

Follow-On Lead Time: 4 Months

**Milestones**

	<u>FY-11</u>	<u>FY-12</u>
Contract Date (Month/CY)		02/12
Delivery Date (Month/CY)		06/12

UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY: AIRCRAFT PROCUREMENT-AIR FORCE/AIRCRAFT Modifications</b>					<b>P-1 LINE ITEM NOMENCLATURE: CV-22</b>				
	FY-10	FY-11	FY-12	FY-12 OCO	FY-12 Total	FY-13	FY-14	FY-15	FY-16
<b>COST (In Mil)</b>	\$24.534	\$14.794	\$14.715	\$0.000	\$14.715	\$23.183	\$58.799	\$133.128	\$50.781

The CV-22 is part of the joint V-22 program.

Totals include funding for Program Resources Collection Process (PRCP) Program Number 212, V-22 Joint Advanced Vertical Lift Aircraft.

The program funding includes reductions for overhead reduction efficiencies that are not intended to impact program content. The efficiencies reductions total \$0.189M in FY 2012.

FY2011 funding totals include \$0.830M requested for Overseas Contingency Operations.

The CV-22 Osprey is a combat search and rescue, fleet logistics support, and special warfare support aircraft. It is a tiltrotor aircraft, taking off and landing like a helicopter, but, once airborne, its engine nacelles can be rotated to convert the aircraft to a turboprop airplane capable of high-speed, high-altitude flight. CV-22 can carry 18 combat troops, or up to 20,000 pounds of cargo, at twice the speed of a helicopter. The primary modifications budgeted in FY12 are Block B and Block 20 Upgrades. The designed service life is 10,000 flying hours over 30 years. The specific modifications budgeted and programmed are listed below.

<u>CLASS</u>	<u>MOD NR</u>	<u>MODIFICATION TITLE</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-12 OCO</u>	<u>FY-12 Total</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>COST TO GO</u>	<u>TOTAL PROG</u>
P	8790	Block 20 Upgrade		2.0	7.1		7.1	16.9	57.6	131.1	48.8	178.6	442.1
	8791	BLOCK B UPGRADE	20.1	10.8	6.7		6.7	4.3					79.5
	9400	CV-22 Fuel Jettison Retrofit	2.4										2.4
	99999X	LOW COST MODIFICATIONS	2.0	2.0	0.9		0.9	1.9	1.2	2.0	2.0	6.0	25.2
	Z88888	ADJUSTMENTS	0.0										0.0
<b>TOTAL FOR CLASS P</b>			24.5	14.8	14.7		14.7	23.2	58.8	133.1	50.8	184.6	549.2
<b>TOTAL FOR WEAPON SYSTEM CV-22</b>													

Totals may not add due to rounding  
TOTAL PROG includes Prior Year and Cost To Go Dollars

P-1 SHOPP LIST ITEM NO. 80	PAGE NO. 1
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UNCLASSIFIED  
Individual Modification

02/05/2011  
FY 2012 PB

Exhibit P3A Congressional  
Appropriation: Aircraft Procurement, Air Force

Modification Title and No. Block 20 Upgrade MN- 8790

CLC: CV-22 Class: P

Models of Systems Affected: CV-22

Center: Patuxent River NAS, MD

PE 0401318F

Team INFO

**Description/Justification**

This modification funds the retrofit of fielded CV-22 aircraft and trainers to Block C/20 configuration. The Block C/20 modification program will be implemented in several increments and includes, but is not limited to, efforts that (1) improve operational safety, suitability, and effectiveness, (2) correct deficiencies identified during operational testing and/or field operations, and (3) improve reliability/maintainability of the aircraft. Block C/20 upgrades are being developed in successive increments, and each increment includes multiple different kits, contracted as separate Engineering Change proposals. Each kit is developed on a separate timeline and will be installed under this modification program when available. A few of the kits will be developed in time to be incorporated on a limited number of aircraft on the production line; the aircraft fielded earlier will be retrofitted with kits under this modification program. Some of the Block C/20 modifications will have to be retrofitted on the entire fleet of CV-22s. The number of kits to be retrofitted under the Block C/20 modification will total 473. The first increment is expected to retrofit 33 aircraft and expected to include (but is not limited to) rehosting MV-22 Block C modifications on CV-22 and Communications Co-Site Interference program. A follow-on increment is expected to retrofit 43 aircraft and includes (but is not limited to) communications, situational awareness, and software. The last increment is expected to retrofit the entire aircraft inventory of 50 aircraft and includes (but is not limited to) improvements to avionics architecture and improved communications/navigation systems. This modification also includes funds to upgrade software, training devices and simulators to the Block C/20 configuration. The first increment kits will be purchased FY2011 to FY2015 with installations FY2012 through FY2016. The follow-on kits will be purchased in FY2012 through FY2017 with installations FY2013 through FY2018. The last increment will be purchased in FY2014 through FY2020 with installations FY2015 through 2021.

This program has Diminishing Manufacturing Sources (DMS) issues and funding is included in this budget line item for DMS resolution.

Aircraft Breakdown: ACTIVE 50, RESERVE 0, ANG 0, TOTAL 50

**Development Status**

RDT&E is funding development activities for the Block C/20 configuration. The Block 20 development contract was awarded in Dec 2007 and is expected to continue through the FYDP. The Block C/20 modification consists of three increments and each increment includes several modification upgrades (i.e., kit types). The upgrades are at various stages of development.

RDT&E funded by PE 0401318F.

**Projected Financial Plan**

	PRIOR		FY-10		FY-11		FY-12		FY-12 OCO		FY-13	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
RDT & E (3600) (Active)		23.078		14.572		10.938		15.263				17.000
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)		23.078		14.572		10.938		15.263				17.000
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)					1	2.000	5	3.150			37	11.830
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS					1	2.000	5	3.150			37	11.830
KITS NONRECUR Group A (Active)												
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIPMENT Group B (Active)					[0]						[8]	0.400
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT					[0]						[8]	0.400
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA												
SIM/TRAINER							[0]	3.479			[0]	2.640
SUPPORT- EQUIP												
SOFTWARE												
DMS (Diminished Manufacturing Sources)												
ENG SUPPORT												
INSTALLATION OF HARDWARE												
FY-11 (Active)		1 KITS					[1]	0.468				
FY-12 (Active)		5 KITS									[5]	2.059
FY-13 (Active)		37 KITS										
FY-14 (Active)		113 KITS										
FY-15 (Active)		140 KITS										
FY-16 (Active)		62 KITS										
FY-17 (Active)		51 KITS										
FY-18 (Active)		40 KITS										
FY-19 (Active)		17 KITS										
FY-20 (Active)		7 KITS										
TOTAL INSTALL								1	0.468		5	2.059
TOTAL COST (BP-1100)						1	2.000	5	7.097		37	16.929
(Totals may not add due to rounding)												
INSTALLATION QTY								1			5	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		15.100		14.600		8.100		5.500		124.151
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)		15.100		14.600		8.100		5.500		124.151
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)	113	50.861	140	59.128	62	20.819	115	22.786	473	170.573
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS	113	50.861	140	59.128	62	20.819	115	22.786	473	170.573
KITS NONRECUR Group A (Active)										
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR										
EQUIPMENT Group B (Active)	[19]	2.190	[26]	4.710	[10]	3.600	13	4.680	[76]	15.580
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT	[19]	2.190	[26]	4.710	[10]	3.600	[13]	4.680	[76]	15.580
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										
SIM/TRAINER			[0]	29.298			0	21.551	[0]	56.968
SUPPORT- EQUIP				14.020		0.000		8.658		22.678
SOFTWARE		1.337		7.000		4.665		47.200		60.201
DMS (Diminished Manufacturing Sources)				1.200		1.400		8.288		10.888
ENG SUPPORT				1.800				43.981		45.781
INSTALLATION OF HARDWARE										
FY-11 (Active)				1 KITS					[1]	0.468
FY-12 (Active)				5 KITS					[5]	2.059
FY-13 (Active)	[37]	3.182		37 KITS					[37]	3.182
FY-14 (Active)			[113]	113 KITS		13.976			[113]	13.976

**Continued**

		<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
		<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
FY-15 (Active)	140 KITS					[140]	18.299			[140]	18.299
FY-16 (Active)	62 KITS							62	7.473	[62]	7.473
FY-17 (Active)	51 KITS							51	6.321	[51]	6.321
FY-18 (Active)	40 KITS							40	6.101	[40]	6.101
FY-19 (Active)	17 KITS							17	0.982	[17]	0.982
FY-20 (Active)	7 KITS							7	0.560	[7]	0.560
<b>TOTAL INSTALL</b>		<b>37</b>	<b>3.182</b>	<b>113</b>	<b>13.976</b>	<b>140</b>	<b>18.299</b>	<b>177</b>	<b>21.437</b>	<b>473</b>	<b>59.420</b>
<b>TOTAL COST (BP-1100)</b> (Totals may not add due to rounding)		<b>113</b>	<b>57.569</b>	<b>140</b>	<b>131.132</b>	<b>62</b>	<b>48.782</b>	<b>115</b>	<b>178.581</b>	<b>473</b>	<b>442.090</b>
<b>INSTALLATION QTY</b>		<b>37</b>		<b>113</b>		<b>140</b>		<b>177</b>		<b>473</b>	

Method of Implementation: Contract Field Team

Initial Lead Time: 12 Months

Follow-On Lead Time: 12 Months

**Milestones**

	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	<u>FY-16</u>	<u>FY-17</u>	<u>FY-18</u>	<u>FY-19</u>
Contract Date (Month/CY)					06/11	12/11	12/12	12/13	12/14	12/15	12/16	12/17	12/18
Delivery Date (Month/CY)					06/12	12/12	12/13	12/14	12/15	12/16	12/17	12/18	12/19

**Installation Schedule**

	<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>				<u>FY-12 OCO</u>				<u>FY-13</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input																																
Output																																

  

	<u>FY-14</u>				<u>FY-15</u>				<u>FY-16</u>				<u>FY-17</u>				<u>FY-18</u>				<u>FY-19</u>				<u>FY-20</u>				<u>FY-21</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input	9	9	9	10	28	28	28	29	35	35	35	35	15	15	16	16	12	13	13	13	10	10	10	10	4	4	4	5	2	2	2	1
Output	2	9	9	9	10	28	28	28	29	35	35	35	35	15	15	16	16	12	13	13	13	10	10	10	10	4	4	4	5	2	2	2

02/05/2011  
 FY 2012 PB

UNCLASSIFIED  
 Individual Modification

Exhibit P3A Congressional  
 Appropriation: Aircraft Procurement, Air Force

Modification Title and No. BLOCK B UPGRADE MN- 8791

CLC: CV-22 Class: P

Models of Systems Affected: CV-22

Center: Patuxent River NAS, MD

PE 0401318F

Team INFO

**Description/Justification**

This modification funds the retrofit of fielded CV-22 aircraft to Block B/10 configuration. Block B/10 configuration includes, but is not limited to, efforts that improve operational safety, suitability, and effectiveness such as aft rescue hoist, defensive weapon system, reliability & maintainability modifications, retractable fuel probe, anti-icing system, more accessible nacelles, avionics/comm/nav upgrades, situational awareness improvements, on-board fire protection system, and correction of deficiencies identified during operational testing and/or field operations. This modification also includes funds to upgrade training devices and simulators to the Block B/10 configuration.

The Single Configuration Retrofit of the oldest CV-22 aircraft is the most significant retrofit within the Block B/10 program. Those aircraft are in different configurations, and each aircraft needs a different subset of modifications in order to be put in the same single configuration. In addition, this exhibit funds incorporation of individual engineering change proposals (ECPs) in other fielded CV-22 aircraft. The total number of kits to be installed on fielded aircraft is 419 (405 kits funded by base appropriation and 14 kits funded by FY2011 OCO request). Only 187 of the 419 kits require depot level (contractor field team) installation, and the install schedule reflects only those depot level installs. The other 232 kits will be installed by O-level (organizational level maintenance activity). Block B/10 includes multiple different modifications (i.e., kit types), contracted as separate Engineering Change Proposals. Many of the upgrades were developed in time to be incorporated on varying quantities of CV-22s on the production line, but the aircraft that were fielded earlier will be retrofitted with the upgrades under the modification.

Aircraft Breakdown: ACTIVE 50, RESERVE 0, ANG 0, TOTAL 50

**Development Status**

RDT&E funded development activities for the Block B/10 configuration began in FY02 and completed in FY08.

RDT&E funded by PE 0401318F.

**Projected Financial Plan**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)		55.911										
RDT & E (3600) (Guard)												
RDT & E (3600) (Reserve)												
Total RDT & E (3600)		55.911										
PROCUREMENT (3010)												
INSTALL KITS Group A (Active)	157	17.830	134	7.075	101	9.544	27	2.208				
INSTALL KITS Group A (Guard)												
INSTALL KITS Group A (Reserve)												
TOTAL: INSTALL KITS	157	17.830	134	7.075	101	9.544	27	2.208				
KITS NONRECUR Group A (Active)	[0]	7.685										
KITS NONRECUR Group A (Guard)												
KITS NONRECUR Group A (Reserve)												
TOTAL: KITS NONRECUR	[0]	7.685										
EQUIPMENT Group B (Active)												

**Projected Financial Plan Continued**

	<u>PRIOR</u>		<u>FY-10</u>		<u>FY-11</u>		<u>FY-12</u>		<u>FY-12 OCO</u>		<u>FY-13</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
EQUIPMENT Group B (Guard)												
EQUIPMENT Group B (Reserve)												
TOTAL: EQUIPMENT												
EQUIP NONREC Group B (Active)												
EQUIP NONREC Group B (Guard)												
EQUIP NONREC Group B (Reserve)												
TOTAL: EQUIP NONREC												
CHANGE ORDERS												
DATA												
SIM/TRAINER	[6]	10.025	[4]	11.814			[0]	2.800			[0]	3.910
SUPPORT- EQUIP		0.722		0.500								
GFE						0.198						
INSTALLATION OF HARDWARE												
FY-08 (Active) 75 KITS	[7]	1.258	[33]	0.670	[6]	0.120						
FY-09 (Active) 82 KITS			[8]	0.077	[15]	0.037						
FY-10 (Active) 134 KITS					[10]	0.896	[30]	0.247				
FY-11 (Active) 101 KITS							[33]	1.443			[20]	0.104
FY-12 (Active) 27 KITS											[25]	0.323
TOTAL INSTALL	7	1.258	41	0.747	31	1.053	63	1.690			45	0.427
TOTAL COST (BP-1100)	157	37.520	134	20.135	101	10.795	27	6.698				4.337
(Totals may not add due to rounding)												
INSTALLATION QTY	7		41		31		63				45	

Continued

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
RDT & E (3600) (Active)										55.911
RDT & E (3600) (Guard)										
RDT & E (3600) (Reserve)										
Total RDT & E (3600)										55.911
PROCUREMENT (3010)										
INSTALL KITS Group A (Active)									419	36.656
INSTALL KITS Group A (Guard)										
INSTALL KITS Group A (Reserve)										
TOTAL: INSTALL KITS									419	36.656
KITS NONRECUR Group A (Active)									[0]	7.685
KITS NONRECUR Group A (Guard)										
KITS NONRECUR Group A (Reserve)										
TOTAL: KITS NONRECUR									[0]	7.685
EQUIPMENT Group B (Active)										
EQUIPMENT Group B (Guard)										
EQUIPMENT Group B (Reserve)										
TOTAL: EQUIPMENT										
EQUIP NONREC Group B (Active)										
EQUIP NONREC Group B (Guard)										
EQUIP NONREC Group B (Reserve)										
TOTAL: EQUIP NONREC										
CHANGE ORDERS										
DATA										
SIM/TRAINER									[10]	28.549
SUPPORT- EQUIP										1.222
GFE										0.198
INSTALLATION OF HARDWARE										
FY-08 (Active)	75 KITS								[46]	2.048
FY-09 (Active)	82 KITS								[23]	0.114
FY-10 (Active)	134 KITS								[40]	1.142
FY-11 (Active)	101 KITS								[53]	1.547
FY-12 (Active)	27 KITS								[25]	0.323
TOTAL INSTALL									187	5.174

**Continued**

	<u>FY-14</u>		<u>FY-15</u>		<u>FY-16</u>		<u>TO COMP</u>		<u>TOTAL</u>	
	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
TOTAL COST (BP-1100) (Totals may not add due to rounding)									419	79.485
INSTALLATION QTY									187	

Method of Implementation: Combination

Initial Lead Time: 4 Months

Follow-On Lead Time: varies Months

**Milestones**

	<u>FY-05</u>	<u>FY-06</u>	<u>FY-07</u>	<u>FY-08</u>	<u>FY-09</u>	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>
Contract Date (Month/CY)				05/08	05/09	12/09	12/10	12/11	12/12
Delivery Date (Month/CY)				09/08	12/09	12/10	12/11	12/12	12/13

**Installation Schedule**

	<u>FY-05</u>				<u>FY-06</u>				<u>FY-07</u>				<u>FY-08</u>				<u>FY-09</u>				<u>FY-10</u>				<u>FY-11</u>				<u>FY-12</u>							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Input															7					10	10	10	11	8	8	8	8	7	15	16	16	16				
Output															5	2					10	10	10	11	8	8	8	8	7	16	15	16				
	<u>FY-12 OCO</u>				<u>FY-13</u>				<u>FY-14</u>																											
Quarter	1	2	3	4	1	2	3	4	1	2	3	4																								
Input					11	11	11	12																												
Output					16	11	11	11	11	12																										