

Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-224



B-2 Extremely High Frequency SATCOM and Computer Increment 1 (B-2 EHF Inc 1)

As of FY 2015 President's Budget

Defense Acquisition Management Information Retrieval (DAMIR)

Table of Contents

Common Acronyms and Abbreviations	
Program Information	4
Responsible Office	4
References	4
Mission and Description	5
Executive Summary	6
Threshold Breaches	7
Schedule	8
Performance	g
rack to Budget	11
Cost and Funding	13
ow Rate Initial Production	19
Foreign Military Sales	
Nuclear Costs	
Jnit Cost	21
Cost Variance	24
Contracts	
Deliveries and Expenditures	28
Operating and Support Cost	20

Common Acronyms and Abbreviations

Acq O&M - Acquisition-Related Operations and Maintenance

APB - Acquisition Program Baseline

APPN - Appropriation

APUC - Average Procurement Unit Cost

BA - Budget Authority/Budget Activity

BY - Base Year

DAMIR - Defense Acquisition Management Information Retrieval

Dev Est - Development Estimate

DoD - Department of Defense

DSN - Defense Switched Network

Econ - Economic

Eng - Engineering

Est - Estimating

FMS - Foreign Military Sales

FY - Fiscal Year

IOC - Initial Operational Capability

\$K - Thousands of Dollars

LRIP - Low Rate Initial Production

\$M - Millions of Dollars

MILCON - Military Construction

N/A - Not Applicable

O&S - Operating and Support

Oth - Other

PAUC - Program Acquisition Unit Cost

PB - President's Budget

PE - Program Element

Proc - Procurement

Prod Est - Production Estimate

QR - Quantity Related

Qty - Quantity

RDT&E - Research, Development, Test, and Evaluation

SAR - Selected Acquisition Report

Sch - Schedule

Spt - Support

TBD - To Be Determined

TY - Then Year

UCR - Unit Cost Reporting

B-2 EHF Inc 1 December 2013 SAR

Program Information

Program Name

B-2 Extremely High Frequency SATCOM and Computer Increment 1 (B-2 EHF Inc 1)

DoD Component

Air Force

Responsible Office

Responsible Office

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References

SAR Baseline (Production Estimate)

Air Force Acquisition Executive (AFAE) Approved Acquisition Program Baseline (APB) dated September 20, 2012

Approved APB

Air Force Acquisition Executive (AFAE) Approved Acquisition Program Baseline (APB) dated September 20, 2012

Mission and Description

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.

B-2 Extremely High Frequency SATCOM and Computer Increment 1 program (B-2 EHF Inc 1) supports the replacement of the present B-2 UHF Terminal Set with an EHF SATCOM system that will be compatible with the legacy EHF Satellite (MILSTAR I/II) constellation and the future AEHF satellite constellation. The B-2 EHF Inc 1 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. The B-2 EHF upgrade is a three-increment program. Increment 1 will provide upgraded flight management computer processors, increased data storage, a 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. B-2 EHF Inc 2 would ensure continuing secure, survivable communication capability; and B-2 EHF Inc 3 would enable the B-2 to interface with the Global Information Grid and provide Net Ready capability. This SAR addresses B-2 EHF Inc 1 only.

Executive Summary

B-2 EHF Inc 1 consists of upgraded flight management processors, increased data storage and a high-bandwidth data bus which provide a processing growth path for future B-2 upgrades. The program realized several significant accomplishments during this period. The Aircraft Monitor and Control final report was released on April 2, 2013 and certified the system as compatible for nuclear operations. On April 26, 2013, Air Force Global Strike Command authorized fielding and full-up (conventional and nuclear) use of EHF modified aircraft.

The Engineering and Manufacturing Development (EMD) program successfully concluded. The projected Variance at Completion was reduced from \$9.0M to \$6.8M (3.2% of EMD contract overrun). The EMD contract is complete and is progressing through financial closeout.

The first production installation occurred at Whiteman Air Force Base, MO on October 21, 2013. The next aircraft began modification on February 6, 2014.

There are no significant software-related issues with this program at this time.

Threshold Breaches

APB Breaches									
Schedule									
Performance									
Cost	RDT&E								
	Procurement								
	MILCON								
	Acq O&M								
O&S Cost									
Unit Cost	PAUC								
	APUC								
Nunn-Mc(Curdy Breache	S							
Current UCR I	Baseline								
	PAUC	None							
	APUC	None							
Original UCR I	Baseline								
	PAUC	None							
	APUC	None							

Schedule



Milestones	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Current Estimate
Milestone B	MAY 2007	MAY 2007	MAY 2007	MAY 2007
Milestone C	FEB 2012	FEB 2012	FEB 2012	FEB 2012
Final DIOT&E flight	JUL 2012	JUL 2012	JUL 2012	JUL 2012
RAA	MAR 2015	MAR 2015	MAR 2016	MAR 2015

Change Explanations

None

Memo

RAA is defined as eight assigned aircraft modified, sufficient aircrews and maintenance personnel trained, sufficient aircrew and maintenance trainers upgraded, formal aircrew and maintenance technical orders delivered and adequate spares available to support 509th Bombardment Wing operational tasking. IOC is declared by the Commander, Air Force Global Strike Command when the B-2 operational squadrons have completed each incremental upgrade.

Acronyms and Abbreviations

DIOT&E - Dedicated Initial Operational Test and Evaluation RAA - Required Assets Available

Performance

Characteristics	SAR Baseline Prod Est	Produ	nt APB uction Threshold	Demonstrated Performance	Current Estimate
Information Assurance (IA)	Protection consistent w/the classification of data being stored, processed, or transferred in compliance with Senior Jersey Security Classification Guide and JAFAN 6/3 Manual, Protection Special Access Program Information Within	of data being stored, processed, or transferred in compliance with Senior Jersey Security Classification Guide and JAFAN 6/3 Manual, Protection Special Access Program Information Within	Guide and JAFAN 6/3 Manual, Protection Special Access Program Information Within	Protection consistent w/the classification of data being stored, processed, or transferred in compliance with Senior Jersey Security Classification Guide and JAFAN 6/3 Manual, Protection Special Access Program Information Within	Protection consistent w/the classification of data being stored, processed, or transferred in compliance with Senior Jersey Security Classification Guide and JAFAN 6/3 Manual, Protection Special Access Program Information Within
Flight Management Functionality	Information Systems IFC-P5 functionality shall be maintained	Information Systems IFC-P5 functionality shall be maintained	Information Systems IFC-P5 functionality shall be maintained	Information Systems IFC-P5 functionality maintained	Information Systems IFC-P5 functionality shall be maintained

Requirements Source

Capability Production Document (CPD) dated July 19, 2011

Change Explanations

None

Memo

IFC-P5 is the fifth major block software release for the B-2 Weapon System and is specifically tied to the Radar Modernization Program.

Acronyms and Abbreviations

IFC - Integrated Functional Capability JAFAN - Joint Air Force, Army, Navy

Track to Budget

General Memo

This SAR includes funding only for Increment 1 of the B-2 EHF Program.

RDT&E

Appn	ВА	PE			
Air Force 3600	07	0101127F			
Project		Name			
5345		B-2 EHF Inc 1 Computer Up	1 SATCOM and grade	(Shared)	(Sunk)
Notes:		Complete FY	2011		
6022		B-2 EHF Inc 1 Computer Up	1 SATCOM and grade	(Shared)	(Sunk)
Air Force 3600	05	0604240F		_	
Project		Name			
3843 Notes:		B-2 EHF Inc 1 Computer Up Complete FY	grade	(Shared)	(Sunk)

Prior to FY 2013, PE 0101127F project 6022 also funded B-2 EHF Increment 2.

Procurement

App	n	ВА	PE
Air Force	3010	07	0101127F
	Line Item		Name
	000075		B-2 EHF Inc 1 SATCOM and Computer Upgrade Product (Shared) Support / Depot Activation
Air Force	3010	06	0101127F
	Line Item		Name
	000999		B-2 EHF Inc 1 SATCOM and Computer Upgrade Initial Spares (Shared)
Air Force	3010	07	0101127F
	Line Item		Name
	B00200		B-2 EHF Inc 1 SATCOM and Computer Upgrade Interim (Shared) (Sunk) Contractor Support
Air Force	3010	05	0101127F
	Line Item		Name

	B00200		B-2 EHF Inc 1 SATCOM and Computer Upgrade Modifications	(Shared)
Air Force	3010	07	0101127F	
	Line Item		Name	
B002B0			B-2 EHF Inc 1 SATCOM and Computer Upgrade Interim Contractor Support	(Shared)

Aircraft Procurement, Air Force BA 05 line is shared for all B-2 Modifications (EHF SATCOM is modification number 110026 on the Exhibit P-40, Budget Item Justification). Funding for Initial Spares is in the shared BA 06 line; funding for Post Production Support is provided in BA 07 (Line Item 000075), and funding for Other Production is provided in BA 07 (Line Item B00200 and Line Item B002B0). The BA 07 line is shared for all B-2 Modifications.

Cost and Funding

Cost Summary

Total Acquisition Cost and Quantity

	В	/2012 \$M		BY2012 \$M		TY \$M	
Appropriation	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Current Estimate	SAR Baseline Prod Est	Current APB Production Objective	Current Estimate
RDT&E	450.2	450.2	495.2	430.4	431.5	431.5	411.7
Procurement	129.0	129.0	141.9	121.2	135.2	135.2	127.3
Flyaway				111.6			117.2
Recurring				111.6			117.2
Non Recurring				0.0			0.0
Support				9.6			10.1
Other Support				1.2			1.2
Initial Spares				8.4			8.9
MILCON	0.0	0.0		0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0		0.0	0.0	0.0	0.0
Total	579.2	579.2	N/A	551.6	566.7	566.7	539.0

Confidence Level for Current APB Cost 55% -

This Acquisition Program Baseline (APB) reflects cost and funding data based on the B-2 EHF Increment I Service Cost Position (SCP). This cost estimate was quantified at the Mean (~55%) confidence level.

Quantity	SAR Baseline Prod Est	Current APB Production	Current Estimate
RDT&E	4	4	4
Procurement	16	16	16
Total	20	20	20

Cost and Funding

Funding Summary

Appropriation and Quantity Summary FY2015 President's Budget / December 2013 SAR (TY\$ M)

Appropriation	Prior	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	To Complete	Total
RDT&E	411.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	411.7
Procurement	106.4	11.1	8.8	8.0	0.2	0.0	0.0	0.0	127.3
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2015 Total	518.1	11.1	8.8	8.0	0.2	0.0	0.0	0.0	539.0
PB 2014 Total	537.9	11.9	9.4	0.5	0.0	0.0	0.0	0.0	559.7
Delta	-19.8	-0.8	-0.6	0.3	0.2	0.0	0.0	0.0	-20.7

Quantity	Undistributed	Prior	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	To Complete	Total
Development	4	0	0	0	0	0	0	0	0	4
Production	0	16	0	0	0	0	0	0	0	16
PB 2015 Total	4	16	0	0	0	0	0	0	0	20
PB 2014 Total	4	16	0	0	0	0	0	0	0	20
Delta	0	0	0	0	0	0	0	0	0	0

Cost and Funding

Annual Funding By Appropriation

Annual Funding TY\$

3600 | RDT&E | Research, Development, Test, and Evaluation, Air Force

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
2005							4.4
2006							38.3
2007							75.7
2008							71.6
2009							85.0
2010							49.5
2011							48.5
2012							38.2
2013							0.5
Subtotal	4						411.7

Annual Funding BY\$ 3600 | RDT&E | Research, Development, Test, and Evaluation, Air Force

Fiscal Year	Quantity	End Item Recurring Flyaway BY 2012 \$M	Non End Item Recurring Flyaway BY 2012 \$M	Non Recurring Flyaway BY 2012 \$M	Total Flyaway BY 2012 \$M	Total Support BY 2012 \$M	Total Program BY 2012 \$M
2005							5.0
2006							42.2
2007							81.4
2008							75.4
2009							88.4
2010							50.8
2011							48.9
2012							37.8
2013							0.5
Subtotal	4	-	I	1			430.4

Annual Funding TY\$
3010 | Procurement | Aircraft Procurement, Air Force

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
2012	5	47.8	1.6		49.4	0.1	49.5
2013	11	45.1	7.0		52.1	4.8	56.9
2014			7.5		7.5	3.6	11.1
2015			8.2		8.2	0.6	8.8
2016						8.0	0.8
2017						0.2	0.2
Subtotal	16	92.9	24.3		117.2	10.1	127.3

Annual Funding BY\$
3010 | Procurement | Aircraft Procurement, Air Force

Fiscal Year	Quantity	End Item Recurring Flyaway BY 2012 \$M	Non End Item Recurring Flyaway BY 2012 \$M	Non Recurring Flyaway BY 2012 \$M	Total Flyaway BY 2012 \$M	Total Support BY 2012 \$M	Total Program BY 2012 \$M
2012	5	46.4	1.6		48.0	0.1	48.1
2013	11	42.7	6.6		49.3	4.6	53.9
2014			6.9		6.9	3.4	10.3
2015			7.4		7.4	0.6	8.0
2016						0.7	0.7
2017						0.2	0.2
Subtotal	16	89.1	22.5		111.6	9.6	121.2

Low Rate Initial Production

	Initial LRIP Decision	Current Total LRIP
Approval Date	2/22/2007	1/14/2011
Approved Quantity	2	5
Reference	ADM	ADM
Start Year	2012	2012
End Year	2012	2012

The Current Total LRIP Quantity is more than 10% of the total production quantity due to the need to achieve cost efficiencies within the small B-2 fleet and to deliver this capability in a timely manner.

The LRIP quantity was increased from two to five units in the Milestone C Aquisition Strategy Panel Acquisition Decision Memorandum (ADM) dated January 14, 2011.

Foreign Military Sales

None

Nuclear Costs

None

Unit Cost

Unit Cost Report

Cost

Cost

Quantity

Unit Cost

Quantity

Unit Cost

Average Procurement Unit Cost (APUC)

	BY2012 \$M	BY2012 \$M	
Unit Cost	Current UCR Baseline (SEP 2012 APB)	Current Estimate (DEC 2013 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	579.2	551.6	
Quantity	20	20	
Unit Cost	28.960	27.580	-4.77
Average Procurement Unit Cost (APUC	C)		
Cost	129.0	121.2	
Quantity	16	16	
Unit Cost	8.062	7.575	-6.04
	BY2012 \$M	BY2012 \$M	
Unit Cost	Original UCR Baseline (MAY 2007 APB)	Current Estimate (DEC 2013 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			

718.4

34.210

125.0

7.353

17

21

551.6

27.580

121.2

7.575

16

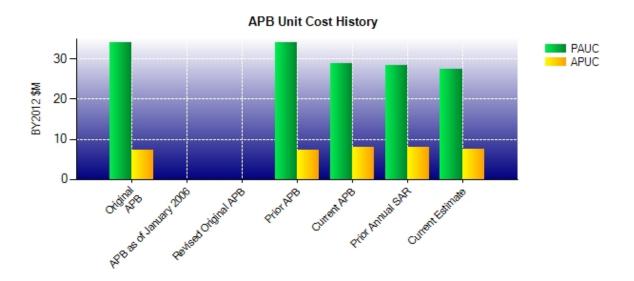
20

-19.38

+3.02

B-2 EHF Inc 1 December 2013 SAR

Unit Cost History



		BY201	2 \$M	TY	\$M	
	Date	PAUC	APUC	PAUC	APUC	
Original APB	MAY 2007	34.210	7.353	33.624	7.747	
APB as of January 2006	N/A	N/A	N/A	N/A	N/A	
Revised Original APB	N/A	N/A	N/A	N/A	N/A	
Prior APB	MAY 2007	34.210	7.353	33.624	7.747	
Current APB	SEP 2012	28.960	8.062	28.335	8.450	
Prior Annual SAR	DEC 2012	28.545	7.981	27.985	8.450	
Current Estimate	DEC 2013	27.580	7.575	26.950	7.956	

SAR Unit Cost History

Initial SAR Baseline to Current SAR Baseline (TY \$M)

Initial PAUC		Changes								
Dev Est	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	Prod Est	
33.624	-0.350	1.381	0.375	0.000	-6.075	0.000	-0.620	-5.289	28.335	

Current SAR Baseline to Current Estimate (TY \$M)

PAUC				Cha	nges				PAUC
Prod Est Econ Qty Sch Eng Est Oth Spt Total							Total	Current Est	
28.335	0.040	0.000	0.000	0.000	-1.465	0.000	0.040	-1.385	26.950

Initial SAR Baseline to Current SAR Baseline (TY \$M)

Initial APUC		Changes							
Dev Est	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	Prod Est
7.747	-0.150	0.109	0.469	0.000	1.050	0.000	-0.775	0.703	8.450

Current SAR Baseline to Current Estimate (TY \$M)

APUC	Changes								APUC
Prod Est	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	Current Est
8.450	0.031	0.000	0.000	0.000	-0.575	0.000	0.050	-0.494	7.956

SAR Baseline History

Item/Event	SAR Planning Estimate (PE)	SAR Development Estimate (DE)	SAR Production Estimate (PdE)	Current Estimate
Milestone I	N/A	N/A	N/A	N/A
Milestone B	N/A	FEB 2007	MAY 2007	MAY 2007
Milestone C	N/A	JUL 2011	FEB 2012	FEB 2012
IOC	N/A	MAR 2014	MAR 2015	MAR 2015
Total Cost (TY \$M)	N/A	706.1	566.7	539.0
Total Quantity	N/A	21	20	20
Prog. Acq. Unit Cost (PAUC)	N/A	33.624	28.335	26.950

Required Assets Available is used in place of IOC.

Cost Variance

	Summa	ary Then Year \$M		
	RDT&E	Proc	MILCON	Total
SAR Baseline (Prod Est)	431.5	135.2		566.7
Previous Changes				
Economic	+0.1	+1.6		+1.7
Quantity				
Schedule				
Engineering				
Estimating	-7.1	-1.5		-8.6
Other				
Support		-0.1		-0.1
Subtotal	-7.0			-7.0
Current Changes				
Economic	+0.2	-1.1		-0.9
Quantity				
Schedule				
Engineering				
Estimating	-13.0	-7.7		-20.7
Other				
Support		+0.9		+0.9
Subtotal	-12.8	-7.9		-20.7
Adjustments				
Total Changes	-19.8	-7.9		-27.7
CE - Cost Variance	411.7	127.3		539.0
CE - Cost & Funding	411.7	127.3		539.0

Summary Base Year 2012 \$M						
	RDT&E	Proc	MILCON	Total		
SAR Baseline (Prod Est)	450.2	129.0		579.2		
Previous Changes						
Economic						
Quantity						
Schedule						
Engineering						
Estimating	-7.0	-1.0		-8.0		
Other						
Support		-0.3		-0.3		
Subtotal	-7.0	-1.3		-8.3		
Current Changes						
Economic						
Quantity						
Schedule						
Engineering						
Estimating	-12.8	-7.6		-20.4		
Other						
Support		+1.1		+1.1		
Subtotal	-12.8	-6.5		-19.3		
Adjustments						
Total Changes	-19.8	-7.8		-27.6		
CE - Cost Variance	430.4	121.2		551.6		
CE - Cost & Funding	430.4	121.2		551.6		

Previous Estimate: December 2012

RDT&E		\$M	
Current Change Explanations	Base Year	Then Year	
Revised escalation indices. (Economic)	N/A	+0.2	
Adjustment for current and prior escalation. (Estimating)	-0.2	-0.2	
Decrease due to unrealized risk and fact of life changes and realignment of funds to other B-2 programs in FY 2011 and FY 2013. (Estimating)	-6.1	-6.3	
Decrease due to FY 2012 funding sourced for recission. (Estimating)	-6.5	-6.5	
RDT&E Subtotal	-12.8	-12.8	

Procurement	\$1	\$M	
Current Change Explanations	Base Year	Then Year	
Revised escalation indices. (Economic)	N/A	-1.1	
Adjustment for current and prior escalation. (Estimating)	+0.8	+1.0	
Decrease due to fact of life changes and reallocation of management reserve to other B-2 efforts. (Estimating)	-1.0	-0.9	
Revised estimate due to Sequestration reductions in FY 2013. (Estimating)	-7.4	-7.8	
Adjustment for current and prior escalation. (Support)	+0.2	0.0	
Other Support increase due to Depot Activation funding previously reported as non-recurring flyaway. (Support)	+0.1	+0.1	
Increase in Initial Spares due to approved program funding not required for contracted deliveries. (Support)	+0.8	+0.8	
Procurement Subtotal	-6.5	-7.9	

B-2 EHF Inc 1 December 2013 SAR

Contracts

Appropriation: Procurement

Contract Name EHF Inc 1 SatCom Production

Contractor Northrop Grumman Corp.
Contractor Location Palmdale, CA 93550

Contract Number, Type F33657-99-D-0028/62, FFP

Award Date September 27, 2012 Definitization Date September 27, 2012

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price at Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
108.1	N/A	16	108.1	N/A	16	108.1	108.1

Cost and Schedule Variance Explanations

Cost and Schedule Variance reporting is not required on this FFP contract.

Contract Comments

Contract awarded September 27, 2012, for LRIP, with three options, one for Full Rate Production, and two for installs.

Deliveries and Expenditures

Delivered to Date	Plan to Date	Actual to Date	Total Quantity	Percent Delivered
Development	4	4	4	100.00%
Production	0	0	16	0.00%
Total Program Quantity Delivered	4	4	20	20.00%

Expended and Appropriated (TY \$M)					
Total Acquisition Cost	539.0	Years Appropriated	10		
Expended to Date	446.2	Percent Years Appropriated	76.92%		
Percent Expended	82.78%	Appropriated to Date	529.2		
Total Funding Years	13	Percent Appropriated	98.18%		

The above data is current as of 2/14/2014.

Operating and Support Cost

B-2 EHF Inc 1

Assumptions and Ground Rules

Cost Estimate Reference:

The cost estimate is the based on the FY 2012 Program Office Estimate and Air Force Cost Analysis Agency Independent Cost Estimate which was reviewed by the Air Force Cost Analysis Improvement Group on July 24, 2012 and resulted in the Service Cost Position.

Sustainment Strategy:

The maintenance concept for the B-2 EHF Inc 1 is two level (organizational and depot). Organizational maintenance will consist of Air Force maintenance personnel removing and replacing failed items, performing preventative maintenance, and conducting fault isolation actions. All repairs of the Line Replaceable Units (LRUs) removed from the B-2 aircraft will be accomplished at the depot level. The source of repair for depot maintenance for Increment 1 was initially projected to be Warner Robins Air Logistics Complex (WR-ALC) for the two LRUs, the Integrated Processing Unit and the Disk Drive Unit. An Office Under Secretary Defense/Acquisition, Technology & Logistics action item out of July 2011 Defense Acquisition Executive Summary briefing directed reassessment of the organic depot strategy based on LRU reliability projections. In response, a Workload Shift package (from organic repair at WR-ALC to Contractor Depot Repair) was submitted and approved. The System Development and Demonstration (SDD) contract requires delivery of repair data and associated training. The planning for establishing this repair capability will be accomplished during the SDD contract. There are no increased O&S costs associated with B-2 EHF Inc 1, because improved reliability and maintainability provided by this modification are projected to reduce O&S costs incurred for B-2 legacy computers. The B-2 EHF Inc 1 modification is replacing two legacy LRUs with two high reliability LRUs, per Mean Time Between Failure estimates, in each of the 20 aircraft. The unitized cost is the average annual cost to maintain the modification on the entire fleet based on the 35 years of operations covered by the estimate.

Antecedent Information:

There is no antecedent system for this modification capability.

Unitized O&S Costs BY2012 \$K					
Cost Element	B-2 EHF Inc 1 1 Aircraft	None (Antecedent) N/A			
Unit-Level Manpower	22.851	0.000			
Unit Operations	0.235	0.000			
Maintenance	46.634	0.000			
Sustaining Support	55.031	0.000			
Continuing System Improvements	17.873	0.000			
Indirect Support	7.983	0.000			
Other	0.000	0.000			
Total	150.607				

Unitized Cost Comments:

The annual O&S cost for one aircraft in service for 35 years. \$105.4M/20/35=\$0.15M

	Total O&S Cost \$M				
	Current Production APB Objective/Threshold		Current Estimate		
	B-2 EHF Inc 1		B-2 EHF Inc 1	None (Antecedent)	
Base Year	105.4	115.9	105.4	N/A	
Then Year	151.0	N/A	151.0	N/A	

Total O&S Costs Comments:

The estimate covers 35 years of operations (FY 2013 - 2048) for 20 Primary Aircraft Authorized flying over 7,100 flight hours per year at steady state.

Disposal Costs:

Disposal costs for this modification are included in the B-2 platform.