



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 December 31, 2012

Defense Acquisition Management
Information Retrieval
(DAMIR)

Table of Contents

Program Information	3
Responsible Office	3
References	3
Mission and Description	4
Executive Summary	5
Threshold Breaches	6
Schedule	7
Performance	8
Track To Budget	10
Cost and Funding	12
Low Rate Initial Production	18
Foreign Military Sales	19
Nuclear Cost	19
Unit Cost	20
Cost Variance	23
Contracts	26
Deliveries and Expenditures	27
Operating and Support Cost	28

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. 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 EHF Satellite (MILSTAR I/II) 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). The B-2 EHF SATCOM 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 (FMOFP), 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 (IPU) and Disk Drive Unit (DDU) 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 would ensure continuing secure, survivable communication capability; and Increment 3 would enable the B-2 to interface with the Global Information Grid (GIG) and provide Net Ready capability. This SAR addresses Increment 1 only.

Executive Summary

The program realized several significant accomplishments during this period. The Low Rate Initial Production (LRIP) contract was awarded on September 27, 2012. The Engineering and Manufacturing Development (EMD) program's second and final test aircraft completed installation at Whiteman Air Force Base on November 20, 2012. The Final Air Force Operational Test and Evaluation Center (AFOTEC) Initial Operational Test and Evaluation (IOT&E) report was approved on October 26, 2012; the report states that EHF Increment 1 is suitable, effective, and mission capable. The Beyond LRIP report was released in December 2012 enabling the Full Rate Production (FRP) Decision Review. The FRP Decision Review was successfully completed on December 12, 2012 allowing the final Acquisition Decision Memorandum (ADM) authorizing FRP award to be signed on December 21, 2012. The FRP contract option was subsequently awarded on December 27, 2012 completing the procurement of the remaining quantity of 11 shipsets. The first production install is planned to begin in July 2013.

The development contract Variance at Completion is projected at \$9.0M (4.2% of EMD contract overrun). With the completion of the major software development effort and incorporation of must-fix software deficiencies, pressure to the contract cost baseline has subsided.

Program shifted from organic repair at Warner Robins-Air Logistics Complex (WR-ALC) to contractor depot repair via Joint Depot Source of Repair (DSOR) decision memorandum signed May 10, 2012.

The Air Force Acquisition Executive (AFAE) certified that the B-2 EHF Inc 1 Program was in compliance with the requirements of Section 2366a of Title 10, United States Code on May 30, 2007.

There are no significant software-related issues with this program at this time. However, two minor unplanned software releases were accomplished due to discovery of anomalies. The new releases delayed planned Aircraft Monitor and Control (AMAC) testing and the original fielding date. AMAC testing has since been accomplished completing on January 31, 2013 with the final report released on April 2, 2013. Full-up fielding has been adjusted from March 13, 2013 to April 26, 2013 per coordination with Air Force Nuclear Warfare Center (AFNWC) and Air Force Global Strike Command. Global Strike Command authorized limited early fielding of B-2 EHF Inc 1 modified aircraft on December 19, 2012.

Threshold Breaches

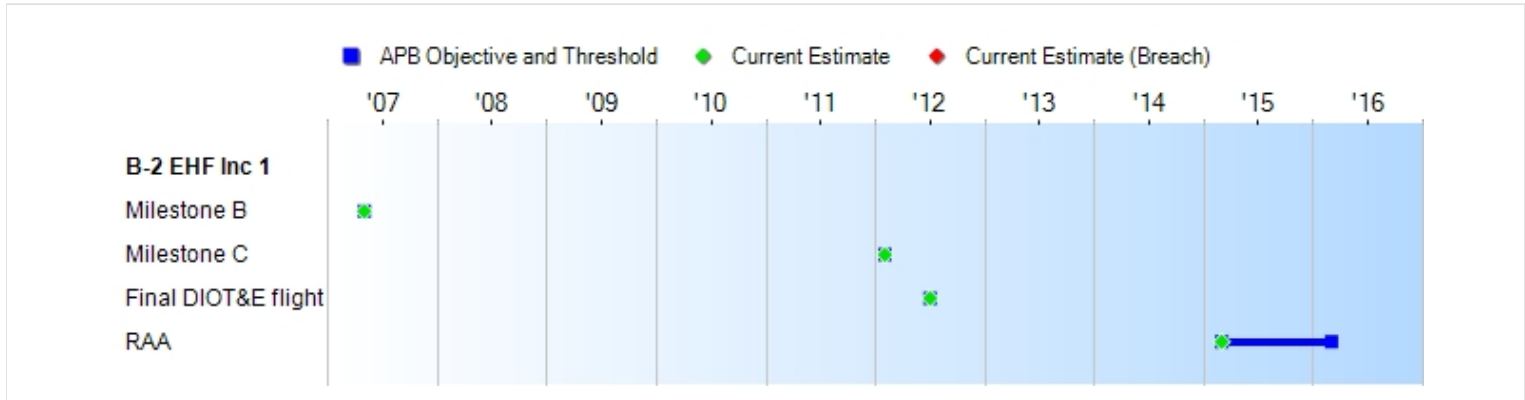
APB Breaches		
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Schedule		<input type="checkbox"/>
Performance		<input type="checkbox"/>
Cost	RDT&E	<input type="checkbox"/>
	Procurement	<input type="checkbox"/>
	MILCON	<input type="checkbox"/>
	Acq O&M	<input type="checkbox"/>
O&S Cost		<input type="checkbox"/>
Unit Cost	PAUC	<input type="checkbox"/>
	APUC	<input type="checkbox"/>

Nunn-McCurdy Breaches		
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Current UCR Baseline		
	PAUC	None
	APUC	None
Original UCR Baseline		
	PAUC	None
	APUC	None

Schedule



Milestones	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Current Estimate
		Objective	Threshold	
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

Acronyms And Abbreviations

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

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. Initial Operational Capability is declared by the Commander, Air Force Global Strike Command when the B-2 operational squadrons have completed each incremental upgrade.

Performance

Characteristics	SAR Baseline Prod Est	Current APB Production Objective/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 Information Systems	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 Information Systems	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 Information Systems	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 Information Systems	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 Information Systems
Flight Management Functionality	IFC-P5 functionality shall be maintained	IFC-P5 functionality shall be maintained	IFC-P5 functionality shall be maintained	IFC-P5 functionality maintained	IFC-P5 functionality shall be maintained

Requirements Source: Capability Production Document (CPD) dated July 19, 2011

Acronyms And Abbreviations

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

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.

Track To Budget

General Memo

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

RDT&E

APPN 3600	BA 07	PE 0101127F	(Air Force)	
	Project 5345	B-2 EHF Inc 1 SATCOM and Computer Upgrade	(Shared)	(Sunk)
	Complete FY 2011			
	Project 6022	B-2 EHF Inc 1 SATCOM and Computer Upgrade	(Shared)	(Sunk)
APPN 3600	BA 05	PE 0604240F	(Air Force)	
	Project 3843	B-2 EHF Inc 1 SATCOM and Computer Upgrade	(Shared)	(Sunk)
	Complete FY 2009			

RDT&E funding for this program is provided under Program Element 0101127F, project 6022. Prior to FY 2013, this project 6022 also funded B-2 EHF Increment 2 .

Procurement

APPN 3010	BA 07	PE 0101127F	(Air Force)
	ICN 000075	B-2 EHF Inc 1 SATCOM and Computer Upgrade Product Support / Depot Activation	(Shared)
APPN 3010	BA 06	PE 0101127F	(Air Force)
	ICN 000999	B-2 EHF Inc 1 SATCOM and Computer Upgrade Initial Spares	(Shared)
APPN 3010	BA 05	PE 0101127F	(Air Force)
	ICN B00200	B-2 EHF Inc 1 SATCOM and Computer Upgrade Modifications	(Shared)

APPN 3010	BA 07	PE 0101127F	(Air Force)	
	ICN B00200	B-2 EHF Inc 1 SATCOM and Computer Upgrade Interim Contractor Support	(Shared)	(Sunk)
	ICN 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 (ICN 000075), and funding for Other Production is provided in BA 07 (ICN B00200 and ICN B002B0). The BA 07 line is shared for all B-2 Modifications

Cost and Funding

Cost Summary

Total Acquisition Cost and Quantity

Appropriation	BY2012 \$M			BY2012 \$M	TY \$M		
	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	443.2	431.5	431.5	424.5
Procurement	129.0	129.0	141.9	127.7	135.2	135.2	135.2
Flyaway	120.2	--	--	119.2	126.0	--	126.0
Recurring	120.2	--	--	119.2	126.0	--	126.0
Non Recurring	0.0	--	--	0.0	0.0	--	0.0
Support	8.8	--	--	8.5	9.2	--	9.2
Other Support	1.1	--	--	1.1	1.1	--	1.1
Initial Spares	7.7	--	--	7.4	8.1	--	8.1
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	570.9	566.7	566.7	559.7

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
Procurement		16	16
Total		20	20

Cost and Funding

Funding Summary

Appropriation and Quantity Summary FY2014 President's Budget / December 2012 SAR (TY\$ M)

Appropriation	Prior	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	To Complete	Total
RDT&E	418.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	424.5
Procurement	50.0	63.4	11.9	9.4	0.5	0.0	0.0	0.0	135.2
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 2014 Total	468.2	69.7	11.9	9.4	0.5	0.0	0.0	0.0	559.7
PB 2013 Total	468.6	81.0	13.6	10.1	0.7	0.0	0.0	0.0	574.0
Delta	-0.4	-11.3	-1.7	-0.7	-0.2	0.0	0.0	0.0	-14.3

Program funding and production quantities listed in this SAR are consistent with the FY 2014 President's Budget (PB). The FY 2014 PB did not reflect the enacted DoD appropriation for FY 2013, nor sequestration; it reflected the President's requested amounts for FY 2013.

Quantity	Undistributed	Prior	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	To Complete	Total
Development	4	0	0	0	0	0	0	0	0	4
Production	0	5	11	0	0	0	0	0	0	16
PB 2014 Total	4	5	11	0	0	0	0	0	0	20
PB 2013 Total	4	5	11	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	--	--	--	--	--	--	49.0
2012	--	--	--	--	--	--	44.7
2013	--	--	--	--	--	--	6.3
Subtotal	4	--	--	--	--	--	424.5

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	--	--	--	--	--	--	42.3
2007	--	--	--	--	--	--	81.4
2008	--	--	--	--	--	--	75.5
2009	--	--	--	--	--	--	88.5
2010	--	--	--	--	--	--	50.9
2011	--	--	--	--	--	--	49.4
2012	--	--	--	--	--	--	44.1
2013	--	--	--	--	--	--	6.1
Subtotal	4	--	--	--	--	--	443.2

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	48.3	1.6	--	49.9	0.1	50.0
2013	11	49.8	10.1	--	59.9	3.5	63.4
2014	--	--	7.7	--	7.7	4.2	11.9
2015	--	--	8.5	--	8.5	0.9	9.4
2016	--	--	--	--	--	0.5	0.5
Subtotal	16	98.1	27.9	--	126.0	9.2	135.2

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	46.6	1.6	--	48.2	0.1	48.3
2013	11	46.8	9.4	--	56.2	3.3	59.5
2014	--	--	7.1	--	7.1	3.9	11.0
2015	--	--	7.7	--	7.7	0.8	8.5
2016	--	--	--	--	--	0.4	0.4
Subtotal	16	93.4	25.8	--	119.2	8.5	127.7

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 Low Rate Initial Production (LRIP) quantity was increased from two to five units in the Acquisition Decision Memorandum dated January 14, 2011.

Foreign Military Sales

None

Nuclear Cost

None

Unit Cost**Unit Cost Report**

	BY2012 \$M	BY2012 \$M	
Unit Cost	Current UCR Baseline (SEP 2012 APB)	Current Estimate (DEC 2012 SAR)	BY % Change

Program Acquisition Unit Cost (PAUC)

Cost	579.2	570.9	
Quantity	20	20	
Unit Cost	28.960	28.545	-1.43

Average Procurement Unit Cost (APUC)

Cost	129.0	127.7	
Quantity	16	16	
Unit Cost	8.062	7.981	-1.00

	BY2012 \$M	BY2012 \$M	
Unit Cost	Original UCR Baseline (MAY 2007 APB)	Current Estimate (DEC 2012 SAR)	BY % Change

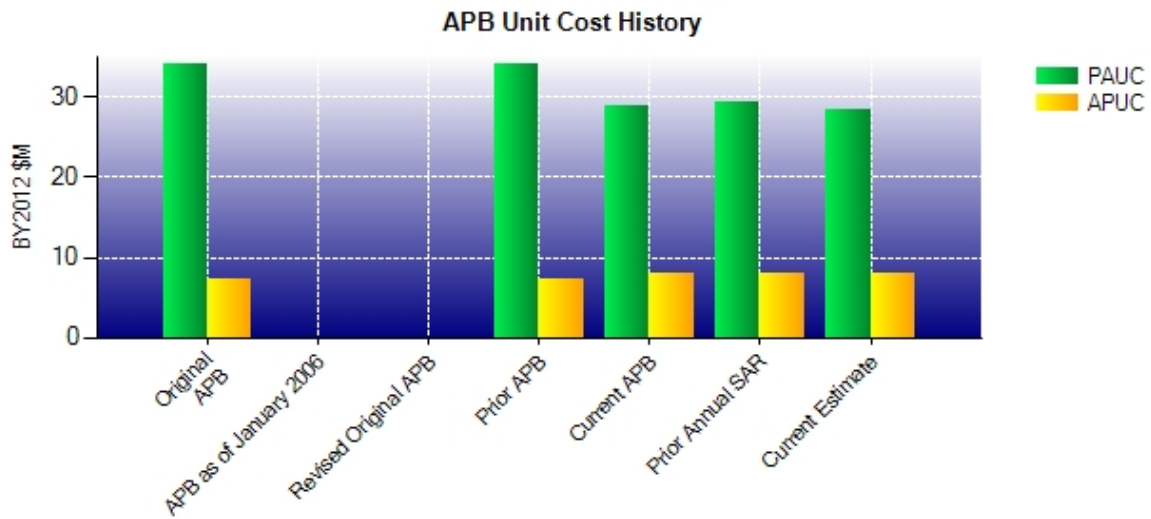
Program Acquisition Unit Cost (PAUC)

Cost	718.4	570.9	
Quantity	21	20	
Unit Cost	34.210	28.545	-16.56

Average Procurement Unit Cost (APUC)

Cost	125.0	127.7	
Quantity	17	16	
Unit Cost	7.353	7.981	+8.54

Unit Cost History



	Date	BY2012 \$M		TY \$M	
		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 2011	29.315	7.944	28.700	8.331
Current Estimate	DEC 2012	28.545	7.981	27.985	8.450

SAR Unit Cost History

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

Initial PAUC Dev Est	Changes								PAUC Prod Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
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 Prod Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
28.335	0.085	0.000	0.000	0.000	-0.430	0.000	-0.005	-0.350	27.985

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

Initial APUC Dev Est	Changes								APUC Prod Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
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 Prod Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
8.450	0.100	0.000	0.000	0.000	-0.094	0.000	-0.006	0.000	8.450

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	559.7
Total Quantity	N/A	21	20	20
Prog. Acq. Unit Cost (PAUC)	N/A	33.624	28.335	27.985

Required Assets Available (RAA) is used in place of Initial Operational Capability (IOC).

Cost Variance

Summary Then Year \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Prod Est)	431.5	135.2	--	566.7
Previous Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	--	--	--	--
Other	--	--	--	--
Support	--	--	--	--
Subtotal	--	--	--	--
Current 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
Adjustments	--	--	--	--
Total Changes	-7.0	--	--	-7.0
CE - Cost Variance	424.5	135.2	--	559.7
CE - Cost & Funding	424.5	135.2	--	559.7

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	--	--	--	--
Other	--	--	--	--
Support	--	--	--	--
Subtotal	--	--	--	--
Current 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
Adjustments	--	--	--	--
Total Changes	-7.0	-1.3	--	-8.3
CE - Cost Variance	443.2	127.7	--	570.9
CE - Cost & Funding	443.2	127.7	--	570.9

Previous Estimate: September 2012

RDT&E	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	+0.1
Realignment of FY 2012 funds were realigned to other B-2 programs. (Estimating)	-6.9	-7.0
Adjustment for current and prior escalation. (Estimating)	-0.1	-0.1
RDT&E Subtotal	-7.0	-7.0

Procurement	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	+1.6
Adjustment for current and prior escalation. (Estimating)	-1.1	-1.2
Revised estimate to reflect application of new escalation indices. (Estimating)	+0.1	-0.3
Adjustment for current and prior escalation. (Support)	-0.1	-0.1
Decrease in Initial Spares base year budget due to rephasing of FY 2014 funding to FY 2015 and FY 2016. (Support)	-0.2	0.0
Procurement Subtotal	-1.3	0.0

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 Low Rate Initial Production, with three options, one for Full Rate Production, and two for installs.

Deliveries and Expenditures

Deliveries 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 Quantities Delivered	4	4	20	20.00%

Expenditures and Appropriations (TY \$M)			
Total Acquisition Cost	559.7	Years Appropriated	9
Expenditures To Date	431.6	Percent Years Appropriated	75.00%
Percent Expended	77.11%	Appropriated to Date	537.9
Total Funding Years	12	Percent Appropriated	96.11%

The above data is current as of 3/31/2013.

Operating and Support Cost

B-2 EHF Inc 1

Assumptions and Ground Rules

Cost Estimate Reference:

The cost estimate is 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 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 Line Replaceable Units, the Integrated Processing Unit and the Disk Drive Unit. An OUSD/AT&L action item out of July 2011 Defense Acquisition Executive Summary briefing directed reassessment of the organic depot strategy based on Line Replaceable Unit 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 operating and support (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 line replaceable units (LRU) 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	Antecedent System (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 Operating and Support 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	Antecedent System (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.