UNCLASSIFIED



Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-431



B-2 Defensive Management System - Modernization (B-2 DMS-M)

As of FY 2019 President's Budget

Defense Acquisition Management Information Retrieval (DAMIR)

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Sensitivity Originator

No originator info Available at this time.

Common Acronyms and Abbreviations for MDAP Programs

Acq O&M - Acquisition-Related Operations and Maintenance

ACAT - Acquisition Category

ADM - Acquisition Decision Memorandum

APB - Acquisition Program Baseline

APPN - Appropriation

APUC - Average Procurement Unit Cost

\$B - Billions of Dollars

BA - Budget Authority/Budget Activity

Blk - Block

BY - Base Year

CAPE - Cost Assessment and Program Evaluation

CARD - Cost Analysis Requirements Description

CDD - Capability Development Document

CLIN - Contract Line Item Number

CPD - Capability Production Document

CY - Calendar Year

DAB - Defense Acquisition Board

DAE - Defense Acquisition Executive

DAMIR - Defense Acquisition Management Information Retrieval

DoD - Department of Defense

DSN - Defense Switched Network

EMD - Engineering and Manufacturing Development

EVM - Earned Value Management

FOC - Full Operational Capability

FMS - Foreign Military Sales

FRP - Full Rate Production

FY - Fiscal Year

FYDP - Future Years Defense Program

ICE - Independent Cost Estimate

IOC - Initial Operational Capability

Inc - Increment

JROC - Joint Requirements Oversight Council

\$K - Thousands of Dollars

KPP - Key Performance Parameter

LRIP - Low Rate Initial Production

\$M - Millions of Dollars

MDA - Milestone Decision Authority

MDAP - Major Defense Acquisition Program

MILCON - Military Construction

N/A - Not Applicable

O&M - Operations and Maintenance

ORD - Operational Requirements Document

OSD - Office of the Secretary of Defense

O&S - Operating and Support

PAUC - Program Acquisition Unit Cost

PB - President's Budget

PE - Program Element

PEO - Program Executive Officer

PM - Program Manager

POE - Program Office Estimate

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

SAR - Selected Acquisition Report

SCP - Service Cost Position

TBD - To Be Determined

TY - Then Year

UCR - Unit Cost Reporting

U.S. - United States

USD(AT&L) - Under Secretary of Defense (Acquisition, Technology and Logistics)

Program Information

Program Name

B-2 Defensive Management System - Modernization (B-2 DMS-M)

DoD Component

Air Force

Responsible Office

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Date Assigned: June 27, 2016

References

SAR Baseline (Development Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated May 16, 2016

Approved APB

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated May 16, 2016

Mission and Description

The B-2 Defensive Management System (DMS) is a principal enabler of survivability for the B-2 stealth bomber aircraft. The legacy DMS Threat Emitter Locator System (TELS) detects, identifies, and locates enemy radar systems and provides real-time threat avoidance, threat warning, and threat situational awareness information to the aircrew. Shortcomings within the TELS limits overall B-2 operational capability and survivability necessitating modernization.

A B-2 equipped with DMS Modernization must be capable of operating in current and projected threat environments during all mission phases and against a broad range of threats. Continued and rapid developments and/or technological improvements in worldwide air defense capabilities will place a premium on developing flexible and expandable B-2 aircraft survivability systems.

Executive Summary

B-2 DMS-M is an ACAT ID program in the EMD Phase.

After completing the Technology Maturation and Risk Reduction (TMRR) phase and System Preliminary Design Review (PDR) the DMS-M program was deemed ready to enter the EMD phase. The USD (AT&L) signed the Milestone B ADM on March 24, 2016 authorizing entrance into the EMD phase and contract award. A Cost-Plus Incentive Fee (CPIF) contract for the EMD portion of the DMS-M Program was awarded to Northrop Grumman Aerospace Systems (NGAS) Corporation on March 25, 2016. Production will be via LRIP and FRP contracts awarded at a future date.

Milestone B Certification was made pursuant to 10 United States Code 2366b; however, provision (a)(3)(D) was waived by the USD (AT&L). The program required a USD (AT&L) waiver because the Air Force FY 2017 President's Budget position was less than the Service Cost Position (SCP) reflected in the FYDP and the Department would be unable to meet critical national security objectives if there was a delay in obtaining the DMS-M capability for the B-2. Per the program ADM dated, March 24, 2016, the Air Force updated the SCP in November 2016 and fully funded the DMS-M program to the updated SCP.

The MDA approved an updated Acquisition Strategy and signed an ADM on May 11, 2017. The ADM authorizes the program to change the technical architecture and contract type via Engineering Change Proposal (ECP). The program awarded an Undefinitized Contract Action (UCA) on May 24, 2017 to implement the changes. The program will continue to have software development, integration and test efforts. All efforts are being made to maintain original APB Schedule Threshold dates.

Since UCA award the program has successfully conducted a delta System Requirements Review and System Functional Review on August 28, 2017 (Integrated Master Plan Event B). The definitization proposal was received October 10, 2017 and is currently being evaluated. Contract information in this report will be updated upon UCA definitization.

The program office will accomplish a new SCP pursuant to the May 2017 Acquisition Strategy ADM. Initial drafts of the updated SCP initiated cost saving architecture trades which concluded in January 2018. Efforts to update the SCP have resumed. Potential changes in design configuration have resulted in Preliminary Design Review (PDR) moving from first quarter FY 2018 to second quarter FY 2018 and Critical Design Review (CDR) from third quarter FY 2018 to fourth quarter FY 2018. Projected dates are PM assessments pending an Integrated Baseline Review approved Integrated Master Schedule expected in second quarter FY 2018.

NGAS is behind schedule with software version PD7.1 development. Their development team has not been able to achieve required staff increases or Agile Sprint efficiencies necessary to expeditiously complete functionality planned for each Sprint. NGAS mitigation strategies to recover include expanded overtime for existing staff while additional staff are hired and acquire the appropriate clearances. Additional software development teams have been made available at two additional Northrop Grumman locations and efforts are under way to identify any additional existing software that can be leveraged to reduce the development scope. These mitigation strategies produced encouraging results during January 2018 resulting in the highest quantity of story points completed to date. The program office continues to closely monitor the effectiveness of these mitigations.

Threshold Breaches

APB Breach	ies	
Schedule		
Performanc	е	
Cost	RDT&E	
	Procurement	
	MILCON	
	Acq O&M	
O&S Cost	177	
Unit Cost	PAUC	
	APUC	

Nunn-McCurdy Breaches

Current UCR Baseline

PAUC None APUC None

Original UCR Baseline

PAUC None APUC None

Schedule



Schedule Events										
Events	SAR Baseline Development Estimate	Deve	ent APB lopment e/Threshold	Current Estimate						
Materiel Development Decision	Jun 2010	Jun 2010	Jun 2010	Jun 2010						
Milestone A	Aug 2011	Aug 2011	Aug 2011	Aug 2011						
Milestone B	Mar 2016	Mar 2016	Mar 2016	Mar 2016						
Post Block 30 Development 7.1 Certification	Dec 2018	Dec 2018	Jun 2019	Jun 2019						
Milestone C	Dec 2019	Dec 2019	Jun 2020	Jun 2020						
Initial Operational Test and Evaluation Start	Jun 2020	Jun 2020	Dec 2020	Dec 2020						
RAA	Dec 2021	Dec 2021	Jun 2022	Jun 2022						

Change Explanations

(Ch-1) Post Block 30 Development 7.1 Certification current estimate has changed from April 2019 to June 2019 due to the initial software development delays.

(Ch-2) Milestone C current estimate has changed from April 2020 to June 2020 due to incorporation of the new system architecture per the May 2017 Acquisition Strategy update.

(Ch-3) Initial Operational Test and Evaluation Start current estimate has changed form August 2020 to December 2020 due to incorporation of the new system architecture per the May 2017 Acquisition Strategy update.

(Ch-4) RAA current estimate has changed from February 2022 to June 2022 due to incorporation of the new system architecture per the May 2017 Acquisition Strategy update.

Notes

RAA is defined by Air Force Global Strike Command as:

- Eight aircraft modified with operational B-2 DMS M system
- Sufficient spare parts to support modified aircraft
- Sufficient support equipment for modified aircraft

- Updated aircrew and maintenance technical manuals, maintenance training and academic courseware
 Mission planning system software updated to provide B-2 DMS M compatibility

There are known risks with this program. Please see "Change Explanations" noting software development.

Acronyms and Abbreviations

RAA - Required Assets Available

Performance

	Perfo	rmance Characteristics		
SAR Baseline Development Estimate	Develo	nt APB opment /Threshold	Demonstrated Performance	Current Estimate
Survivability				
The aircraft with B-2 DMS Mod installed shall meet RCS levels of the B-2 WSS, Appendix 70	The aircraft with B-2 DMS Mod installed shall meet RCS levels of the B-2 WSS, Appendix 70	(T=O) The aircraft with B-2 DMS Mod installed shall meet RCS levels of the B-2 WSS, Appendix 70	TBD	The aircraft with B-2 DMS Mod installed shall meet RCS levels of the B-2 WSS, Appendix 70
Sustainment (Availabil	ity) has two components	s: Ao & Am		
The Ao of the B-2 DMS Mod upgrade shall be a minimum of 99.7% at system maturity. B-2 DMS Mod shall support the B-2 DMS Mod B-2 fleet platform Am target of 60% without the need for component cannibalizations.	The Ao of the B-2 DMS Mod upgrade shall be a minimum of 99.7% at system maturity. B-2 DMS Mod shall support the B-2 DMS Mod B-2 fleet platform Am target of 60% without the need for component cannibalizations.	(T=O) The Ao of the B-2 DMS Mod upgrade shall be a minimum of 99.7% at system maturity. B-2 DMS Mod shall support the B-2 DMS Mod B-2 fleet platform Am target of 60% without the need for component cannibalizations.	TBD	The Ao of the B-2 DMS Mod upgrade shall be a minimum of 99.7% at system maturity. B-2 DMS Mod shall support the B-2 DMS Mod B-2 fleet platform Am target of 60% without the need for component cannibalizations.
DPU Functionality				
B-2 DMS Mod shall maintain mission-critical legacy DPU capability in addition to enhancements provided by B-2 DMS Mod consistent with Integrated Functional Capability Production Version 6 baseline.	B-2 DMS Mod shall maintain mission-critical legacy DPU capability in addition to enhancements provided by B-2 DMS Mod consistent with Integrated Functional Capability Production Version 6 baseline.	(T=O) B-2 DMS Mod shall maintain mission- critical legacy DPU capability in addition to enhancements provided by B-2 DMS Mod consistent with Integrated Functional Capability Production Version 6 baseline.	TBD	B-2 DMS Mod shall maintain mission-critical legacy DPU capability in addition to enhancements provided by B-2 DMS Mod consistent with Integrated Functional Capability Production Version 6 baseline.

Classified Performance information is provided in the classified annex to this submission.

Requirements Reference

CDD - JROC approved April 15, 2013 and Air Force Requirements Oversight Council revalidated June 12, 2015

Change Explanations

None

Acronyms and Abbreviations

AFROC - Air Force Requirements Oversight Council

Am - Materiel Availability

Am - Materiel Availability
Ao - Aircraft Availability
DMS - Defensive Management System
DPU - Display Processing Unit
RCS - Radar Cross Section
WSS - Weapons System Specification

Track to Budget

General Notes

3010 and 3600 funding for the B-2 Defensive Management System Modernization (DMS-M) program were originally embedded within the primary B-2 Program Element. These lines are shared with other B-2 programs that support the B-2 weapon system. DMS-M RDT&E was realigned to PE 605931F in 2013.

T&E				
Appn		BA	PE	
Air Force	3600	07	0101127F	
	Proj	ect	Name	
	675345	5	B-2 Modernization	(Sunk)
	676023	3	B-2 DMS-M	(Sunk)
Air Force	3600	05	0605931F	
	Proj	ect	Name	
	653844	1	B-2 Defensive Management System	
rocurement				
Appn		BA	PE	
Air Force	3010	07	0101127F	
	Line	Item	Name	
	000075	5	Other Production Charges	(Shared)
Air Force	3010	06	0101127F	_
	Line	Item	Name	
	000999)	Initial Spares/Repair Parts	(Shared)
Air Force	3010	05	0101127F	
	Line	ltem	Name	
	B0020	0	B-2 Defensive Management System: Modifications	(Shared)
Air Force	3010	07	0101127F	
	Line	ltem	Name	
	B0020	0	B-2 Defensive Management System: Depot Activation	(Shared)
Air Force	3010	05	0101127F	J.
	Line	ltem	Name	
	B2DMS	S0	B-2 Defensive Management System: Modifications	

Cost and Funding

Cost Summary

		Т	otal Acquis	sition Cost			
	B)	/ 2016 \$M		BY 2016 \$M		TY \$M	
Appropriation	SAR Baseline Development Estimate	Current Develop Objective/T	ment	Current Estimate	SAR Baseline Development Estimate	Current APB Development Objective	Current Estimate
RDT&E	1821.9	1821.9	2004.1	1849.4	1846.2	1846.2	1880.5
Procurement	734.3	734.3	807.7	774.6	838.3	838.3	886.1
Flyaway			4-	701.9			801.3
Recurring				701.9	-	1/4	801.3
Non Recurring	**		**	0.0			0.0
Support				72.7			84.8
Other Support				33.9			39.5
Initial Spares				38.8			45.3
MILCON	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
Total	2556.2	2556.2	N/A	2624.0	2684.5	2684.5	2766.6

Current APB Cost Estimate Reference

B-2 DMS Mod SCP dated October 02, 2015

Cost Notes

In accordance with Section 842 of the National Defense Authorization Act for FY 2017, which amended title 10 U.S.C. § 2334, the Director of Cost Assessment and Program Evaluation, and the Secretary of the military department concerned or the head of the Defense Agency concerned, must issue guidance requiring a discussion of risk, the potential impacts of risk on program costs, and approaches to mitigate risk in cost estimates for MDAPs and major subprograms. The information required by the guidance is to be reported in each SAR. This guidance is not yet available; therefore, the information on cost risk is not contained in this SAR.

	Total Quantity								
Quantity	SAR Baseline Development Estimate	Current APB Development	Current Estimate						
RDT&E	4	4	4						
Procurement	16	16	16						
Total	20	20	20						

Cost and Funding

Funding Summary

	Appropriation Summary FY 2019 President's Budget / December 2017 SAR (TY\$ M)											
	į.	Y 2019 Pre	sident's B	udget / Dec	cember 20	17 SAR (T)	/\$ M)					
Appropriation	Prior	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total			
RDT&E	1267.3	194.6	261.8	135.7	20.7	0.2	0.2	0.0	1880.5			
Procurement	0.0	0.0	0.0	279.8	389.7	107.3	109.3	0.0	886.1			
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 2019 Total	1267.3	194.6	261.8	415.5	410.4	107.5	109.5	0.0	2766.6			
PB 2018 Total	1276.4	194.6	263.7	418.7	413.5	108.5	0.0	0.0	2675.4			
Delta	-9.1	0.0	-1.9	-3.2	-3.1	-1.0	109.5	0.0	91.2			

	EV 00	do Dessi		antity Su		0047.04	D (TVA N	1		
Quantity	Undistributed	19 Presid	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Development	4	0	0	0	0	0	0	0	0	4
Production	0	0	0	0	6	10	0	0	0	16
PB 2019 Total	4	0	0	0	6	10	0	0	0	20
PB 2018 Total	4	0	0	0	6	10	0	0	0	20
Delta	0	0	0	0	0	0	0	0	0	0

Cost and Funding

Annual Funding By Appropriation

	3600	0 RDT&E Rese	Annual Fu arch, Developme		luation, Air Fo	orce				
		TY \$M								
Fiscal Year	Quantity	End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program			
2011		+					85.2			
2012							46.8			
2013							249.8			
2014	1.22				-		249.0			
2015							95.4			
2016		**					262.7			
2017							278.4			
2018							194.6			
2019			-			24	261.8			
2020			199	1	70		135.7			
2021			144	44	440		20.7			
2022							0.2			
2023							0.2			
Subtotal	4					**	1880.5			

	360	0 RDT&E Rese	Annual Fu arch, Developme	nding nt. Test. and Eva	luation. Air Fo	orce				
		BY 2016 \$M								
Fiscal Year	Quantity	End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program			
2011				45	144	re.	90.5			
2012				**			48.9			
2013			125				256.5			
2014					(66)		252.2			
2015							95.7			
2016							259.7			
2017							270.4			
2018	44	- 14					185.9			
2019			122	3-4	44		245.6			
2020			122		144	**	124.9			
2021		249		722	120		18.7			
2022		**					0.2			
2023	()					77	0.2			
Subtotal	4						1849.4			

		3010 Proc	Annual Fu urement Aircraft		ir Force						
				TY \$M							
Fiscal Year	Quantity	End Item Recurring Flyaway	Recurring Recurring Flyaway Support Progra								
2020	6	278.3			278.3	1.5	279.8				
2021	10	362.5			362.5	27.2	389.7				
2022		79.5	1	1	79.5	27.8	107.3				
2023		81.0	. 44	44	81.0	28.3	109.3				
Subtotal	16	801.3		1.22	801.3	84.8	886.1				

	Annual Funding 3010 Procurement Aircraft Procurement, Air Force							
			BY 2016 \$M					
Fiscal Year	Quantity	End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
2020	6	248.4			248.4	1.3	249.7	
2021	10	317.2			317.2	23.8	341.0	
2022		68.2	199	1.00	68.2	23.8	92.0	
2023		68.1	22	-4	68.1	23.8	91.9	
Subtotal	16	701.9			701.9	72.7	774.6	

	Quantity Informationt Aircraft Procure	
Fiscal Year	Quantity	End Item Recurring Flyaway (Aligned With Quantity) BY 2016 \$M
2020	6	263.2
2021	10	438.7
2022	-	**
2023	44	
Subtotal	16	701.9

Low Rate Initial Production

Item	Initial LRIP Decision	Current Total LRIP
Approval Date	3/24/2016	3/24/2016
Approved Quantity	6	6
Reference	Milestone B ADM	Milestone B ADM
Start Year	2020	2020
End Year	2020	2020

The Current Total LRIP Quantity is more than 10% of the total production quantity due to the B-2 being a small fleet of only 20 aircraft. The need for six kits during LRIP is based on lessons learned and factors experienced during other B-2 development and production programs (i.e., Radar Modernization and Extremely High Frequency).

Foreign Military Sales

None

Nuclear Costs

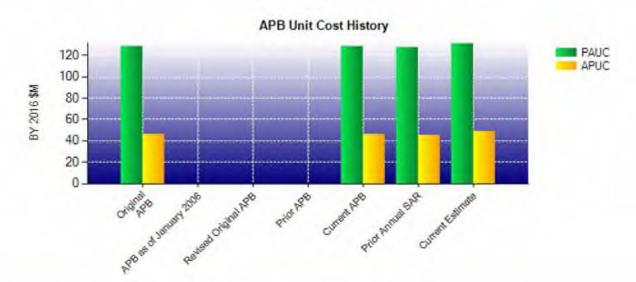
None

Unit Cost

B-2 DMS-M

Current UCR Bas	seline and Current Estimate	(Base-Year Dollars)		
	BY 2016 \$M	BY 2016 \$M		
Item	Current UCR Baseline (May 2016 APB)	Current Estimate (Dec 2017 SAR)	% Change	
Program Acquisition Unit Cost				
Cost	2556.2	2624.0		
Quantity	20	20		
Unit Cost	127.810	131.200	+2.65	
Average Procurement Unit Cost				
Cost	734.3	774.6		
Quantity	16	16		
Unit Cost	45.894	48.412	+5.49	

Original UCR Base	eline and Current Estimate	(Base-Year Dollars)		
	BY 2016 \$M	BY 2016 \$M		
Item	Original UCR Baseline (May 2016 APB)	Current Estimate (Dec 2017 SAR)	% Change	
Program Acquisition Unit Cost				
Cost	2556.2	2624.0		
Quantity	20	20		
Unit Cost	127.810	131.200	+2.65	
Average Procurement Unit Cost				
Cost	734.3	774.6		
Quantity	16	16		
Unit Cost	45.894	48.412	+5.49	



	APB Unit Co	ost History				
Itam	Date	BY 2016	\$M	TY \$M		
Item	Date	PAUC APUC		PAUC	APUC	
Original APB	May 2016	127.810	45.894	134.225	52.394	
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	N/A	N/A	N/A	N/A	N/A	
Current APB	May 2016	127.810	45.894	134.225	52.394	
Prior Annual SAR	Dec 2016	126.875	45.556	133.770	52.056	
Current Estimate	Dec 2017	131.200	48.412	138.330	55.381	

SAR Unit Cost History

С
-
Current Estimate

Initial APUC Development Estimate				Cha	nges				APUC
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	Current Estimate

SAR Baseline History							
Item	SAR Planning Estimate	SAR Development Estimate	SAR Production Estimate	Current Estimate			
Milestone A	N/A	Aug 2011	N/A	Aug 2011			
Milestone B	N/A	Mar 2016	N/A	Mar 2016			
Milestone C	N/A	Dec 2019	N/A	Jun 2020			
IOC	N/A	Dec 2021	N/A	Jun 2022			
Total Cost (TY \$M)	N/A	2684.5	N/A	2766.6			
Total Quantity	N/A	20	N/A	20			
PAUC	N/A	134.225	N/A	138.330			

Cost Variance

	Su	mmary TY \$M		
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Development Estimate)	1846.2	838.3	-	2684.5
Previous Changes				
Economic	+5.6	+0.8		+6.4
Quantity	**		-	
Schedule			39	
Engineering				
Estimating	-9.3	+189.3	+	+180.0
Other		2-		
Support		-195.5		-195.5
Subtotal	-3.7	-5.4	22	-9.1
Current Changes				
Economic	-5.7	-5.3	**	-11.0
Quantity				
Schedule	6-	-		
Engineering				
Estimating	+43.7	+30.0		+73.7
Other		4-	22	4-
Support		+28.5		+28.5
Subtotal	+38.0	+53.2	**	+91.2
Total Changes	+34.3	+47.8	**	+82.1
CE - Cost Variance	1880.5	886.1	-	2766.6
CE - Cost & Funding	1880.5	886.1	**	2766.6

	Summ	nary BY 2016 \$M		
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Development Estimate)	1821.9	734.3	-	2556.2
Previous Changes				
Economic				-
Quantity	**	(-)	22	-
Schedule				
Engineering		/	4	-
Estimating	-13.3	+165.9	***	+152.6
Other			4	-
Support		-171.3		-171.3
Subtotal	-13.3	-5.4		-18.7
Current Changes				
Economic	5			-
Quantity				-
Schedule				-
Engineering			12	
Estimating	+40.8	+21.9	4-	+62.7
Other			22	-
Support	44	+23.8	**	+23.8
Subtotal	+40.8	+45.7	**	+86.5
Total Changes	+27.5	+40.3	+	+67.8
CE - Cost Variance	1849.4	774.6	-	2624.0
CE - Cost & Funding	1849.4	774.6	124	2624.0

Previous Estimate: December 2016

RDT&E	\$N	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-5.7
Adjustment for current and prior escalation. (Estimating)	+2.4	+2.5
Revised estimate due to Below Threshold Reprogramming and Small Business Innovation Research. (Estimating)	-8.8	-9.1
Revised estimate due to realignment of Advanced Procurement to Research, Development, Test, and Evaluation (Estimating)	+44.2	+47.1
Revised estimate to reflect application of new outyear escalation indices. (Estimating)	+3.0	+3.2
RDT&E Subtotal	+40.8	+38.0

Procurement	\$M		
Current Change Explanations	Base Year	Then Year	
Revised escalation indices. (Economic)	N/A	-5.3	
Revised estimate due to realignment of Advanced Procurement to Research, Development, Test, and Evaluation and baseline extension of program. (Estimating)	+17.6	+25.1	
Revised estimate to reflect application of new outyear escalation indices. (Estimating)	+4.3	+4.9	
Increase in Other Support due to baseline extension to program. (Support)	+11.1	+13.3	
Increase in Initial Spares due to baseline extension of program. (Support)	+12.7	+15.2	
Procurement Subtotal	+45.7	+53.2	

Contracts

Contract Identification

Appropriation: RDT&E

Contract Name: FAST II Delivery Order: EMD DMS-M

Contractor: Northrop Grumman Corporation Aerospace Systems

Contractor Location: 3520 E. Avenue M

Palmdale, CA 93550

Contract Number: FA8616-14-D-6060/2

Contract Type: Firm Fixed Price (FFP), Cost Plus Fixed Fee (CPFF)

Award Date: May 24, 2017

Definitization Date:

				Contract Pri	ce		
Initial Cor	ntract Price ((\$M)	Current Co	ntract Price (\$M)	Estimated Price	e At Completion (\$M)
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
741.0	N/A	0	741.0	N/A	0	741.0	741.0

Cost and Schedule Variance Explanations

Cost and Schedule Variance reporting is not required on this (FFP/CPFF) contract.

General Contract Variance Explanation

Schedule variance is not reported for this contract because the program office received approval from USD(AT&L) to make a contract and technical change to the program in May 2017. This delivery order is now a Firm Fixed Price contract type. Cost Plus Fixed Fee portions of the contract that cover items like flight test and over and above costs have not begun to execute yet. Subsequently, the program office directed the contractor to set schedule and performance equal to zero, eliminating all cost and schedule variances.

Deliveries and Expenditures

	Deliveri	es		
Delivered to Date	Planned to Date	Actual to Date	Total Quantity	Percent Delivered
Development	0	0	4	0.00%
Production	0	0	16	0.00%
Total Program Quantity Delivered	0	0	20	0.00%

Expended and Appropriated (TY	\$M)		
Total Acquisition Cost	2766.6	Years Appropriated	8
Expended to Date	1090.2	Percent Years Appropriated	61.54%
Percent Expended	39.41%	Appropriated to Date	1461.9
Total Funding Years	13	Percent Appropriated	52.84%

The above data is current as of February 12, 2018.

Operating and Support Cost

Cost	Estin	nate	Det	ails

Date of Estimate:

Source of Estimate:

Quantity to Sustain:

Unit of Measure:

Service Life per Unit:

Fiscal Years in Service:

B-2 DMS-M O&S costs are not included in the APB or SAR per direction of the MDA. The associated O&S cost is included and tracked at the overall B-2 system level. Per signed ADM, B-2 DMS-M O&S costs are estimated to be less than 1% of the total B-2 fleet O&S costs.

Sustainment Strategy

Antecedent Information

	Т	otal O&S	Cost \$M	
Item	B-2 DMS-I	VI		Michael Commission
Itelli	Current Development APB Objective/Threshold		Current Estimate	No Antecedent (Antecedent)
Base Year	0.0	0.0	0.0	0.0
Then Year	0.0	N/A	0.0	0.0
	O&S Co	st Varianc	ce ce	

Category	BY 2016 \$M	Change Explanations
Prior SAR Total O&S Estimates - Dec 2016 SAR	0.0	
Programmatic/Planning Factors	0.0	
Cost Estimating Methodology	0.0	
Cost Data Update	0.0	
Labor Rate	0.0	
Energy Rate	0.0	
Technical Input	0.0	
Other	0.0	
Total Changes	0.0	
Current Estimate	0.0	

Disposal Estimate Details

Date of Estimate:

Source of Estimate:

Disposal/Demilitarization Total Cost (BY 2016 \$M):