Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Missile Defense Agency

Appropriation/Budget Activity R

0400: Research, Development, Test & Evaluation, Defense-Wide I BA 4:

Advanced Component Development & Prototypes (ACD&P)

R-1 Program Element (Number/Name)

PE 0604879C I Ballistic Missile Defense Sensor Test

Date: May 2017

COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	60.048	83.597	83.250	84.239	-	84.239	65.886	76.218	68.231	56.579	Continuing	Continuing
MT11: BMDS Radars Test	60.048	79.839	78.430	80.837	-	80.837	62.719	72.677	64.937	53.872	Continuing	Continuing
MD40: Program Wide Support	-	3.758	4.820	3.402	-	3.402	3.167	3.541	3.294	2.707	Continuing	Continuing

Program MDAP/MAIS Code: 362

Note

N/A

A. Mission Description and Budget Item Justification

MDA Sensors executes a robust test program that includes flight and ground tests to support both strategic and regional BMDS capabilities against medium- and long-range threats. The Sensors elements of the Ballistic Missile Defense System (BMDS) Integrated Master Test Plan (IMTP) are intended to demonstrate the integrated missile defense capabilities under development to ensure the capabilities delivered to the Warfighter are operationally effective, suitable, and survivable. The Sensors Test Program Element specifically includes the planning, execution, and analysis of flight and ground tests and the associated infrastructure.

The Sensors test program (FY 2016-2018) provides data required for the Technical Capability Declaration for EPAA Phase III Robust Intermediate Range Ballistic Missile (IRBM) Defense, Enhanced Homeland Defense, and Mid-term discrimination improvements. It also supports Operational Test and Evaluation of the regional and strategic BMDS architecture that will be fielded at the end of Calendar Year 2018 (CY 2018).

The Sensors test program (FY 2019-2021) will support Long Range Discrimination Radar (LRDR) integration into BMDS, GMD Redesigned Kill Vehicle (RKV) developmental testing, Mid- and Far-term discrimination improvements, and Operational Test and Evaluation of the theater/regional and strategic BMDS architecture that will be fielded at the end of Calendar Year 2021 (CY 2021).

PE 0604879C: Ballistic Missile Defense Sensor Test

Missile Defense Agency

Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Missile Defense Agency

R-1 Program Element (Number/Name)

Appropriation/Budget Activity

0400: Research, Development, Test & Evaluation, Defense-Wide I BA 4:

PE 0604879C I Ballistic Missile Defense Sensor Test

Date: May 2017

Advanced Component Development & Prototypes (ACD&P)

B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	83.597	83.250	87.346	-	87.346
Current President's Budget	83.597	83.250	84.239	-	84.239
Total Adjustments	0.000	0.000	-3.107	-	-3.107
 Congressional General Reductions 	0.000	0.000			
 Congressional Directed Reductions 	0.000	0.000			
 Congressional Rescissions 	0.000	0.000			
Congressional Adds	0.000	0.000			
 Congressional Directed Transfers 	0.000	0.000			
Reprogrammings	0.000	0.000			
SBIR/STTR Transfer	0.000	0.000			
 Other Adjustment 	0.000	0.000	-3.107	-	-3.107

Change Summary Explanation

The decrease in FY2018 from PB17 to PB18 reflects a schedule change to align with the Integrated Master Test Plan (IMTP).

Exhibit R-2A, RDT&E Project Ju	stification:	FY 2018 M	lissile Defe	nse Agency	/					Date: May	2017	
Appropriation/Budget Activity 0400 / 4						79C I Ballist	t (Number/ ic Missile D	,	Project (N MT11 / BM		,	
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
MT11: BMDS Radars Test	60.048	79.839	78.430	80.837	-	80.837	62.719	72.677	64.937	53.872	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

N/A

A. Mission Description and Budget Item Justification

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

This project provides activities for planning, analysis and execution of BMDS flight test events, including pre- and post-test ground testing such as Digital and Hardwarein-the-Loop (HWIL) Pre-Mission Tests (PMTs) and Post-Flight Reconstruction (PFR). Sensor's Test provides planning, analysis and execution for BMDS system level ground tests identified in the Integrated Master Test Plan (IMTP). Test infrastructure funding provides for HWIL labs and program management required to operate and maintain a flight and ground test capability.

	0.0	0	0.0
Title: Flight Test Execution	34.297	32.834	35.634
Articles:	-	-	-
Description: Flight Test Execution includes test planning, pre-flight analysis, transportation of radars, test execution, and post-flight analysis for Sensors participation in BMDS Flight Tests in accordance with the BMDS Integrated Master Test Plan (IMTP). Specific and/or unique accomplishments to each FY are as follows:			
FY 2016 Accomplishments:			
-Completed Sensors participation in FTO-03 E2a, GM CTV-02+, and FTX-21.			
-Continued planning Sensors participation in FTG-15.			
-Continued planning Sensors participation in FTT-18 and FTT-15.			
FY 2017 Plans:			
SEE ABOVE			
FY 2018 Plans:			
SEE ABOVE			
Title: Ground Test Execution	23.441	27.686	28.500
Articles:			
711.00.007	1	()	(

PE 0604879C: Ballistic Missile Defense Sensor Test Missile Defense Agency

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R-1 Line #109

FY 2016 | FY 2017 | FY 2018

	UNCLASSIFIED				
Exhibit R-2A, RDT&E Project Justification: FY 2018 Missile Defense Ag	gency		Date: N	lay 2017	
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604879C I Ballistic Missile Defense Sensor Test		t (Number/N I BMDS Rad		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantit	ties in Each)		FY 2016	FY 2017	FY 2018
Description: Ground Test Execution includes event planning, asset integral Sensors participation in BMDS Ground Tests in accordance with the BMD accomplishments to each FY are as follows:		nique			
FY 2016 Accomplishments: -Completed Sensors participation in the GT-06 campaign, GTI-ISR(16), ar-Continued planning Sensors participation in the GT-07a campaign	nd GT-07a Early Integration Event				
FY 2017 Plans: SEE ABOVE					
FY 2018 Plans: SEE ABOVE					
Title: Test Resources	A	rticles:	22.101 -	17.910 -	16.703 -
Description: Test Resources efforts include configuration and maintenant in Ground Test execution (BMDS and element developmental testing) and Test Resources also provide support for evolving Objective Stimulation From the BMDS HWIL Ground Test Execution and Flight Test Execution. Specifollows:	d in BMDS Flight Test Execution Pre-Mission Testi ramework (OSF) (software upgrades) integration in	ng. nto			
FY 2016 Accomplishments: -Completed support for Single Stimulation Framework (SSF) (software upgexecution -Supported cyber security initiatives for the BMDS Missile Defense Agence	, ,	est			
FY 2017 Plans: SEE ABOVE					
FY 2018 Plans: SEE ABOVE					
	Accomplishments/Planned Programs Sul	ototals	79.839	78.430	80.837

PE 0604879C: *Ballistic Missile Defense Sensor Test* Missile Defense Agency

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Exhibit R-2A, RDT&E Project Justif	ication: FY	2018 Missile	Defense Ag	gency					Date: Ma	y 2017	
Appropriation/Budget Activity 0400 / 4					04879C <i>I Ba</i>	nent (Numb allistic Missile	,	,	Number/Na MDS Radar	,	
C. Other Program Funding Summa	ry (\$ in Milli	ons)		'							
			FY 2018	FY 2018	FY 2018					Cost To	
<u>Line Item</u>	FY 2016	FY 2017	Base	OCO	<u>Total</u>	FY 2019	FY 2020	FY 2021	FY 2022	Complete	Total Cos
 0603179C: Advanced C4ISR 	9.661	3.626	0.000	-	0.000	0.000	0.000	0.000	0.000	0	13.28
 0603884C: Ballistic 	233.020	230.077	247.345	-	247.345	247.643	362.850	401.267	497.503	Continuing	Continuin
Missile Defense Sensors											
 0603896C: Ballistic Missile 	425.996	456.267	430.115	-	430.115	461.275	501.956	496.411	514.139	Continuing	Continuin
Defense Command and											
Control, Battle Management											
& Communication											
 0603898C: Ballistic Missile 	47.566	47.776	48.954	-	48.954	49.524	52.628	53.573	54.636	Continuing	Continuin
Defense Joint Warfighter Support											
 0603904C: Missile 	46.191	54.750	53.265	-	53.265	54.505	57.588	58.574	59.738	Continuing	Continuin
Defense Integration and											
Operations Center (MDIOC)											
 0603907C: Sea Based 	81.265	93.287	130.695	-	130.695	114.545	126.250	97.666	97.659	Continuing	Continuin
X-Band Radar (SBX)											
 0603914C: Ballistic 	290.267	293.441	305.791	-	305.791	295.042	351.626	336.137	334.678	Continuing	Continuin
Missile Defense Test											
 0604873C: Long Range 	132.278	173.162	357.659	-	357.659	135.187	52.218	50.843	119.803	Continuing	Continuin
Discrimination Radar (LRDR)											
 13999903: Planning and 	0.000	8.233	8.397	-	8.397	8.525	8.822	0.000	0.000	Continuing	Continuin
Design, Defense Wide											
 D1400634: Upgrade Early Warning 	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0	
Radar (UEWR), Clear AFS, AK											
Remarks											

D. Acquisition Strategy

Test & Evaluation projects use multiple existing development contracts depending on the system(s) involved in the testing.

E. Performance Metrics

N/A

PE 0604879C: Ballistic Missile Defense Sensor Test Missile Defense Agency

R-1 Line #109

Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Missile Defense Agency

Appropriation/Budget Activity

0400 / 4

R-1 Program Element (Number/Name)
PE 0604879C I Ballistic Missile Defense
Sensor Test

Project (Number/Name)
MT11 / BMDS Radars Test

Date: May 2017

Product Developme	nt (\$ in M	illions)		FY	2016	FY 2	2017		2018 ise		2018 CO	FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
		Subtotal	-	-		-		_		-		-	-	-	_

Remarks

N/A

Test and Evaluation	(\$ in Milli	ons)		FY 2	2016	FY :	2017		2018 Ise	FY 2	2018 CO	FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Flight Test Execution - AN/ TPY-2 & SBX FT	SS/CPFF	Raytheon : MA	22.332	22.811		12.260	Mar 2017	21.943	Mar 2018	-		21.943	Continuing	Continuing	Continuing
Flight Test Execution - FT Security, Site Activation & Deployments	Various	Various : HI, CO, AL	3.356	11.486		10.202	Jan 2017	12.507	Jan 2018	-		12.507	Continuing	Continuing	Continuing
Flight Test Execution - LRDR FT	SS/TBD	Lockheed Martin : NJ	0.000	0.000		0.000		0.032	Nov 2017	-		0.032	Continuing	Continuing	Continuing
Flight Test Execution - UEWR/CD FT	C/FPIF	deciBel : AL	0.000	0.000		10.372	Nov 2016	1.152	Nov 2017	-		1.152	Continuing	Continuing	Continuing
Ground Test Execution - AN/TPY-2 & SBX GT	SS/CPFF	Raytheon : MA	15.574	19.117	Nov 2015	13.714	Feb 2017	20.518	Feb 2018	-		20.518	Continuing	Continuing	Continuing
Ground Test Execution - UEWR/CD GT	C/FPIF	deciBel : AL	2.893	4.324	Jan 2016	13.972	Jan 2017	7.982	Jan 2018	-		7.982	Continuing	Continuing	Continuing
Test Resources - AN/TPY-2 & SBX SSF Integration & Infrastructure, Sys Test Lab	SS/CPFF	Raytheon : MA	11.119	16.315	Dec 2015	14.121	Dec 2016	12.770	Dec 2017	-		12.770	Continuing	Continuing	Continuing
Test Resources - Cyber Win10 Implementation - MDDC Lab Analysis Infrastructure	C/IDIQ	Analytical Services, Inc. : AL	0.000	0.825	Jun 2016	0.000		0.000		-		0.000	Continuing	Continuing	Continuing

PE 0604879C: Ballistic Missile Defense Sensor Test Missile Defense Agency UNCLASSIFIED
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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Missile Defense Agency

Appropriation/Budget Activity
0400 / 4

R-1 Program Element (Number/Name)
PE 0604879C / Ballistic Missile Defense
MT11 / BMDS Radars Test

Sensor Test

FY 2018 FY 2018 FY 2018 Test and Evaluation (\$ in Millions) **FY 2016** FY 2017 Base oco Total Contract Target Method Performing Prior Award Award Award Award **Cost To** Total Value of **Cost Category Item** & Type **Activity & Location** Years Cost Date Cost Date Cost Date Cost Date Complete Cost Contract Cost Test Resources -Northrop Grumman Cybersecurity - BGTC and C/IDIQ Space & Mission 0.000 1.600 Jun 2016 0.000 0.000 0.000 Continuing Continuing Continuing SBIRS System: CO Test Resources -Cybersecurity - Tactical Communication SPAWAR: CA 0.000 Continuing Continuing Continuing MIPR 0.000 0.190 Jun 2016 0.000 0.000 **Environment Segment** (TCES) Test Resources - UEWR SSF Integration & C/FPIF deciBel: AL 4.774 3.171 Nov 2015 3.789 Nov 2016 3.933 Nov 2017 3.933 Continuing Continuing Continuing Infrastructure, Sys Test Lab Subtotal 60.048 79.839 78.430 80.837 80.837

Remarks

N/A

Management Service	es (\$ in M	illions)		FY 2	2016	FY 2	2017		2018 ase		2018 CO	FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	-	-		-		-		-		-	-	-	-

Remarks

N/A

	Prior Years	FY 2	016	FY 2	2017	FY 2 Ba	FY 2	 FY 2018 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	60.048	79.839		78.430		80.837	-	80.837	-	-	-

Remarks

N/A

PE 0604879C: Ballistic Missile Defense Sensor Test Missile Defense Agency

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Exhibit R-4, RDT&E Schedul	e Profile: FY 2018 Missile Defens	e Agency										_		D	ate: M	ay 20	017			
Appropriation/Budget Activit 0400 / 4	ty	PE	Progra 060487 sor Tes	79C											nber/N S Rada					
Significant Event Complete ▲ Significant Event Planned △	Milestone Decision Complete ★ Milestone Decision Planned ☆	Element Test Comp Element Test Plann									plete ned				nplete A					_
			FY	2016	6	FY 20			Y 20			′ 2019		FY	2020	F	Y 2021		FY 20	J2:
GM CTV-02 Plus (GM, Intercept Flight	t Test)		A																	
FTX-21 (AEG IS SBT, Target Only Fli	ght Test)			*																
GTI-06 Part 2 (BMDS Ground Test)				*																
GTI-ISR (16) (BMDS Ground Test)				*																
GTD-06 Part 2 (BMDS Ground Test)					+															
FTG-15 (GM, Intercept Flight Test)						4	Δ .													
GTI-07a (BMDS Ground Test)						<	>													
GTD-07a (BMDS Ground Test)																				
FTM-29 (AEGIS 5.1, Intercept Flight T	rest)							Δ												
FTX-35 (TH, Target Only Flight Test)									Δ											
FTX-36 (TH, Patriot Target Only Flight	t Test)								Δ											
GTI-07b (E/C) (BMDS Ground Test)								-	♦ <	>										
FT0-03 E1 (OTA, Intercept Flight Test)									Δ										
FTG-11 (IOT&E) (GM, Intercept Flight	Test)									Δ										
GTD-07b (E/C) (BMDS Ground Test)										♦	♦									
GTI-07b (N/P) (BMDS Ground Test)											\$									
GTI-ISR (18) (BMDS Ground Test)											Δ									
FT0-03 E2 (OTA, Intercept Flight Test)																			
GTD-07b (N/P) (BMDS Ground Test)												♦ <	>							
FTX-23 (AEGIS 5.1, Target Only Fligh	t Test)											4	7							
FTX-27 (SN, Target Only Flight Test)													7							
GTI-08 (E/C) (BMDS Ground Test)												<	> <							
GTI-08 (N/P)(BMDS Ground Test)							\perp								♦					_
FTT-19 (TH, Intercept Flight Test)															Δ					

Exhibit R-4, RDT&E Schedule P Appropriation/Budget Activity 0400 / 4	Tome. 1 1 2010 Missile Deletis	R-1 Pr)487	9C /	ent (Num listic Missi				Date Numbe MDS R	r/Na	ame))		
Significant Event Complete ▲ Significant Event Planned △	Milestone Decision Complete ★ Milestone Decision Planned ☆	Element Test Complete Element Test Planned	♦			l Test Com l Test Plani		•	Comple Planne					
			FY	2016	FY 2017	FY 2018	F	Y 2019	FY 202	20	F١	/ 202	1	FY 2022
GTD-08 (E/C) (BMDS Ground Test)										♦				
GTD-08 (N/P) (BMDS Ground Test)											♦			
GT-21 Sprint 1 (BMDS Ground Test)											♦			
FTG-17 (IOT&E) (GM, Intercept Flight Te	st)										Δ			
GT-21 Sprint 2 (BMDS Ground Test)											<	>		
GT-21 Sprint 3 (BMDS Ground Test)											<	> <		
FTX-26 (SN, Target Only Flight Test)												Δ		
GT-21 Sprint 4 (BMDS Ground Test)														
GTI-ISR (21) (BMDS Ground Test)														
FTT-21 (TH, Intercept Flight Test)													Δ	
GT-21 Sprint 5 (BMDS Ground Test)													♦	
GT-21 Sprint 6 (BMDS Ground Test)													\$	
FTG-18 (GM, Intercept Flight Test)													Δ	
GT-22 Sprint 1 (BMDS Ground Test)														*
GT-22 Sprint 2 (BMDS Ground Test)														♦
GT-22 Sprint 3 (BMDS Ground Test)														♦
FTM-35 (AEGIS 5.1, Intercept Flight Test))													Δ
FTX-28 E1 (TH, Target Only Flight Test)														Δ
FTX-28 E2 (TH, Target Only Flight Test)														Δ
FTX-28 E3 (TH, Target Only Flight Test)														Δ
GT-22 Sprint 4 (BMDS Ground Test)														♦
GTD-22 (E/C) (BMDS Ground Test)	·													

Exhibit R-4A, RDT&E Schedule Details: FY 2018 Missile Defense Agency			Date: May 2017
		- , (umber/Name) IDS Radars Test
	Sensor Test		

Schedule Details

	Sta	Start			
Events	Quarter	Year	Quarter	Year	
GM CTV-02 Plus (GM, Intercept Flight Test)	2	2016	2	2016	
FTX-21 (AEG IS SBT, Target Only Flight Test)	3	2016	3	2016	
GTI-06 Part 2 (BMDS Ground Test)	3	2016	3	2016	
GTI-ISR (16) (BMDS Ground Test)	3	2016	3	2016	
GTD-06 Part 2 (BMDS Ground Test)	4	2016	4	2016	
FTG-15 (GM, Intercept Flight Test)	3	2017	3	2017	
GTI-07a (BMDS Ground Test)	3	2017	4	2017	
GTD-07a (BMDS Ground Test)	4	2017	4	2017	
FTM-29 (AEGIS 5.1, Intercept Flight Test)	1	2018	1	2018	
FTX-35 (TH, Target Only Flight Test)	2	2018	2	2018	
FTX-36 (TH, Patriot Target Only Flight Test)	2	2018	2	2018	
GTI-07b (E/C) (BMDS Ground Test)	2	2018	3	2018	
FT0-03 E1 (OTA, Intercept Flight Test)	3	2018	3	2018	
FTG-11 (IOT&E) (GM, Intercept Flight Test)	4	2018	4	2018	
GTD-07b (E/C) (BMDS Ground Test)	4	2018	1	2019	
GTI-07b (N/P) (BMDS Ground Test)	1	2019	1	2019	
GTI-ISR (18) (BMDS Ground Test)	1	2019	1	2019	
FT0-03 E2 (OTA, Intercept Flight Test)	2	2019	2	2019	
GTD-07b (N/P) (BMDS Ground Test)	3	2019	4	2019	
FTX-23 (AEGIS 5.1, Target Only Flight Test)	4	2019	4	2019	
FTX-27 (SN, Target Only Flight Test)	4	2019	4	2019	
GTI-08 (E/C) (BMDS Ground Test)	4	2019	1	2020	

Exhibit R-4A, RDT&E Schedule Details: FY 2018 Missile Defense Agency

Appropriation/Budget Activity
0400 / 4

R-1 Program Element (Number/Name)
PE 0604879C / Ballistic Missile Defense
Sensor Test

Date: May 2017

Project (Number/Name)
MT11 / BMDS Radars Test

	St	Start		nd
Events	Quarter	Year	Quarter	Year
GTI-08 (N/P)(BMDS Ground Test)	2	2020	3	2020
FTT-19 (TH, Intercept Flight Test)	3	2020	3	2020
GTD-08 (E/C) (BMDS Ground Test)	3	2020	4	2020
GTD-08 (N/P) (BMDS Ground Test)	1	2021	1	2021
GT-21 Sprint 1 (BMDS Ground Test)	1	2021	1	2021
FTG-17 (IOT&E) (GM, Intercept Flight Test)	1	2021	1	2021
GT-21 Sprint 2 (BMDS Ground Test)	2	2021	2	2021
GT-21 Sprint 3 (BMDS Ground Test)	2	2021	3	2021
FTX-26 (SN, Target Only Flight Test)	3	2021	3	2021
GT-21 Sprint 4 (BMDS Ground Test)	3	2021	3	2021
GTI-ISR (21) (BMDS Ground Test)	3	2021	3	2021
FTT-21 (TH, Intercept Flight Test)	4	2021	4	2021
GT-21 Sprint 5 (BMDS Ground Test)	4	2021	4	2021
GT-21 Sprint 6 (BMDS Ground Test)	4	2021	4	2021
FTG-18 (GM, Intercept Flight Test)	1	2022	1	2022
GT-22 Sprint 1 (BMDS Ground Test)	1	2022	1	2022
GT-22 Sprint 2 (BMDS Ground Test)	2	2022	2	2022
GT-22 Sprint 3 (BMDS Ground Test)	2	2022	2	2022
FTM-35 (AEGIS 5.1, Intercept Flight Test)	3	2022	3	2022
FTX-28 E1 (TH, Target Only Flight Test)	3	2022	3	2022
FTX-28 E2 (TH, Target Only Flight Test)	3	2022	3	2022
FTX-28 E3 (TH, Target Only Flight Test)	3	2022	3	2022
GT-22 Sprint 4 (BMDS Ground Test)	3	2022	3	2022
GTD-22 (E/C) (BMDS Ground Test)	4	2022	4	2022

Exhibit R-2A, RDT&E Project Ju	Exhibit R-2A, RDT&E Project Justification: FY 2018 Missile Defense Agency										Date: May 2017		
Appropriation/Budget Activity 0400 / 4 R-1 Program Element (Number/N PE 0604879C / Ballistic Missile De Sensor Test					,	Project (N MD40 / Pro		,					
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost	
MD40: Program Wide Support	-	3.758	4.820	3.402	-	3.402	3.167	3.541	3.294	2.707	Continuing	Continuing	
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-			

Note

Beginning in FY 2016, Program Wide Support (PWS) was proportionately allocated to Ballistic Missile Defense Sensor Test. In FY 2017 and FY 2018 Program Wide Support reflects proportional changes as a result of budget changes to the Ballistic Missile Defense Sensor Test Program.

A. Mission Description and Budget Item Justification

PWS contains non-headquarters management costs in support of MDA functions and activities across the entire BMDS. It Includes Government Civilians, and Contract Support Services. This provides integrity and oversight of the BMDS as well as supports MDA in the development and evaluation of technologies that will respond to the changing threat. Additionally, PWS includes Global Deployment personnel and support performing deployment site preparation and activation and, provides facility capabilities for MDA Executing Agent locations. Other MDA wide costs includes: physical and technical security; civilian drug testing; audit readiness; the Science, Technology, Engineering, and Mathematics (STEM) program; legal services and settlements; travel and agency training; office, equipment, vehicle, and warehouse leases; utilities and base operations; data and unified communications support; supplies and maintenance; materiel and readiness and central property management of equipment; and similar operating expenses. PWS is allocated on a pro-rata basis and therefore, fluctuates by year based on the adjusted RDT&E profile (which excludes: 0305103C Cyber Security Initiative, 0603274C Special Programs, 0603913C Israeli Cooperative Program and 0901598C Management Headquarters).

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2016	FY 2017	FY 2018
Title: Program Wide Support	3.758	4.820	3.402
Articles	-	-	-
Description: N/A			
FY 2016 Accomplishments: - Beginning in FY 2016, Program Wide Support was redistributed across RDT&E Program Elements with a proportional allocation to Ballistic Missile Defense Sensor Test			
FY 2017 Plans: N/A			
FY 2018 Plans: N/A			
Accomplishments/Planned Programs Subtotal	s 3.758	4.820	3.402

PE 0604879C: Ballistic Missile Defense Sensor Test Missile Defense Agency

Exhibit R-2A, RDT&E Project Justification: FY 2018 Missile Defense Agenc	Exhibit R-2A, RDT&E Project Justification: FY 2018 Missile Defense Agency				
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604879C I Ballistic Missile Defense Sensor Test	Project (Number/Name) MD40 / Program Wide Support			
C. Other Program Funding Summary (\$ in Millions) N/A					
Remarks					
D. Acquisition Strategy N/A					
E. Performance Metrics N/A					

Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Missile Defense Agency

Appropriation/Budget Activity

0400 / 4

R-1 Program Element (Number/Name)

PE 0604879C I Ballistic Missile Defense Sensor Test **Project (Number/Name)**

MD40 I Program Wide Support

Date: May 2017

Support (\$ in Million	ıs)			FY 2	2016	FY 2	2017		2018 ise	FY 2		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Program Wide Support - Agency Operations Management	Allot	Various : Multi: AL, VA	0.000	0.000		0.096	Jul 2017	0.068	Jul 2018	-		0.068	Continuing	Continuing	Continuing
Program Wide Support - Agency Operations and Support Services (Reqn)	MIPR	Various : Multi: AL, VA	0.000	3.758		4.724	Aug 2017	3.334	Aug 2018	-		3.334	Continuing	Continuing	Continuing
		Subtotal	0.000	3.758		4.820		3.402		-		3.402	-	-	-

Remarks

N/A

											Target
	Prior				FY 2018	FY 2	2018	FY 2018	Cost To	Total	Value of
	Years	FY 2	2016 FY 2	2017	Base	00	co	Total	Complete	Cost	Contract
Project Cost 1	otals 0.000	3.758	4.820		3.402	-		3.402	-	-	-

Remarks

N/A

Exhibit R-4, RDT&E Schedule Pr	ofile: FY 2018 Missile Defen	se Agency	,					Date: Ma	ay 2017		
Appropriation/Budget Activity 0400 / 4			` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `						Number/Name) Program Wide Support		
	Milestone Decision Complete ★ Milestone Decision Planned ☆	Element Test Element Test		• •		Level Test Comple Level Test Planne		Complete A Planned Act			
				FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	
MD40 Program-Wide Support			♦	> \$ \$ \$	$ \diamondsuit \diamondsuit \diamondsuit \diamondsuit$	$ \diamondsuit \diamondsuit \diamondsuit \diamondsuit \diamondsuit $	 	$ \diamondsuit \diamondsuit \diamondsuit \diamondsuit $	$ \diamond \diamond \diamond \diamond$	$ \diamondsuit \diamondsuit \diamondsuit <$	

Exhibit R-4A, RDT&E Schedule Details: FY 2018 Missile Defense Agency			Date: May 2017
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604879C I Ballistic Missile Defense Sensor Test	, ,	umber/Name) ogram Wide Support

Schedule Details

	St	art	End		
Events	Quarter	Year	Quarter	Year	
MD40 Program-Wide Support	1	2016	4	2022	