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

Appropriation/Budget Activity

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

Advanced Component Development & Prototypes (ACD&P)

R-1 Program Element (Number/Name)

PE 0603915C I Ballistic Missile Defense Targets

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	1,744.951	517.589	563.576	410.425	-	410.425	373.203	407.909	405.458	427.508	Continuing	Continuing
MC05: Cyber Operations	-	0.065	0.000	0.251	-	0.251	0.583	1.072	1.088	1.389	0	4.448
MT05: BMDS Targets Program	1,683.767	503.325	539.837	391.957	-	391.957	354.629	388.179	385.097	405.953	Continuing	Continuing
MD40: Program Wide Support	61.184	14.199	23.739	18.217	-	18.217	17.991	18.658	19.273	20.166	Continuing	Continuing

Program MDAP/MAIS Code: 362

Note

The decrease in FY2018 reflects re-phasing of funding for events in the BMDS Integrated Master Test Plan and includes reduced contract spending for Mission Support Services in accordance with Department Service Requirement Review Board reductions through increased competition.

A. Mission Description and Budget Item Justification

The Ballistic Missile Defense System (BMDS) Targets Program provides centrally managed targets and countermeasures development and procurement for a cost effective, integrated system-level approach to BMDS testing. The Targets Program has realized past and future savings by centralized competition and management of targets and countermeasures using efficient acquisition strategies and lot buys resulting in economies of scale. Based on engineering assessments of threat intelligence data, the BMDS Targets Program develops, builds, and supports the launch of Short Range Ballistic Missile (SRBM: Less than 1000 Kilometer range) targets, Medium Range Ballistic Missile (MRBM: 1000-3000 Kilometer Range) targets, Intermediate Range Ballistic Missile (IRBM: 3000-5500 Kilometer Range) targets, Intermediate Range Ballistic Missile (IRBM: 3000-5500 Kilometer Range) targets, Intercontinental Ballistic Missile (ICBM: Greater than 5500 Kilometer range) targets, and Multi-Class Components to test, verify, and validate the performance of the BMDS against threats. MDA's BMDS Targets Program provides an economical and reliable inventory of targets which are representative of feasible future threats and support demonstration of the capability of the evolving layered missile defense system in a simultaneous test and operations threat environment.

B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	527.563	563.576	471.059	-	471.059
Current President's Budget	517.589	563.576	410.425	-	410.425
Total Adjustments	-9.974	0.000	-60.634	-	-60.634
 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 	-9.974	0.000			
SBIR/STTR Transfer	0.000	0.000			
Other Adjustment	0.000	0.000	-60.634	-	-60.634

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

UNCLASSIFIED
Page 1 of 42

•		
Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Missile Defense	Agency	Date: May 2017
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0603915C / Ballistic Missile Defense Targe	ets
Change Summary Explanation The decrease in FY2018 from PB17 to PB18 reflects re-phasing of frequency spending for Mission Support Services in accordance with Department of the PB18 reflects re-phasing of frequency spending for Mission Support Services in accordance with Department of the PB18 reflects re-phasing of frequency spending for Mission Support Services in accordance with Department of the PB18 reflects re-phasing of frequency spending for Mission Support Services in accordance with Department of the PB18 reflects re-phasing of frequency spending for Mission Support Services in accordance with Department of the PB18 reflects re-phasing of frequency spending for Mission Support Services in accordance with Department of the PB18 reflects re-phasing of frequency spending fre		

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							it (Number/ ic Missile D		Project (Number/Name) MC05 / Cyber Operations				
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 FY 2018					Cost To Complete	Total Cost	
MC05: Cyber Operations	-	0.065	0.000	0.251	-	0.251	0.583	1.072	1.088	1.389	0	4.448	
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-			

Note

Project MC05 is the Defensive Cyber Operations Project established in this Program Element (PE) during PB 2018. Funds were previously reported in Project MT05 of this PE.

A. Mission Description and Budget Item Justification

The funds in this project sustain Missile Defense Agency DoD Information Assurance Certification and Accreditation Program (DIACAP), Risk Management Framework Standards, Computer Network Defense Service Provider and Controls Validation Testing activities; analysis of validation results; risk assessments and reviews of proposed Program Manager/Information Assurance Manager (PM/IAM) Plans of Action and Milestones (POA&Ms) for MDA Ballistic Missile Defense Test program. It maintains the Certification and Accreditation (C&A) data repository, capturing the DIACAP documentation (artifacts, validation results, and Information Assurance Risk Assessment results, and Designated Approving Authority (DAA) accreditation decisions) and POA&M on all MDA information systems. This project supports the monitoring and tracking of Cybersecurity mitigations detailed in Information Technology security POA&Ms. Activities include preparation of C&A documentation and accreditation recommendations to the MDA Senior Information Assurance Officer/Certification Authority (CA) and DAA. Independent Verification and Validation (IV&V) team actions ensure the availability, integrity, authentication, confidentiality and non-repudiation of the MDA mission, test and administrative systems. Activities in the Project are necessary to comply with the Federal Information Security Management Act (FISMA).

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2016	FY 2017	FY 2018
Title: Network / System Certification and Accreditation (C&A)	0.065	0.000	0.251
Articles:	-	-	-
Description: The Network/Systems Certification and Accreditation project sustains the MDA DoD Information Assurance Certification and Accreditation Program (DIACAP) and Controls Validation Testing (CVT) activities, analysis of validation results, risk assessments and reviews of proposed Program Manager/Information Assurance Manager (PM/IAM) Plans of Action and Milestones (POA&Ms) for MDA Command and Control Battle Management and Communications (C2BMC) mission systems. It maintains the Certification and Accreditation (C&A) data repository, capturing the DIACAP documentation (artifacts, validation results, and Information Assurance Risk Assessment results, and Designated Approving Authority [DAA] accreditation decisions) and POA&M on all MDA information systems.			
FY 2016 Accomplishments: - Conducted cyber security and information assurance engineering and architecture planning for Targets technology systems - Planned and tested the information assurance controls for Targets systems			

PE 0603915C: Ballistic Missile Defense Targets Missile Defense Agency

Exhibit R-2A, RDT&E Project Justification: FY 2018 Missil	hibit R-2A, RDT&E Project Justification: FY 2018 Missile Defense Agency						
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603915C / Ballistic Missile Defense Targets Project (Number/Name) MC05 / Cyber Operations						
B. Accomplishments/Planned Programs (\$ in Millions, Ar - Developed Technology Maturation Initiatives DoD Informati and accreditation packages	rticle Quantities in Each) ion Assurance Certification and Accreditation Program certificat	ion	FY 2016	FY 2017	FY 2018		
FY 2017 Plans: N/A							

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

FY 2018 Plans:

D. Acquisition Strategy

See FY 2016 plans above.

N/A

E. Performance Metrics

N/A

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

UNCLASSIFIED

Page 4 of 42 R-1 Line #90

Accomplishments/Planned Programs Subtotals

0.065

0.000

0.251

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 0603915C / Ballistic Missile Defense

Targets

Project (Number/Name)

Date: May 2017

MC05 I Cyber Operations

Test and Evaluation	Test and Evaluation (\$ in Millions)			FY 2016 FY		FY 2	-		2018 ise	FY 2018 OCO		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
Network / System Certification and Accreditation (C&A) - Information Assurance 1	MIPR	Missile Defense Agency : Huntsville, AL	0.000	0.038	Oct 2015	0.000		0.121	Nov 2017	-		0.121	Continuing	Continuing	Continuing
Network / System Certification and Accreditation (C&A) - Information Assurance 2	C/IDIQ	MiDAESS/TEAMS : Various	0.000	0.027	Nov 2015	0.000		0.130	Nov 2017	-		0.130	Continuing	Continuing	Continuing
		Subtotal	0.000	0.065		0.000		0.251		-		0.251	-	-	-

Remarks

N/A

	Prior Years	FY 2016	FY 2	2017	FY 2 Ba	FY 2	2018 CO	FY 2018 Total	Cost To	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.065	0.000		0.251	-		0.251	-	-	-

Remarks

N/A

		UNC	CLAS	SIFIED						
Exhibit R-4, RDT&E Schedule	Profile: FY 2018 Missile Defens	se Agency		,	,			Date: M	ay 2017	
Appropriation/Budget Activity 0400 / 4			rogram Ele 03915C / E	•	lumber/Name) /ber Operations					
Significant Event Complete ▲ Significant Event Planned △	Milestone Decision Complete ★ Milestone Decision Planned ☆	Element Test (Element Test F			•	Level Test Comp Level Test Plann		Complete A		
				FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
MC05 Cyber Activities				$\Diamond \Diamond \Diamond \Diamond$	\Diamond \Diamond \Diamond	$ \diamond \diamond \diamond \diamond $	\diamond \diamond \diamond	\Diamond \Diamond \Diamond	$ \diamondsuit \diamondsuit \diamondsuit \diamondsuit$	\Diamond \Diamond \Diamond

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 0603915C I Ballistic Missile Defense Targets	umber/Name) ber Operations

Schedule Details

	St	art	End		
Events	Quarter	Year	Quarter	Year	
MC05 Cyber Activities	1	2016	4	2022	

Exhibit R-2A, RDT&E Project Ju	xhibit R-2A, RDT&E Project Justification: FY 2018 Missile Defense Agency									Date: May 2017			
Appropriation/Budget Activity 0400 / 4					R-1 Program Element (Number/Name) PE 0603915C I Ballistic Missile Defense Targets				Project (Number/Name) MT05 / BMDS Targets Program				
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	
MT05: BMDS Targets Program	1,683.767	503.325	539.837	391.957	-	391.957	354.629	388.179	385.097	405.953	Continuing	Continuing	
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-			

Note

The decrease in FY2018 from PB17 to PB18 reflects re-phasing of funding for events in the BMDS Integrated Master Test Plan and includes reduced contract spending for Mission Support Services in accordance with Department Service Requirement Review Board reductions through increased competition.

A. Mission Description and Budget Item Justification

The mission of the MDA BMDS Targets program is to provide an economical and reliable inventory of targets that are representative of feasible future threats. These targets enable demonstration of the evolving layered missile defense system capability in operationally realistic scenarios. The BMDS Targets Program develops and acquires three target types across four target classes. The classes include: Short Range Ballistic Missiles (SRBM), Medium Range Ballistic Missiles (MRBM), Intermediate Range Ballistic Missiles (IRBM), and Intercontinental Ballistic Missiles (ICBM). The target types (Type 1-3) designate the complexity of the target within its class. Type-1 targets are simple baseline configurations. Type-2 targets have increased capability or complexity. Type-3 targets have unique configurations.

The BMDS Targets Program develops and provides Modified Ballistic Re-Entry Vehicles (MBRV) and Countermeasures that can be used across the spectrum of target types and classes. The BMDS Targets Program provides target digital models that enable MDA weapon system program offices to simulate end to end sensor and interceptor performance during pre-mission analysis. The BMDS Targets Program also provides maintenance, aging surveillance, refurbishment, and routine testing of government furnished equipment boosters and target components.

The BMDS Targets Program carefully plans the year of execution to assure the best use of appropriated funds. However, the BMDS Targets Program must be flexible in its execution of the program in order to respond to emerging real world threats or changes in the intelligence community estimates of when a threat will be deployed. The Targets Program must also work with BMDS systems engineers on a continuing basis to align the targets program to the BMDS capabilities as reflected in MDA's Integrated Master Test Plan (IMTP). The BMDS Targets Program makes every effort to reduce instability in contracts, production base and budget while managing in this dynamic work environment.

The BMDS Targets Program develops and builds targets and countermeasures at multiple locations including: Courtland, AL; Orlando, FL; Huntsville, AL; and Chandler, AZ. Storage and maintenance facilities are also located throughout the country including: Huntsville, AL; White Sands, NM; Ogden, UT; Tooele, UT; Cape Canaveral Air Force Station, FL, and Courtland, AL.

The BMDS Targets Program consists of four major areas: Consumables, Program Planning and Operations, Resources, and Flight Test Execution.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2016	FY 2017	FY 2018
Title: Consumables - Short Range Ballistic Missiles (SRBM)	31.109	29.956	9.168

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

Page 8 of 42

Exhibit R-2A, RDT&E Project Justification: FY 2018 Missile De	efense Agency		Date: N	1ay 2017	
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603915C I Ballistic Missile Defense Targets	Project (Number/Name) MT05 / BMDS Targets Program			
B. Accomplishments/Planned Programs (\$ in Millions, Article	Quantities in Each)		FY 2016	FY 2017	FY 2018
	Ar	ticles:	-	-	
Description: Consumables include SRBM target hardware development of the second of t	opment and manufacturing.				
Target development includes non-recurring engineering, MBRVs, BMDS flight testing. Target development provides air, sea, and gr design. Development activities include requirements decomposition characterization. The BMDS Targets Program Office manages tar integration, reliability, mission assurance, and costs. The BMDS Tand affordable.	round launch capabilities to maximize flexibility in MDA test on, design, modeling and simulation, qualification testing, a rget configuration, component interface specifications, rang	ind je			
Target manufacturing includes the build of targets and target com Manufacturing includes government furnished equipment and new included are target characterization, quality and mission assurance Program delivers fully assembled and integrated targets to the BN target types and quantities noted in the Planned Accomplishments	w component acquisition, assembly, and integration. Also ce, transportation, and logistics support. The BMDS Targets MDS Test Program. Future revisions to the IMTP will likely				
FY 2016 Accomplishments: -Aegis Readiness Assessment Vehicle-G (ARAV-G) - continued in hardware and the re-entry vehicle (RV) nose tip; initiated manufactive reviews in FY 2017 (Ship Set 1) and FY 2018 (Ship Set 2) -Terrier, Terrier, Oriole-Extended Vehicle (TTO-E) - delivered Ship flight test in FY 2017; continued manufacturing of Ship Sets 3 and 2017 -Foreign Materiel Acquisition-1 (FMA-1) - delivered Ship Set 15 to	cturing of Ship Sets 1 and 2 to support pre-ship readiness p Set 1 to support pre-ship readiness review in FY 2016 and 4 to support pre-ship readiness reviews and flight tests in				
FY 2017 Plans:					
Decrease is due to the completion of non-recurring engineering ef	fforts for the ARAV-G target.				
-Aegis Readiness Assessment Vehicle-G (ARAV-G) - deliver Ship 2017, continue manufacturing of Ship Set 2 to support pre-ship re-Juno - continue non-recurring engineering development efforts; in readiness review in FY 2018 and flight test in FY 2019	eadiness review and flight test in FY 2018				

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

UNCLASSIFIED Page 9 of 42

Exhibit R-2A, RDT&E Project Justification: FY 2018 Missile Do	efense Agency		Date: M	ay 2017	
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603915C I Ballistic Missile Defense Targets				
B. Accomplishments/Planned Programs (\$ in Millions, Article	e Quantities in Each)		FY 2016	FY 2017	FY 2018
-Develop and manufacture additional SRBMs, MBRVs, and Cour	ntermeasures, as required by the BMDS IMTP				
FY 2018 Plans: Decrease is due to the final efforts related to the ARAV-G targets	S.				
Note: Because Aegis Readiness Assessment Vehicle (ARAV) talbeginning in FY 2018, targets previously given the ARAV prefix v (SRBM T4), with an identifier after the T4 to show specifically what type targets will now be known as SRBM T4-G targets.	will be renamed Short Range Ballistic Missile (SRBM) Type	4			
-Short Range Ballistic Missile T4-G (SRBM T4-G) - continue mar flight test in FY 2019 -Initiate competitive award for future low-cost targets -Develop and manufacture additional SRBMs, MBRVs, and Cour		and			
Title: Consumables - Medium Range Ballistic Missiles (MRBM)			123.349	138.654	99.952
		rticles:	-	-	-
Description: MRBM target hardware development and manufactionsumables-SRBM section.	cturing is consistent with the Description found in the				
Starting in FY 2017, Modified Ballistic Re-Entry Vehicle-7 (MBRV Consumables - Multi-Class section.	/-7) efforts are being transferred to this section from the				
FY 2016 Accomplishments: -MRBM Type 3 (MRBM T3) - delivered Ship Sets 3 and 4 to supp 2016 (Ship Set 3) and FY 2017 (Ship Set 4); continued manufact 2017					
-MRBM Type 3 Configuration 2 (MRBM T3C2) - initiated non-rec initiate manufacture of Ship Set 5 for delivery in FY 2018					
-Modified Ballistic Re-entry Vehicle-5 (MBRV-5) - implemented P Sets 3 and 4 to support flight tests in FY 2016 (Ship Set 3) and F support a flight test in FY 2018					
-MRBM T1/T2 - continued non-recurring engineering efforts; con acceptance review and pre-ship readiness review in FY 2019; ini		6 to			

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

UNCLASSIFIED
Page 10 of 42

Exhibit R-2A, RDT&E Project Justification: FY 2018 Missile Det	fense Agency	,	Date: N	1ay 2017	
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603915C I Ballistic Missile Defense Targets	Project (Number/Name) MT05 / BMDS Targets Program			
B. Accomplishments/Planned Programs (\$ in Millions, Article	Quantities in Each)	Γ	FY 2016	FY 2017	FY 2018
support pre-ship readiness reviews in FY 2019 (Ship Set 2), FY 205 and 6) -Extended Long Range Air Launch Target (E-LRALT) - completed support a planned flight test in FY 2017	021 (Ship Set 3), FY 2022 (Ship Set 4), and FY 2023 (Ship				
FY 2017 Plans: Increase is due transfer of funds previously captured in the Consu Modified Ballistic Re-Entry Vehicle-7 (MBRV-7) effort and hardwar					
-MRBM Type 3 (MRBM T3) - deliver Ship Set 2 to support a pre-sl-MRBM Type 3 Configuration 2 (MRBM T3C2) - continue non-recurrence continue manufacturing Ship Set 5 for delivery in FY 2018; initiate -MBRV-7 - continue manufacturing Ship Sets 6-9 (4 MBRVs) to support additional MBRV-7s are needed to meet IMTP requirements and the Information (RFI) was released to the public in 2015 -MRBM T1/T2 - continue non-recurring engineering efforts; continue review in FY 2017 and pre-ship readiness review in FY 2019; contreviews in FY 2020 (Ship Set 2), FY 2021 (Ship Sets 3 and 4), FY -Extended Long Range Air Launch Target (E-LRALT) - deliver Ship 2017 - Develop and manufacture additional MRBMs, Re-Entry Vehicles,	urring engineering design and development of MRBM T3C manufacturing of Ship Set 6 for delivery in FY 2019 apport Flight Test Missions in FY 2018, FY 2020, and FY 2 he Government is competing the contract, the Request for use manufacturing Ship Set 1 to support first target acceptatinus manufacturing Ship Sets 2-6 to support pre-ship reactions (Ship Set 5), and FY 2023 (Ship Set 6) in Set 2 to support pre-ship readiness review and flight test	2021; r ance diness			
FY 2018 Plans: Decrease is due to reduced non-recurring engineering efforts for the	he MRBM T1/T2 and the MRBM T3C2 targets.				
-MRBM Type 3 Configuration 2 (MRBM T3C2) - continue non-recu continue manufacturing of Ship Set 5 and 6 for delivery in FY 2018 2019 -MBRV-7 - continue recurring engineering efforts; deliver MBRV-7 manufacturing MBRV-7 front sections to support MRBM T1/T2 Sh -MRBM T1/T2 - continue non-recurring engineering efforts; continue review and pre-ship readiness review in FY 2019; continue manufacturing FY 2019 (Ship Set 2), FY 2021 (Ship Set 3), FY 2022 (Ship Set -Competitively award effort for MRBM Countermeasure developments.	8 (Ship Set 5) and FY 2019 (Ship Set 6) and flight tests in front section to support MRBM T1/T2 Ship Set 3; continuip Sets 4-6 ue manufacturing Ship Set 1 to support first target accepta acturing of Ship Sets 2-6 to support pre-ship readiness review, and FY 2023 (Ship Sets 5 and 6) ent and build.	FY e ance			

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

	UNCLASSIFIED				
Exhibit R-2A, RDT&E Project Justification: FY 2018 Missile Defe	ense Agency		Date: N	ay 2017	
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603915C / Ballistic Missile Defense Targets	Project (Number/Name) MT05 / BMDS Targets Program			
B. Accomplishments/Planned Programs (\$ in Millions, Article C	Quantities in Each)		FY 2016	FY 2017	FY 2018
-Develop and manufacture additional MRBMs, Re-Entry Vehicles, a	and Countermeasures, as required by the BMDS IMTP				
Title: Consumables - Intermediate Range Ballistic Missiles (IRBM)	Ai	rticles:	102.330 -	141.986 -	68.55 -
Description: IRBM target hardware development and manufacturing SRBM section.	ng is consistent with the Description found in the Consum	nables-			
Starting in FY 2017, Modified Ballistic Re-Entry Vehicle-8 (MBRV-8) associated with the IRBM are being transferred to this section from		ts			
FY 2016 Accomplishments: -IRBM T1/T2 - delivered Ship Set 4 to support pre-ship readiness reof Ship Sets 2 and 5-14 to support pre-ship readiness reviews in FY 2019 (Ship Sets 10-12), and FY 2021 (Ship Set 13 and 14); initiated reviews in FY 2021	/ 2017 (Ship Sets 2 and 5), FY 2018 (Ship Sets 6-9), FY				
FY 2017 Plans: Increase is due to transfer of funds previously captured in the Cons MBRV-8, MBRV-8 Characterization, and Countermeasures efforts. Ship Sets 13-16 contributed to the increase over FY 2016.					
-IRBM T1/T2 - deliver Ship Sets 2 and 5 to support pre-ship readines and integration of Ship Sets 6-16 to support pre-ship readiness revi FY 2020 (Ship Set 14), and FY 2021 (Ship Sets 15 and 16) -MBRV-8 - deliver Ship Set 2 to support a flight test in FY 2017 and FY 2018; perform additional characterization on the MBRV-8 -Develop and manufacture additional IRBMs, Re-Entry Vehicles, and	ews in FY 2018 (Ship Sets 6-9), FY 2019 (Ship Sets 10-continue manufacturing Ship Sets 4-7 to support flight to	13),			
FY 2018 Plans: Decrease is due to major hardware purchases being completed in F	=Y 2017.				
-IRBM T1/T2 - deliver Ship Sets 6 and 7 to support flight tests in FY 2019; continue manufacturing and integration of Ship Sets 10-16 to and 11), FY 2021 (Ship Sets 12), FY 2022 (Ship Sets 13 and 14), a	support pre-ship readiness reviews in FY 2020 (Ship Se				

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

UNCLASSIFIED
Page 12 of 42

	ONOLAGOII ILD				
Exhibit R-2A, RDT&E Project Justification: FY 2018 Missile Defen	se Agency		Date: M	lay 2017	
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603915C I Ballistic Missile Defense Targets	Project (Number/Name) MT05 / BMDS Targets Program			
B. Accomplishments/Planned Programs (\$ in Millions, Article Qu	uantities in Each)		FY 2016	FY 2017	FY 2018
-MBRV-8 - deliver Ship Sets 4 and 5 to support flight tests in FY 2018 perform additional characterization on the MBRV-8 -Competitively award effort for IRBM Countermeasures -Competitively award effort for IRBM aeroshells -Develop and manufacture additional IRBMs, Re-Entry Vehicles, and		2019;			
Title: Consumables - Intercontinental Ballistic Missiles (ICBM)			42.264	63.414	52.843
		rticles:	-	-	-
Description: ICBM target hardware development and manufacturing SRBM section.	is consistent with the Description found in the Consun	nables-			
Starting in FY 2017, MBRV-8, MBRV-8 Characterization, and Countertransferred to this section from the Consumables - Multi-Class section					
FY 2016 Accomplishments: -ICBM T1/T2 - delivered Ship Set 1 for first flight test currently scheduled 2017 and delivered Ship Set 2 to support pre-ship readiness review in -Continued integration of the ICBM Ground Test Missile -Conducted Pathfinder Operation at Reagan Test Site in preparation	n FY 2017 for fight test in FY 2018	rter FY			
FY 2017 Plans: Increase is due transfer of funds previously captured in the Consuma MBRV-8, MBRV-8 Characterization, and Countermeasures efforts.	ables - Multi-Class section for the ICBM costs related to	o the			
-ICBM T1/T2 - continue manufacturing Ship Set 3 to support pre-ship Set 4 and 5 to support pre-ship readiness reviews in FY 2021 and FY-MBRV-8 - deliver Ship Set 3 to support a flight test in FY 2017; conti 2019; perform additional characterization on the MBRV-8 -Continue integration of the ICBM Ground Test Missile used as a pat-Develop and manufacture additional ICBMs, Re-Entry Vehicles, and	7 2022 inue manufacturing Ship Set 8 to support a flight test in hfinder for the Concept of Operations				
FY 2018 Plans: Decrease is due to reduced hardware purchases in FY 2018.					

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

UNCLASSIFIED
Page 13 of 42

	UNCLASSIFIED				
Exhibit R-2A, RDT&E Project Justification: FY 2018 Missile Defense	Agency		Date: M	ay 2017	
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603915C / Ballistic Missile Defense Targets		Project (Number/Name) NT05		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quant			FY 2016	FY 2017	FY 2018
-ICBM T1/T2 - continue manufacturing Ship Set 3, 4, and 5 to support pr 2022 (Ship Set 4), and FY 2023 (Ship Set 5) -MBRV-8 - continue performing characterization on the MBRV-8 -Continue integration of the ICBM Ground Test Missile used as a pathfin -Competitively award ICBM T2CU effort -Develop and manufacture additional ICBMs, Re-Entry Vehicles, and Co	nder for the Concept of Operations	Υ			
Title: Consumables - Multi-Class	A	rticles:	59.224 -	0.000	0.00
Description: Multi-Class hardware development and manufacturing is c SRBM section.	consistent with the Description found in the Consuma	ables-			
FY 2016 Accomplishments: -Modified Ballistic Re-Entry Vehicle-7 (MBRV-7) - continued manufacturing FY 2019; initiated production of Ship Sets 8 and 9 to support flight tests -MBRV-8 - continued manufacturing of Ship Sets 3 and 4 to support flight initiated production of Ship Sets 5-8 to support flight tests in FY 2018	in FY 2019 and FY 2020				
FY 2017 Plans: Beginning in FY 2017, funds previously associated with this R2A Accomsupport.	plishment are captured in the specific target class the	ney			
-MBRV-7 efforts have been transferred to Consumables - Medium Rang -MBRV-8 and MBRV-8 Characterization efforts have been transferred to (IRBM) and Intercontinental Ballistic Missiles (ICBM) -Countermeasures efforts have been transferred to Consumables - Inter Intercontinental Ballistic Missiles (ICBM)	Consumables - Intermediate Range Ballistic Missil	es			
FY 2018 Plans: See FY 2017 explanation.					
Title: Program Planning & Operations	A	rticles:	63.188	67.373 -	68.11 -
Description: Program Planning and Operations provides for government effort is program and business management, program administration, te					

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

UNCLASSIFIED
Page 14 of 42

	UNULASSII ILD				
Exhibit R-2A, RDT&E Project Justification: FY 2018 Missile Defer	nse Agency		Date: M	ay 2017	
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603915C I Ballistic Missile Defense Targets	Project (Number/Name) MT05 / BMDS Targets Program			
B. Accomplishments/Planned Programs (\$ in Millions, Article Q	<u>Quantities in Each)</u>		FY 2016	FY 2017	FY 2018
software development, government manpower and infrastructure to system and components. Other Government Agency and Federally used for highly specialized skill sets not available internal to Targets include the following:	Funded Research and Development Research Centers	are			
-Provide technical and business management support activities, final cost estimation and analysis, and integration activities -Provide program management, subcontract management, quality a and technical and testing oversight -Ensure Targets and Countermeasures program compliance with integration of the conduct Internal Program Plans that align with the MDA approved -Provide program and technical management of target launch operation coordination, and mission requirements	assurance, verification of hardware and software develop ternal and external direction, policies, and regulations IMTP	ment,			
FY 2016 Accomplishments: See above.					
FY 2017 Plans: Increase over FY 2016 is due to the addition of cost sharing for Inforportal and data services, business automation, and IT consumables		ort,			
See above, with addition of the following:					
-Provide information technology services to support management of	f the Targets program				
FY 2018 Plans: See FY2017 Plans above.					
Title: Resources	Aı	rticles:	59.474 -	57.836 -	56.24
Description: BMDS Target Resources consist of two sub-elements					
Systems Engineering/Program Management provides technical dire cost, schedule, performance, and risk. It conducts functional require specifications/interfaces, performs configuration and data management	ements allocation to product lines, defines product line				

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

Page 15 of 42 R-1 Line #90

Exhibit R-2A, RDT&E Project Justification: FY 2018 Missile D	Pefense Agency		Date: N	1ay 2017	
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603915C I Ballistic Missile Defense Targets				
B. Accomplishments/Planned Programs (\$ in Millions, Article	e Quantities in Each)		FY 2016	FY 2017	FY 2018
target system analysis to verify system performance, defines target conducts pre and post-flight analysis. It identifies treaty and environments Quality, Safety, and Mission Assurance operations to enfor design, test, manufacturing, quality, safety and reliability to enalso includes Single Stimulation Framework (SSF)/Objective Simexecution and improvements to evolve TC Modeling and Simulate characterization; studies to assess alternative target and platform approval of government furnished equipment. Specific Systems -Continue Program Management and Business Operations for target the Targets program -Continue providing classified network connections to Other Govused to support Target requirements -Continue analyses of future target Launch Vehicles, Re-Entry Verepresentative and that the Agency is making use of available terescontinue performing Pedigree Reviews to ensure high probabilities. Continue information technology and classified network support -Continue Software Independent Verification and Validation (IV&under development, including the Intermediate Range Ballistic Minimum support -Continue Range Range Range Ballistic Minimum support -Continue Range Range Range Range Range Range Range Range Range R	ironmental issues and develops plans for issue resolution. It insure compliance with Missile Defense Agency requirement insure high quality products are delivered for test events. It inulation Framework (OSF) compatible Modeling and Simulation capability; trajectory analyses; signature analyses and in solutions; assessments of risk management; and design a Engineering Planned Accomplishments include: Agreet components to provide a framework for overall management and launch platforms to ensure they are threat echnology in our future designs ity of mission success to ensure sensitive target information is not compromised activities.	ts tion ement an be			
BMDS Targets Program Logistics support provides target storag support of BMDS testing. Also included are integrated logistics s surveillance, disposal, special testing for rocket motor propellants and oversees accountability of all government furnished equipment common support equipment for launch vehicles, MBRVs, counte launch site activations through the transportation of support equipments include: -Continue Multi-Class Inventory storage, aging surveillance, main ensured availability of Modified Ballistic Re-entry Vehicles and grand-Conduct disposal actions of inert assets	support for facilities, inventory maintenance, spare parts, agi ts, and other hazardous material handling. This task manage ent and contractor acquired property. Logistics also provides ermeasures, and all up integrated target rounds. It also suppipment to various test sites. Specific Targets Logistics Plant intenance of existing assets, and transportation support that	es s orts ned			
FY 2016 Accomplishments:					

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

UNCLASSIFIED
Page 16 of 42

Exhibit D 24 DDT9E Project Justification, EV 2019 Missile F	ONOLAGON ILD	Data: N	10v 2017	
<u> </u>	t R-2A, RDT&E Project Justification: FY 2018 Missile Defense Agency Date: May 2017			
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603915C / Ballistic Missile Defense Targets	Project (Number/I MT05 / BMDS Targ		
B. Accomplishments/Planned Programs (\$ in Millions, Artic	le Quantities in Each)	FY 2016	FY 2017	FY 2018
See above.				
FY 2017 Plans: Decrease in FY 2017 due to Target Resource requirements for	the mix of flight tests planned.			
See above.				
FY 2018 Plans:				
See above.				
Title: Flight Test Execution	Ar	22.387 <i>ticles:</i>	40.618 -	37.079 -
planning, coordinates target range and mission requirements, a Agency's General Counsel to support treaty approvals. The Tartarget developer and the Ballistic Missile Defense System test of mission countdown and launch constraints.	get Launch Operations Group is the primary link between the	;		
FY 2016 Accomplishments: -Conducted a Ground-Based Midcourse Defense (GMD) 3-stag test with an air-launched Intermediate Range Ballistic Missile (IF-Conducted a Ground-Based Midcourse Defense (GMD) 3-stag Upgrade (CBAU) CE-II Blk I Exoatmospheric Kill Vehicle (EKV) Ballistic Missile (ICBM) target	RBM) target e CE-II Configuration 2 (C2)/Consolidated Booster Avionics			
-Conducted an Aegis BMD Baseline 9.C2 (5.1) SM-3 Blk IIA mis (MRBM) target -Conducted an Aegis BMD Baseline 9.C2 (5.1) SM-3 Blk IIA mis target				
-Conducted target test engineering, mission logistics, and launce and developmental flight testing across the Ballistic Missile Defe Master Test Plan (IMTP) in various test Major Range and Test F-Conducted mission planning and range coordination activities, missions, provided communications security equipment and ma	ense System Targets Program in accordance with the Integra Facilities (MRTF). perform final target system integration and execute target	ted		
FY 2017 Plans: Increase from FY 2016 due to mix of flight tests in the Agency's				

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

UNCLASSIFIED

Page 17 of 42 R-1 Line #90

	UNULAGGII ILD							
Exhibit R-2A, RDT&E Project Justification: FY 2018 Missile Defe	ense Agency		Date: N	1ay 2017				
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603915C I Ballistic Missile Defense Targets Project (Number/Name) MT05 I BMDS Targets Progra			PE 0603915C / Ballistic Missile Defense MT05 / BMDS		Project (Number/Name) MT05 / BMDS Targets Program		
B. Accomplishments/Planned Programs (\$ in Millions, Article (Quantities in Each)		FY 2016	FY 2017	FY 2018			
Conduct final target integration with the test range and accomplisi in support of a Ground-Based Midcourse Defense (GMD) 3-stage (Upgrade (CBAU) CE-II Blk I Exoatmospheric Kill Vehicle (EKV) Ground Conduct final target integration with the test range and accomplish engagement of a 3-stage Heritage CE-II and a 3-stage Heritage C-Conduct final target integration with the test range and accomplish BMD Baseline 9.C1 SM-6 Dual Interceptor salvo engagement -Conduct final target integration with the test range and accomplish BMD SM-3 Launch on Remote engagement -Conduct final target integration with the test range and accomplish BMD Baseline 9.C2 SM-3 Block IIA engagement -Conduct final target integration with the test range and accomplish in support of a THAAD TH3.0.0 endo-atmospheric engagement -Conduct final target integration with the test range and accomplish GMD simulated engagement through Weapons Task Plan (WTP) -Conduct final target integration with the test range and accomplish BMD Baseline 9.C2 simulated engagement -Conduct final target integration with the test range and accomplish BMD Baseline 9.C2 SM-6 Dual Interceptor engagement -Conduct target test engineering and launch operations with consis flight testing across the BMDS Targets Program in accordance with (MRTF). -Conduct mission planning and range coordination activities, perfor provided communications security equipment and management for FY 2018 Plans: Decrease is due to fewer flight tests in the Agency's Integrated Mase-Conduct final target integration with the test range and accomplish Based Midcourse Defense (GMD) Initial Operational Test and Eval two 3-stage C1 Heritage Ground Based Interceptors with CE-I and -Conduct final target integration with the test range and accomplish BMD Baseline 9.C2 SM-3 Blk IIA Engage on Remote (AN/TPY-2 Finance).	CE-II Configuration 2 (C2)/Consolidated Booster Avionics bund-Based Interceptor engagement launch operations of an ICBM target in support of a GME E-I GBI launch operations of a MRBM target in support of an Aeri launch operations of a MRBM target in support of an Aeri launch operations of a MRBM target in support of an Aeri launch operations of a MRBM target in support of an Aeri launch operations of one MRBM target and one SRBM in launch operations of an air launched IRBM target in support of an Aeri launch operations of a SRBM target in support of an Aeri launch operations of a SRBM target in support of an Aeri launch operations of a SRBM target in support of an Aeri launch operations of a SRBM target in support of an Aeri launch operations of a SRBM target in support of an Aeri launch larget system integration and execute target miss Ballistic Missile Defense System Flight Test events Ster Test Plan for FY 2018. I launch operations of an ICBM target in support of Ground uation (IOT&E) demonstrating a salvo (2) engagement find CE-I Exo-atmospheric Kill Vehicles (EKV) I launch operations of an IRBM target in support of an Aerica IRBM target in support of an Ae	D salvo egis egis egis egis target poort of gis gis ental s sions,						

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

Exhibit R-2A, RDT&E Project Justification: FY 2018 Missile Defense Agency	Date: May 2017		
,	, ,	, ,	umber/Name) IDS Targets Program

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2016	FY 2017	FY 2018
-Conduct final target integration with the test range and accomplish launch operations of two IRBM targets in support of an operational engagement using European Phased Adaptive Approach (EPAA) Phase 3 architecture -Conduct initial planning and final target integration with the test range and forward staging area in support of Two IRBM targets and one MRBM target in support of a BMDS Integrated Operational Test engagement using regional/theater architecture -Conduct final target integration with the test range and accomplish launch operations of Short Range Ballistic Missile (SRBM) target in support of Aegis BMD SM-6 Dual II (simultaneous engagement with AAW)			
Accomplishments/Planned Programs Subtotals	503.325	539.837	391.957

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

The MDA BMDS Targets Program provides for the development and purchase of ballistic missile targets and countermeasures for the BMDS in support of the MDA's flight test program. The BMDS Targets Program requirements are derived from the BMDS Integrated Master Test Plan (IMTP).

The BMDS Targets and Countermeasures Program Acquisition Strategy is based on three premises. The first is to utilize existing capabilities. The second is to initiate new development if there is no existing capability using firm-fixed price contracts with incentive fee based on cost, schedule and performance. The third premise is to use cost reimbursable contracts with incentive fee based on cost, schedule, and performance for new development that has high-risk.

MDA BMDS Targets Program competitively awarded a prime contract to Orbital Sciences Corporation air-launched IRBM targets. This award included two follow-on options; one for eight IRBM targets (exercised) and another for one to six IRBM targets.

MDA BMDS Targets Program conducted a limited competition and awarded a contract modification to Orbital Sciences Corporation for development of ICBM targets. This award included two ICBM Stage Zero Kits to be used with an existing air-launched IRBM target.

The United States Air Force transferred the L-3 Communications/Coleman Aerospace Corporation contract for one air-launched medium range ballistic missile and one air-launched short range ballistic missile to MDA in FY 2013.

MDA BMDS Targets Program competitively awarded a prime contract to L-3 Communications/Coleman Aerospace Corporation to provide 6 MRBM targets. This award includes one follow-on option, for up to twelve additional MRBM targets.

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

Page 19 of 42

Exhibit R-2A, RDT&E Project Justification: FY 2018 Missile Defense Agency	1	Date: May 2017
1	,	umber/Name) IDS Targets Program

The Aegis Readiness Assessment Vehicle (ARAV) target effort is managed by MDA BMDS Targets Program and the Naval Surface Warfare Center Port Hueneme Division White Sands (NSWC PHD WS). NSWC PHD WS has unique sounding rocket expertise and access to existing contracts managed by White Sands Missile Range that makes this a beneficial relationship for both parties. MDA BMDS Targets Program provides targets funding via Military Interdepartmental Purchase Orders that NSWC PHD WS expends on its hardware development and engineering contracts.

MDA BMDS Targets Program is currently in various stages of planning or execution for procurement of ballistic missile targets by range class: SRBM, MRBM, IRBM, and ICBM. These targets will be procured using a Target Performance Specification to support flight test requirements as identified in the IMTP. Each target class will be solicited, evaluated, and competitively awarded independently in IMTP "need date" priority order.

Within each target class, capabilities are further segregated and designated as a class type. Type 1, Type 2, and Type 3 capabilities are defined as follows:

Type 1: A Type 1 target is the baseline (simple) configuration for the class. A Type 1 target satisfies the minimum target requirements to provide the baseline capability for each target class. The baseline configuration represents the complete vehicle stack-up and includes: 1-n boosters, attitude control system, test object, flight termination system, housekeeping and environmental instrumentation, and telemetry. For example, the basic configuration of an LV-2 target is representative of a Type 1 configuration in the intermediate range class.

Type 2: A Type 2 target requires more advanced or complex performance capabilities. Type 2 capabilities may be included in the baseline Type 1 configuration or provided as configuration kits that can be added to the baseline configuration. Type 2 kits may include the following: countermeasures and associated deployment capability, enhanced targeting and aim point accuracies, selectable booster and test object dynamics, tailored separation debris, temperature sensors, hit location and miss distance instrumentation, onboard sensors, deployable fly along sensors, and/or lethality payloads. For example, the LV-2 target with countermeasures or additional payloads is representative of a Type 2 configuration in the intermediate range class.

Type 3: A Type 3 target is a unique configuration procured in low unit quantities. Type 3 targets encompass unique threat characteristics or test conditions (i.e. Ground Based Midcourse Defense high velocity engagement scenario) not achievable with a Type 1 or Type 2 configuration.

E. Performance Metrics

N/A

PE 0603915C: Ballistic Missile Defense Targets Missile Defense Agency

UNCLASSIFIED

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 0603915C / Ballistic Missile Defense

Targets

Project (Number/Name)

MT05 / BMDS Targets Program

Date: May 2017

Product Developme	nt (\$ in M	illions)		FY 2	2016	FY 2	2017	FY 2 Ba	2018 se		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
Consumables - Short Range Ballistic Missiles (SRBM) - 1	C/CPAF	L3 Communications/ Coleman Aerospace : Orlando, FL	27.641	2.616	Nov 2015	0.000		0.000		-		0.000	Continuing	Continuing	Continuin
Consumables - Short Range Ballistic Missiles (SRBM) - 2	MIPR	Naval Surface Warfare Center, Port Hueneme : Port Hueneme, CA	30.356	25.743	Nov 2015	10.168	Nov 2016	5.316	Nov 2017	-		5.316	Continuing	Continuing	Continuing
Consumables - Short Range Ballistic Missiles (SRBM) - 6	C/CPAF	Juno Target : TBD	0.000	2.750	Jul 2016	19.788	Nov 2016	0.000		-		0.000	Continuing	Continuing	Continuing
Consumables - Short Range Ballistic Missiles (SRBM) - 7	C/CPAF	Lockheed Martin Space Systems Company : Courtland, AL	20.965	0.000		0.000		1.014	Nov 2017	-		1.014	0	21.979	20.965
Consumables - Short Range Ballistic Missiles (SRBM) - 8	C/CPAF	Future Low Cost Target : TBD	0.000	0.000		0.000		2.838	Mar 2018	-		2.838	0	2.838	4.192
Consumables - Medium Range Ballistic Missiles (MRBM) - 1	C/CPAF	Lockheed Martin Space Systems Company : Courtland, AL	379.167	38.580	Nov 2015	19.133	Nov 2016	22.879	Nov 2017	-		22.879	Continuing	Continuing	Continuing
Consumables - Medium Range Ballistic Missiles (MRBM) - 10	C/CPAF	Orbital Sciences Corporation : Chandler, AZ	0.000	0.000		0.000		22.517	Nov 2017	-		22.517	Continuing	Continuing	Continuing
Consumables - Medium Range Ballistic Missiles (MRBM) - 11	MIPR	Naval Surface Warfare Center : Crane, IN	0.000	0.000		0.000		0.278	Dec 2017	-		0.278	Continuing	Continuing	Continuing
Consumables - Medium Range Ballistic Missiles (MRBM) - 12	C/CPAF	Future MRBM Countermeasures : TBD	0.000	0.000		0.000		11.099	Jun 2018	-		11.099	Continuing	Continuing	Continuing
Consumables - Medium Range Ballistic Missiles (MRBM) - 13	C/CPAF	Future MRBM RFP : TBD	0.000	0.000		0.000		10.367	Jun 2018	-		10.367	Continuing	Continuing	Continuing

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 0603915C I Ballistic Missile Defense

Targets

Project (Number/Name)

MT05 I BMDS Targets Program

Date: May 2017

Product Developme	nt (\$ in Mi	illions)		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
Consumables - Medium Range Ballistic Missiles (MRBM) - 14	C/CPAF	Future MRBM RV RFP : TBD	0.000	0.000		0.000		13.300	Mar 2018	-		13.300	Continuing	Continuing	Continuin
Consumables - Medium Range Ballistic Missiles (MRBM) - 2	C/CPAF	L3 Communications/ Coleman Aerospace : Orlando, FL	116.411	60.726	Nov 2015	37.355	Nov 2016	19.397	Nov 2017	-		19.397	Continuing	Continuing	Continuin
Consumables - Medium Range Ballistic Missiles (MRBM) - 3	MIPR	Naval Surface Warfare Center, Dahlgren Division : Dahlgren, VA	0.362	0.119	Nov 2015	0.058	Nov 2016	0.000		-		0.000	Continuing	Continuing	Continuin
Consumables - Medium Range Ballistic Missiles (MRBM) - 5	MIPR	White Sands Missile Range : White Sands, NM	0.016	0.380	Nov 2015	0.184	Nov 2016	0.000		-		0.000	Continuing	Continuing	Continuin
Consumables - Medium Range Ballistic Missiles (MRBM) - 6	MIPR	Pacific Missile Range Facility : Barking Sands, HI	0.009	0.208	Nov 2015	0.101	Nov 2016	0.000		-		0.000	Continuing	Continuing	Continuin
Consumables - Medium Range Ballistic Missiles (MRBM) - 7	MIPR	Space and Missile Defense Command : Huntsville, AL	0.740	1.078	Nov 2015	0.000		0.115	Dec 2017	-		0.115	0	1.933	
Consumables - Medium Range Ballistic Missiles (MRBM) - 8	C/CPAF	MRBM RFP : TBD	4.992	22.258	Nov 2015	81.792	Nov 2016	0.000		-		0.000	Continuing	Continuing	Continuin
Consumables - Medium Range Ballistic Missiles (MRBM) - 9	MIPR	Defense Information Systems Agency : Fort Meade, MD	0.000	0.000		0.031	Nov 2016	0.000		-		0.000	Continuing	Continuing	Continuin
Consumables - Intermediate Range Ballistic Missiles (IRBM) - 1	C/CPAF	Orbital Sciences Corporation : Chandler, AZ	321.664	102.330	Nov 2015	97.438	Nov 2016	38.784	Nov 2017	-		38.784	Continuing	Continuing	Continuin
Consumables - Intermediate Range Ballistic Missiles (IRBM) - 10	C/CPFF	Orbital/Alliant Techsystems : Magna, UT	0.000	0.000		0.000		3.842	Nov 2017	-		3.842	Continuing	Continuing	Continuin

PE 0603915C: Ballistic Missile Defense Targets Missile Defense Agency

UNCLASSIFIED Page 22 of 42

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 0603915C I Ballistic Missile Defense

Targets

Project (Number/Name)

MT05 / BMDS Targets Program

Date: May 2017

Product Developme	nt (\$ in M	illions)		FY 2	:016	FY 2	2017	FY 2 Ba	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 Contrac
Consumables - Intermediate Range Ballistic Missiles (IRBM) - 11	MIPR	Defense Finance and Accounting Services : Indianapolis, IN	0.000	0.000		0.000		0.341	Oct 2017	-		0.341	Continuing	Continuing	Continuin
Consumables - Intermediate Range Ballistic Missiles (IRBM) - 12	MIPR	Naval Air Weapons Station : China Lake, CA	0.000	0.000		0.000		0.759	Dec 2017	-		0.759	Continuing	Continuing	Continuin
Consumables - Intermediate Range Ballistic Missiles (IRBM) - 13	MIPR	Redstone Garrison : Huntsville, AL	0.000	0.000		0.000		0.040	Dec 2017	-		0.040	Continuing	Continuing	Continuin
Consumables - Intermediate Range Ballistic Missiles (IRBM) - 14	MIPR	Air Force Research Laboratory : Wright Patterson AFB, OH	0.000	0.000		0.000		0.055	Dec 2017	-		0.055	Continuing	Continuing	Continuin
Consumables - Intermediate Range Ballistic Missiles (IRBM) - 4	C/CPAF	Lockheed Martin Space Systems Company : Courtland, AL	27.417	0.000		16.598	Nov 2016	1.951	Nov 2017	-		1.951	Continuing	Continuing	Continuin
Consumables - Intermediate Range Ballistic Missiles (IRBM) - 5	C/CPAF	Lockheed Martin Space Systems Company : United Kingdom	0.000	0.000		9.390	Nov 2016	0.882	Nov 2017	-		0.882	Continuing	Continuing	Continuin
Consumables - Intermediate Range Ballistic Missiles (IRBM) - 6	C/CPAF	Countermeasures RFP : TBD	0.000	0.000		3.709	Nov 2016	8.108	Jun 2018	-		8.108	Continuing	Continuing	Continuin
Consumables - Intermediate Range Ballistic Missiles (IRBM) - 7	C/CPAF	MBRV-8 Characterization RFP : TBD	0.000	0.000		4.690	Nov 2016	9.018	Jul 2018	-		9.018	Continuing	Continuing	Continuin
Consumables - Intermediate Range	MIPR	US Army Garrison - Natick : Natick, MA	0.000	0.000		0.036	Nov 2016	0.000		-		0.000	Continuing	Continuing	Continuin

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

UNCLASSIFIED
Page 23 of 42

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 0603915C / Ballistic Missile Defense

PE 0603915C I Ballistic Missile Defens Targets Project (Number/Name)

MT05 / BMDS Targets Program

Date: May 2017

Product Developme	nt (\$ in M	illions)		FY 2	2016	FY 2	2017	FY 2 Ba	2018 se	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
Ballistic Missiles (IRBM) - 8															
Consumables - Intermediate Range Ballistic Missiles (IRBM) - 9	C/CPAF	Future MBRV RFP : TBD	0.000	0.000		10.125	Nov 2016	4.779	Jul 2018	-		4.779	Continuing	Continuing	Continuin
Consumables - Intercontinental Ballistic Missiles (ICBM) - 1	C/CPAF	Orbital Sciences Corporation : Chandler, AZ	131.377	32.335	Nov 2015	26.823	Nov 2016	27.902	Nov 2017	-		27.902	Continuing	Continuing	Continuin
Consumables - Intercontinental Ballistic Missiles (ICBM) - 10	C/CPAF	Lockheed Martin Space Systems Company : Courtland, AL	0.000	0.000		11.848	Nov 2016	0.206	Nov 2017	-		0.206	Continuing	Continuing	Continuin
Consumables - Intercontinental Ballistic Missiles (ICBM) - 11	FFRDC	Massachusetts Institute of Technology, Lincoln Labs: Lexington, MA	0.000	0.000		11.172	Nov 2016	0.000		-		0.000	Continuing	Continuing	Continuin
Consumables - Intercontinental Ballistic Missiles (ICBM) - 12	C/CPAF	MBRV-X RFP : TBD	0.000	0.000		9.690	Nov 2016	0.000		-		0.000	Continuing	Continuing	Continuin
Consumables - Intercontinental Ballistic Missiles (ICBM) - 13	C/CPAF	Lockheed Martin Space Systems Company : United Kingdom	0.000	0.000		0.000		3.363	Nov 2017	-		3.363	Continuing	Continuing	Continuin
Consumables - Intercontinental Ballistic Missiles (ICBM) - 14	MIPR	Air Force Research Laboratory : Wright Patterson AFB, OH	0.000	0.000		0.000		0.055	Dec 2017	-		0.055	Continuing	Continuing	Continuin
Consumables - Intercontinental Ballistic Missiles (ICBM) - 15	C/CPAF	ICBM T3C2 RFP : TBD	0.000	0.000		0.000		12.223	Jun 2018	-		12.223	Continuing	Continuing	Continuin
Consumables - Intercontinental Ballistic Missiles (ICBM) - 16	C/CPAF	Future MBRV RFP : TBD	0.000	0.000		0.000		9.018	Jul 2018	-		9.018	Continuing	Continuing	Continuin

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

UNCLASSIFIED
Page 24 of 42

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 0603915C / Ballistic Missile Defense

Targets

Project (Number/Name)

MT05 I BMDS Targets Program

Date: May 2017

Product Developmen	it (\$ in M	illions)		FY 2	2016	FY 2	2017	FY 2 Ba	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
Consumables - Intercontinental Ballistic Missiles (ICBM) - 2	C/CPFF	Alliant Techsystems : Magna, UT	3.688	3.771	Nov 2015	3.801	Nov 2016	0.000		-		0.000	Continuing	Continuing	Continuing
Consumables - Intercontinental Ballistic Missiles (ICBM) - 3	MIPR	Defense Financial and Accounting Service : Indianapolis, IN	0.000	2.656	Nov 2015	0.000		0.000		-		0.000	0	2.656	C
Consumables - Intercontinental Ballistic Missiles (ICBM) - 4	MIPR	Naval Air Weapons Station : China Lake, CA	0.077	0.448	Nov 2015	0.080	Nov 2016	0.000		-		0.000	Continuing	Continuing	Continuing
Consumables - Intercontinental Ballistic Missiles (ICBM) - 5	MIPR	Naval Surface Warfare Center, Dahlgren Division : Dahlgren, VA	0.000	0.071	Nov 2015	0.000		0.076	Dec 2017	-		0.076	0	0.147	0
Consumables - Intercontinental Ballistic Missiles (ICBM) - 6	MIPR	Pacific Missile Range Facility : Barking Sands, HI	0.000	0.107	Nov 2015	0.000		0.000		-		0.000	0	0.107	0
Consumables - Intercontinental Ballistic Missiles (ICBM) - 7	MIPR	Redstone Garrison : Huntsville, AL	0.000	0.040	Nov 2015	0.000		0.000		-		0.000	0	0.040	a
Consumables - Intercontinental Ballistic Missiles (ICBM) - 8	MIPR	Reagan Test Site : Kwajalein Atoll	0.000	2.836	Nov 2015	0.000		0.000		-		0.000	0	2.836	a
Consumables - Multi-Class - 1	C/CPAF	Lockheed Martin Space Systems Company : Courtland, AL	164.796	38.407	Nov 2015	0.000		0.000		-		0.000	Continuing	Continuing) Continuinç
Consumables - Multi-Class - 2	C/CPAF	Lockheed Martin Space Systems Company : United Kingdom	18.189	3.281	Nov 2015	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Consumables - Multi-Class - 6	C/CPAF	Associated Objects RFP: TBD	0.000	17.536	Dec 2015	0.000		0.000		-		0.000	Continuing	Continuing	Continuin

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

UNCLASSIFIED
Page 25 of 42

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 0603915C I Ballistic Missile Defense

Targets

Project (Number/Name)

MT05 / BMDS Targets Program

Date: May 2017

Product Developmer	nt (\$ in M	illions)		FY	2016	FY 2	2017	FY 2 Ba	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
Program Planning & Operations - Program Planning and Operations - 1	C/CPAF	Targets TEAMS Support : Huntsville, AL	121.835	30.292	Nov 2015	34.579	Nov 2016	35.948	Nov 2017	-		35.948	Continuing	Continuing	Continuing
Program Planning & Operations - Program Planning and Operations - 10	MIPR	Missile Defense Agency : Huntsville, AL	86.485	28.293	Oct 2015	28.688	Oct 2016	29.992	Oct 2017	-		29.992	Continuing	Continuing	Continuing
Program Planning & Operations - Program Planning and Operations - 12	C/FFP	Network Management Resources : Chantilly, VA	1.276	0.707	Nov 2015	0.866	Nov 2016	0.133	Nov 2017	-		0.133	Continuing	Continuing	Continuing
Program Planning & Operations - Program Planning and Operations - 13	MIPR	Naval Surface Warfare Center : Crane, IN	0.000	0.000		0.000		0.273	Nov 2017	-		0.273	Continuing	Continuing	Continuing
Program Planning & Operations - Program Planning and Operations - 6	FFRDC	Johns Hopkins University, Applied Physics Lab : Baltimore, MD	1.778	0.581	Nov 2015	0.586	Nov 2016	1.118	Dec 2017	-		1.118	Continuing	Continuing	Continuing
Program Planning & Operations - Program Planning and Operations - 7	MIPR	US Army Aviation & Missile Command : Huntsville, AL	4.345	0.930	Nov 2015	0.000		0.406	Nov 2017	-		0.406	0	5.681	0
Program Planning & Operations - Program Planning and Operations - 8	MIPR	Aviation & Missile Research, Dev & Eng Center : Huntsville, AL	4.486	1.803	Nov 2015	0.000		0.000		-		0.000	0	6.289	0
Program Planning & Operations - Program Planning and Operations - 9	MIPR	US Air Force Space & Missile Systems Center (SMC) : Albuquerque, NM	3.011	0.582	Nov 2015	2.654	Nov 2016	0.241	Nov 2017	-		0.241	Continuing	Continuing	Continuing
Resources - Resources/ Logistics - 37	FFRDC	Aerospace Corporation : EI Segundo, CA	0.000	0.000		0.000		1.967	Nov 2017	-		1.967	Continuing	Continuing	Continuing

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

UNCLASSIFIED
Page 26 of 42

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 0603915C / Ballistic Missile Defense

Targets

Project (Number/Name)

MT05 / BMDS Targets Program

Date: May 2017

Product Developme	nt (\$ in M	illions)		FY 2	2016	FY 2	2017	FY 2 Ba	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
Resources - Resources/ Logistics - 38	MIPR	Redstone Test Center : Huntsville, AL	0.000	0.000		0.000		0.510	Nov 2017	-		0.510	Continuing	Continuing	Continuin
Resources - Resources/ Logistics - 39	MIPR	Defense Information Systems Agency : Fort Meade, MD	0.000	0.000		0.000		0.082	Dec 2017	-		0.082	Continuing	Continuing	Continuin
Resources - Resources/ Logistics - 40	MIPR	Army Information Management Command : San Antonio, TX	0.000	0.000		0.000		0.620	Dec 2017	-		0.620	Continuing	Continuing	Continuin
Resources - Resources/ Logistics - 41	MIPR	Marshall Space Flight Center : Huntsville, AL	0.000	0.000		0.000		0.010	Dec 2017	-		0.010	Continuing	Continuing	Continuin
Resources - Resources/ Logistics - 42	MIPR	Dugway Proving Ground : Dugway, UT	0.000	0.000		0.000		0.004	Dec 2017	-		0.004	Continuing	Continuing	Continuin
Resources - Resources/ Logistics - 1	C/CPAF	Lockheed Martin Space Systems Company : Courtland, AL	27.431	8.850	Nov 2015	7.861	Nov 2016	6.774	Nov 2017	-		6.774	Continuing	Continuing	Continuin
Resources - Resources/ Logistics - 11	MIPR	Naval Surface Warfare Center : Crane, IN	3.806	0.000		0.000		0.040	Dec 2017	-		0.040	Continuing	Continuing	Continuin
Resources - Resources/ Logistics - 12	MIPR	Redstone Arsenal Garrison : Huntsville, AL	3.181	0.040	Nov 2015	0.040	Nov 2016	0.011	Nov 2017	-		0.011	Continuing	Continuing	Continuin
Resources - Resources/ Logistics - 16	MIPR	US Property & Fiscal Office for Arizona : Phoenix, AZ	6.565	0.429	Nov 2015	0.000		1.963	Nov 2017	-		1.963	Continuing	Continuing	Continuin
Resources - Resources/ Logistics - 17	MIPR	US Army White Sands Missile Range : White Sands, NM	0.538	0.000		0.518	Nov 2016	0.000		-		0.000	Continuing	Continuing	Continuin

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

UNCLASSIFIED
Page 27 of 42

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 0603915C I Ballistic Missile Defense

Targets

Project (Number/Name)

MT05 / BMDS Targets Program

Date: May 2017

Product Developme	nt (\$ in M	illions)		FY 2	2016	FY 2	2017	FY 2 Ba	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
Resources - Resources/ Logistics - 18	MIPR	Defense Finance & Accounting Service : Indianapolis, IN	2.410	0.317	Nov 2015	0.323	Nov 2016	0.641	Nov 2017	-		0.641	Continuing	Continuing	Continuin
Resources - Resources/ Logistics - 2	C/CPFF	Orbital/Alliant Techsystems : Magna, UT	0.790	0.000		0.255	Nov 2016	0.982	Nov 2017	-		0.982	Continuing	Continuing	Continuin
Resources - Resources/ Logistics - 21	MIPR	US Air Force Space & Missile Systems Center (SMC) : Albuquerque, NM	7.923	9.867	Nov 2015	3.813	Nov 2016	2.474	Nov 2017	-		2.474	Continuing	Continuing	Continuin
Resources - Resources/ Logistics - 23	C/FFP	Venturi Aerospace : Huntsville, AL	2.115	0.000		0.026	Nov 2016	0.000		-		0.000	Continuing	Continuing	Continuin
Resources - Resources/ Logistics - 24	C/FFP	TASC, Inc. : Albuquerque, NM	6.375	0.792	Nov 2015	0.767	Nov 2016	0.000		-		0.000	Continuing	Continuing	Continuin
Resources - Resources/ Logistics - 25	MIPR	Tooele Army Depot : Tooele, UT	1.122	0.000		0.049	Nov 2016	0.446	Dec 2017	-		0.446	Continuing	Continuing	Continuin
Resources - Resources/ Logistics - 3	C/FFP	Aerojet Corporation : Albuquerque, NM	0.590	0.253	Nov 2015	0.000		0.000		-		0.000	Continuing	Continuing	Continuin
Resources - Resources/ Logistics - 34	C/CPFF	Inuteq, Corp. : Beltsville, MD	0.791	0.730	Nov 2015	0.755	Nov 2016	0.791	Nov 2017	-		0.791	Continuing	Continuing	Continuin
Resources - Resources/ Logistics - 35	MIPR	Space and Naval Warfare Systems Command : San Diego, CA	0.000	0.000		0.022	Nov 2016	0.000		-		0.000	Continuing	Continuing	Continuin
Resources - Resources/ Logistics - 36	MIPR	Tobyhanna Army Depot : Tobyhanna, PA	0.000	0.000		1.089	Nov 2016	1.101	Nov 2017	-		1.101	Continuing	Continuing	Continuin
Resources - Resources/ Logistics - 5	MIPR	Aviation & Missile Research, Dev & Eng Center : Huntsville, AL	7.451	1.448	Nov 2015	0.284	Nov 2016	0.268	Nov 2017	-		0.268	Continuing	Continuing	Continuin
Resources - Resources/ Logistics - 6	MIPR	Hill Air Force Base : Ogden, UT	3.948	0.000		2.030	Nov 2016	0.000		-		0.000	Continuing	Continuing	Continuin

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

UNCLASSIFIED
Page 28 of 42

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 0603915C / Ballistic Missile Defense

Targets

Project (Number/Name)

MT05 / BMDS Targets Program

Date: May 2017

Product Developmer	nt (\$ in M	illions)		FY 2	2016	FY 2	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
Resources - Resources/ Logistics - 7	MIPR	Missile Defense Agency : Huntsville, AL	6.903	0.938	Oct 2015	0.197	Oct 2016	0.119	Nov 2017	-		0.119	Continuing	Continuing	Continuin
Resources - Resources/ Systems Engineering - 1	C/CPAF	Lockheed Martin Space Systems Company : Courtland, AL	70.854	17.042	Nov 2015	17.392	Nov 2016	13.828	Nov 2017	-		13.828	Continuing	Continuing	Continuin
Resources - Resources/ Systems Engineering - 10	FFRDC	Sandia National Laboratories : Albuquerque, NM	3.849	0.520	Dec 2015	0.549	Dec 2016	0.000		-		0.000	Continuing	Continuing	Continuin
Resources - Resources/ Systems Engineering - 14	MIPR	Naval Air Warfare Center : Point Mugu, CA	2.386	1.650	Nov 2015	1.913	Nov 2016	0.986	Nov 2017	-		0.986	Continuing	Continuing	Continuin
Resources - Resources/ Systems Engineering - 15	MIPR	Missile Defense Agency : Huntsville, AL	0.000	0.000		1.715	Oct 2016	0.000		-		0.000	Continuing	Continuing	Continuin
Resources - Resources/ Systems Engineering - 16	TBD	L167 Support : TBD	0.000	0.000		0.000		10.263	Mar 2018	-		10.263	Continuing	Continuing	Continuin
Resources - Resources/ Systems Engineering - 2	FFRDC	Aerospace Corporation : El Segundo, CA	11.556	2.540	Nov 2015	2.632	Nov 2016	3.382	Dec 2017	-		3.382	Continuing	Continuing	Continuin
Resources - Resources/ Systems Engineering - 6	FFRDC	Johns Hopkins University, Applied Physics Lab : Baltimore, MD	1.933	0.782	Nov 2015	0.798	Nov 2016	0.000		-		0.000	Continuing	Continuing	Continuin
Resources - Resources/ Systems Engineering - 7	MIPR	US Air Force Space & Missile Systems Center (SMC) : Albuquerque, NM	4.995	4.183	Nov 2015	4.871	Nov 2016	0.000		-		0.000	Continuing	Continuing	Continuin
Resources - Resources/ Systems Engineering - 8	MIPR	Aviation & Missile Research, Dev & Eng Center : Huntsville, AL	35.172	9.093	Nov 2015	9.937	Nov 2016	8.983	Nov 2017	-		8.983	Continuing	Continuing	Continuir

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

UNCLASSIFIED
Page 29 of 42

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 0603915C I Ballistic Missile Defense

Targets

Project (Number/Name)

MT05 / BMDS Targets Program

Date: May 2017

Product Developmen	nt (\$ in M	illions)		FY 2	2016	FY 2	2017	FY 2 Ba	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 o Contrac
Flight Test Execution - 1	MIPR	Missile Defense Agency : Huntsville, AL	0.000	0.382	Oct 2015	0.374	Oct 2016	0.319	Oct 2017	-		0.319	Continuing	Continuing	Continui
Flight Test Execution - 10	MIPR	Hickam Field : Pearl Harbor, HI	0.000	0.205	Nov 2015	0.184	Nov 2016	0.097	Dec 2017	-		0.097	Continuing	Continuing	Continuir
Flight Test Execution - 11	MIPR	Redstone Army Airfield : Redstone Arsenal, AL	0.000	0.019	Nov 2015	0.019	Nov 2016	0.224	Dec 2017	-		0.224	Continuing	Continuing	Continuir
Flight Test Execution - 12	MIPR	Redstone Test Center : Huntsville, AL	0.000	0.115	Nov 2015	0.111	Nov 2016	0.048	Nov 2017	-		0.048	Continuing	Continuing	Continuir
Flight Test Execution - 13	C/CPAF	Orbital Sciences Corporation : Chandler, AZ	0.000	1.488	Nov 2015	2.072	Nov 2016	1.921	Nov 2017	-		1.921	Continuing	Continuing	Continuir
Flight Test Execution - 14	MIPR	Naval Air Warfare Center : Pt. Mugu, CA	0.000	0.429	Nov 2015	0.436	Nov 2016	3.435	Dec 2017	-		3.435	Continuing	Continuing	Continuir
Flight Test Execution - 15	C/CPAF	Lockheed Martin Space Systems Company : Courtland, AL	0.000	0.000		0.000		0.019	Dec 2017	-		0.019	Continuing	Continuing	Continuir
Flight Test Execution - 16	MIPR	Charleston Air Force Base : Charleston, SC	0.000	0.000		0.000		0.022	Dec 2017	-		0.022	Continuing	Continuing	Continuir
Flight Test Execution - 17	MIPR	Columbus Air Force Base : Columbus, MS	0.000	0.000		0.000		0.022	Dec 2017	-		0.022	Continuing	Continuing	Continuir
Flight Test Execution - 18	MIPR	Naval Surface Warfare Center : Dahlgren, VA	0.000	0.000		0.000		0.241	Nov 2017	-		0.241	Continuing	Continuing	Continuir
Flight Test Execution - 19	MIPR	National Security Agency : Fort Meade, MD	0.000	0.000		0.000		0.066	Dec 2017	-		0.066	Continuing	Continuing	Continuir

PE 0603915C: *Ballistic Missile Defense Targets* Missile Defense Agency

UNCLASSIFIED
Page 30 of 42

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 0603915C I Ballistic Missile Defense

Targets

Project (Number/Name)

Date: May 2017

MT05 I BMDS Targets Program

Product Developme	nt (\$ in Mi	llions)		FY 2	2016	FY 2	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 - 2	MIPR	Defense Finance and Accounting Services : Indianapolis, IN	0.000	6.388	Nov 2015	11.052	Nov 2016	11.323	Oct 2017	-		11.323	Continuing	Continuing	Continuin
Flight Test Execution - 3	MIPR	Pacific Missile Range Facility : Barking Sands, HI	0.000	6.281	Nov 2015	11.607	Nov 2016	1.820	Nov 2017	-		1.820	Continuing	Continuing	Continuin
Flight Test Execution - 4	MIPR	Reagan Test Site : Kwajalein Atoll	0.000	3.124	Nov 2015	6.031	Nov 2016	4.294	Nov 2017	-		4.294	Continuing	Continuing	Continuin
Flight Test Execution - 5	MIPR	Edwards Air Force Base : Lancaster, CA	0.000	2.332	Nov 2015	6.102	Nov 2016	9.198	Dec 2017	-		9.198	Continuing	Continuing	Continuin
Flight Test Execution - 6	MIPR	US Army Yuma Proving Ground : Yuma, AZ	0.000	0.285	Nov 2015	0.298	Nov 2016	1.730	Nov 2017	-		1.730	Continuing	Continuing	Continuin
Flight Test Execution - 7	MIPR	Eglin Air Force Base : Eglin AFB, FL	0.000	0.137	Nov 2015	0.167	Nov 2016	0.275	Nov 2017	-		0.275	Continuing	Continuing	Continuin
Flight Test Execution - 8	C/CPAF	L3 Communications/ Coleman Aerospace : Orlando, FL	0.000	0.727	Nov 2015	1.666	Nov 2016	0.676	Nov 2017	-		0.676	Continuing	Continuing	Continuin
Flight Test Execution - 9	MIPR	Air Force Research Laboratory : Wright Patterson AFB, OH	0.000	0.475	Nov 2015	0.499	Nov 2016	1.349	Dec 2017	-		1.349	Continuing	Continuing	Continuin
		Subtotal	1,683.767	503.325		539.837		391.957		-		391.957	-	-	-

Remarks

N/A

Support (\$ in Million	s)			FY 2	2016	FY	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 Complete	Total Cost	Target Value of Contract
		Subtotal	-	-		-		-		-		-	-	-	-

PE 0603915C: Ballistic Missile Defense Targets Missile Defense Agency

Page 31 of 42 R-1 Line #90

					Ur	NCLAS:	SIFIED								
Exhibit R-3, RDT&E	Project C	ost Analysis: FY 2	2018 Miss	ile Defen	se Agend	у						Date:	May 2017	7	
Appropriation/Budg 0400 / 4	et Activity	1					ogram El 03915C <i>I E</i> s		: (Numbe BMDS Ta	r/Name) argets Prog	gram				
Support (\$ in Millior	าร)			FY:	2016	FY 2017		FY 2018 Base			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 Contrac
Remarks N/A												_			
Test and Evaluation	(\$ in Milli	ons)		FY:	2016	FY	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 Cost Date		Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	-	-		-		-		-		-	-	-	-
Remarks N/A Management Service		lillions)		FY:	2016	FY	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:	2016	FY	2017		2018 ase		2018 CO	FY 2018 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	1,683.767	503.325		539.837		391.957	7	-		391.957	-	-	-
Remarks N/A															

Exhibit R-4, RDT&E Schedule	Profile: FY 2018 Missile Defens	e Agency											Date: N	1ay 2	2017			
Appropriation/Budget Activit 0400 / 4	PE	l Progra 060391 gets								Project (Number/Name) MT05 / BMDS Targets Program								
Significant Event Complete ▲ Significant Event Planned △	Milestone Decision Complete ★ Milestone Decision Planned ☆	Element Test Con Element Test Plan					ystem L ystem L						Complete . Planned A					
			FY	2016	3	FY 2	2017	FY	2018	F	Y 2019		FY 2020		FY 202	21	FY 2	202
IRBM Type 1/Type 2 Pre-Ship Readin	ess Review (Ship Set 4)		A															
MRBM Type 3 Pre-Ship Readiness Re	eview (Ship Set 3)		A															L
LV-2 Pre-Ship Readiness Review (Shi	p Set 6)			▲														
ICBM Pre-Ship Readiness Review (Sh	nip Set 1)				A													
MRBM Type 3 Pre-Ship Readiness Re	eview (Ship Set 4)				A													
ARAV-TTO-E (SRBM) Pre-Ship Read	iness Review (Ship Set 1)				A													
ARAV-TTO-E (SRBM) Pre-Ship Read	iness Review (Ship Set 4)				A													
IRBM Type 1/Type 2 Pre-Ship Readin	ess Review (Ship Set 2)					A												
ELRALT Pre-Ship Readiness Review	(Ship Set 2)					A												
ARAV-TTO-E (SRBM) Pre-Ship Read	iness Review (Ship Set 3)						Δ											
IRBM Type 1/Type 2 Pre-Ship Readin	ess Review (Ship Set 5)						Δ											
MRBM Type 3 Pre-Ship Readiness Re	eview (Ship Set 2)						Δ											
IRBM Type 1/Type 2 Pre-Ship Readin	ess Review (Ship Set 6)							Δ										
IRBM Type 1/Type 2 Pre-Ship Readin	ess Review (Ship Set 7)							Δ										
ICBM Pre-Ship Readiness Review (Sh	nip Set 2)								Δ									
MRBM Type 3/Configuration 2 Pre-Sh	ip Readiness Review (Ship Set 5)								Δ									
MRBM Type 1/Type 2 Pre-Ship Readi	ness Review (Ship Set 1)									Δ								
IRBM Type 1/Type 2 Pre-Ship Readin	ess Review (Ship Set 8)									Δ								
IRBM Type 1/Type 2 Pre-Ship Readin	ess Review (Ship Set 9)									Δ								
ARAV-G (SRBM) Pre-Ship Readiness	Review (Ship Set 1)										Δ							
ARAV-G (SRBM) Pre-Ship Readiness	Review (Ship Set 2)										Δ							
MRBM Type 3/Configuration 2 Pre-Sh	ip Readiness Review (Ship Set 6)										Δ							
MRBM Type 1/Type 2 Pre-Ship Readi	ness Review (Ship Set 2)										Δ							
MRBM Type 4-E Pre-Ship Readiness	Review (Ship Set 6)										Δ							

Exhibit R-4, RDT&E Schedul	e Profile: FY 2018 Missile Defens	se Agency										Dat	e: Ma	ay 20)17			
Appropriation/Budget Activi 0400 / 4						nent (Num Illistic Missi						t (Number/Name) BMDS Targets Program						
Significant Event Complete ▲ Milestone Decision Complete ★ Significant Event Planned △ Milestone Decision Planned ☆		Element Test Complete Element Test Planned				System Level Test Complete System Level Test Planned						lete A						
			F١	FY 2016		FY 2017	FY 2018		8	FY 2019		FY 2020		FY 2021		21 FY 2		122
MRBM Type 4-E Pre-Ship Readiness	Review (Ship Set 7)									Δ								
IRBM Type 1/Type 2 Pre-Ship Readi	ness Review (Ship Set 10)											Δ						
MRBM Type 3/Configuration 2 Pre-S	hip Readiness Review (Ship Set 7)											Δ						
MRBM Type 4-E Pre-Ship Readiness	Review (Ship Set 11)												Δ	\top				T
IRBM Type 1/Type 2 Pre-Ship Readi	ness Review (Ship Set 11)												Δ					T
IRBM Type 1/Type 2 Pre-Ship Readi	ness Review (Ship Set 12)													1	Δ			
MRBM Type 3/Configuration 2 Pre-S	hip Readiness Review (Ship Set 8)													1	Δ			T
MRBM Type 1/Type 2 Pre-Ship Read	diness Review (Ship Set 3)														Δ			T
ICBM Pre-Ship Readiness Review (S	hip Set 3)															Δ		
MRBM Type 1/Type 2 Pre-Ship Read	diness Review (Ship Set 4)																Δ	
IRBM Type 1/Type 2 Pre-Ship Readi	ness Review (Ship Set 13)																Δ	
SRBM Type 4-B Pre-Ship Readiness	Review (Ship Set 25)																Δ	
SRBM Type 4-B Pre-Ship Readiness	Review (Ship Set 26)													\top			Δ	T
SRBM Type 4-B Pre-Ship Readiness	Review (Ship Set 27)																Δ	T
IRBM Type 1/Type 2 Pre-Ship Readi	ness Review (Ship Set 14)																	4
ICBM Type 1/Type 2 Pre-Ship Readii	ness Review (Ship Set 4)																	

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

Schedule Details

	Sta	art	End			
Events	Quarter	Year	Quarter	Year		
IRBM Type 1/Type 2 Pre-Ship Readiness Review (Ship Set 4)	1	2016	1	2016		
MRBM Type 3 Pre-Ship Readiness Review (Ship Set 3)	2	2016	2	2016		
LV-2 Pre-Ship Readiness Review (Ship Set 6)	3	2016	3	2016		
ICBM Pre-Ship Readiness Review (Ship Set 1)	4	2016	4	2016		
MRBM Type 3 Pre-Ship Readiness Review (Ship Set 4)	4	2016	4	2016		
ARAV-TTO-E (SRBM) Pre-Ship Readiness Review (Ship Set 1)	4	2016	4	2016		
ARAV-TTO-E (SRBM) Pre-Ship Readiness Review (Ship Set 4)	1	2017	1	2017		
IRBM Type 1/Type 2 Pre-Ship Readiness Review (Ship Set 2)	2	2017	2	2017		
ELRALT Pre-Ship Readiness Review (Ship Set 2)	2	2017	2	2017		
ARAV-TTO-E (SRBM) Pre-Ship Readiness Review (Ship Set 3)	3	2017	3	2017		
IRBM Type 1/Type 2 Pre-Ship Readiness Review (Ship Set 5)	4	2017	4	2017		
MRBM Type 3 Pre-Ship Readiness Review (Ship Set 2)	4	2017	4	2017		
IRBM Type 1/Type 2 Pre-Ship Readiness Review (Ship Set 6)	2	2018	2	2018		
IRBM Type 1/Type 2 Pre-Ship Readiness Review (Ship Set 7)	2	2018	2	2018		
ICBM Pre-Ship Readiness Review (Ship Set 2)	3	2018	3	2018		
MRBM Type 3/Configuration 2 Pre-Ship Readiness Review (Ship Set 5)	4	2018	4	2018		
MRBM Type 1/Type 2 Pre-Ship Readiness Review (Ship Set 1)	1	2019	1	2019		
IRBM Type 1/Type 2 Pre-Ship Readiness Review (Ship Set 8)	1	2019	1	2019		
IRBM Type 1/Type 2 Pre-Ship Readiness Review (Ship Set 9)	1	2019	1	2019		
ARAV-G (SRBM) Pre-Ship Readiness Review (Ship Set 1)	2	2019	2	2019		
ARAV-G (SRBM) Pre-Ship Readiness Review (Ship Set 2)	2	2019	2	2019		
MRBM Type 3/Configuration 2 Pre-Ship Readiness Review (Ship Set 6)	2	2019	2	2019		

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 0603915C / Ballistic Missile Defense Targets	- 3 (umber/Name) IDS Targets Program

	Start		Er	nd
Events	Quarter	Year	Quarter	Year
MRBM Type 1/Type 2 Pre-Ship Readiness Review (Ship Set 2)	3	2019	3	2019
MRBM Type 4-E Pre-Ship Readiness Review (Ship Set 6)	3	2019	3	2019
MRBM Type 4-E Pre-Ship Readiness Review (Ship Set 7)	3	2019	3	2019
IRBM Type 1/Type 2 Pre-Ship Readiness Review (Ship Set 10)	2	2020	2	2020
MRBM Type 3/Configuration 2 Pre-Ship Readiness Review (Ship Set 7)	2	2020	2	2020
MRBM Type 4-E Pre-Ship Readiness Review (Ship Set 11)	3	2020	3	2020
IRBM Type 1/Type 2 Pre-Ship Readiness Review (Ship Set 11)	4	2020	4	2020
IRBM Type 1/Type 2 Pre-Ship Readiness Review (Ship Set 12)	2	2021	2	2021
MRBM Type 3/Configuration 2 Pre-Ship Readiness Review (Ship Set 8)	2	2021	2	2021
MRBM Type 1/Type 2 Pre-Ship Readiness Review (Ship Set 3)	3	2021	3	2021
ICBM Pre-Ship Readiness Review (Ship Set 3)	4	2021	4	2021
MRBM Type 1/Type 2 Pre-Ship Readiness Review (Ship Set 4)	2	2022	2	2022
IRBM Type 1/Type 2 Pre-Ship Readiness Review (Ship Set 13)	2	2022	2	2022
SRBM Type 4-B Pre-Ship Readiness Review (Ship Set 25)	2	2022	2	2022
SRBM Type 4-B Pre-Ship Readiness Review (Ship Set 26)	2	2022	2	2022
SRBM Type 4-B Pre-Ship Readiness Review (Ship Set 27)	2	2022	2	2022
IRBM Type 1/Type 2 Pre-Ship Readiness Review (Ship Set 14)	4	2022	4	2022
ICBM Type 1/Type 2 Pre-Ship Readiness Review (Ship Set 4)	4	2022	4	2022

Exhibit R-2A, RDT&E Project Ju		Date: May 2017										
Appropriation/Budget Activity 0400 / 4		_		t (Number/ ic Missile D		Project (Number/Name) ND40 / Program Wide Support						
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	61.184	14.199	23.739	18.217	-	18.217	17.991	18.658	19.273	20.166	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY2016, FY 2017, and FY 2018 Program Wide Support reflects proportional changes as a result of budget changes to the Ballistic Missile Defense Targets. Funding in the All Prior Years column represents a summary of Prior Years Total Costs for active contracts, Military Interdepartmental Purchase Requests on the R-3.

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	14.199	23.739	18.217
Articles:	-	-	-
Description: N/A			
FY 2016 Accomplishments: N/A			
FY 2017 Plans: N/A			
FY 2018 Plans: N/A			
Accomplishments/Planned Programs Subtotals	14.199	23.739	18.217

PE 0603915C: Ballistic Missile Defense Targets Missile Defense Agency

UNCLASSIFIED

Page 37 of 42 R-1 Line #90

Exhibit R-2A, RDT&E Project Justification: FY 2018 Missile Defense Agence	Date: May 2017	
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603915C I Ballistic Missile Defense Targets	Project (Number/Name) MD40 I 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 **Date:** May 2017 Project (Number/Name) Appropriation/Budget Activity R-1 Program Element (Number/Name) 0400 / 4 PE 0603915C I Ballistic Missile Defense MD40 I Program Wide Support Targets

Support (\$ in Millions)			FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		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 Facilities and Maintenance (MIPR)	MIPR	Various Multi: : AL, CO, CA, VA etc.	19.978	0.399		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Program Wide Support - Agency Facilities and Maintenance (Reqn)	Reqn	Various Multi : AL, CO, CA, VA etc.	0.000	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Program Wide Support - Agency Infrastructure Support (MIPR)	MIPR	Various; Multi : AL, VA	27.237	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Program Wide Support - Agency Infrastructure Support (FFP)	C/FFP	Northrop Grumman; Multi : AL, VA	9.460	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Program Wide Support - Agency Operations Management	Allot	Various; Multi : AL, CA, CO, VA	2.212	2.939	Nov 2015	0.509	Jul 2017	0.364	Jul 2018	-		0.364	Continuing	Continuing	Continuing
Program Wide Support - Agency Operations and Support Services	C/CPFF	Various : Multi:AL, CA, CO, VA	0.000	5.560	Nov 2015	8.029	Aug 2017	10.591	Aug 2018	-		10.591	Continuing	Continuing	Continuing
Program Wide Support - Agency Operations and Support, International, and Materiel and Readiness	MIPR	Various Multi: : AK, AL, CA, CO, HI, VA	0.623	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Program Wide Support - Agency Operations, Sustainment and GPC	Allot	Various, Multi : AL, CO, CA, VA etc	1.674	1.525	Dec 2015	1.500	Sep 2017	1.500	Sep 2018	-		1.500	Continuing	Continuing	Continuing
Program Wide Support - Facilities and Maintenance SRM	MIPR	Various : Multi: AK, AL, CA, VA	0.000	3.776	Jan 2016	13.701	Jan 2017	5.762	Jan 2018	-		5.762	Continuing	Continuing	Continuing
		Subtotal	61.184	14.199		23.739		18.217		-		18.217	-	-	-

Remarks N/A

PE 0603915C: Ballistic Missile Defense Targets Missile Defense Agency

Page 39 of 42

Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Missile Defense Agency										Date:	Date: May 2017		
Appropriation/Budget Activity 0400 / 4					R-1 Program Element (Number/Name) PE 0603915C I Ballistic Missile Defense Targets					Project (Number/Name) MD40 / Program Wide Support			
	Prior Years	FY 2	2016	FY 2	2017	FY 2 Ba		FY 2		FY 2018 Total	Cost To	Total Cost	Target Value of Contract
Project Cost Totals	61.184	14.199		23.739		18.217		-		18.217	-	-	-

Remarks

N/A

Appropriation/Budget Activity 0400 / 4	P	- 1 Program Ele E 0603915C / <i>E</i> argets	•	•	Project (Number/Name) MD40 / Program Wide Support			
Significant Event Complete ▲ Significant Event Planned △	Milestone Decision Complete ★ Milestone Decision Planned ☆	Element Test Co Element Test Pla			evel Test Complete			
MD40 Program-Wide Support			FY 2016	FY 2017	FY 2018	FY 2019	FY 2020 FY 2021	FY 2022

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 0603915C I Ballistic Missile Defense Targets	- , (umber/Name) ogram Wide Support

Schedule Details

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