Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Missile Defense Agency											Date: March 2024	
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 1206895C *I Ballistic Missile Defense System Space Programs*							
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
Total Program Element	655.148	125.695	109.483	119.561	-	119.561	122.691	125.114	44.489	55.956	Continuing	Continuing
MD33: *MD Space Exp Center (MDSEC)*	145.480	29.465	35.367	37.307	-	37.307	39.019	39.814	40.616	51.434	Continuing	Continuing
MD42: *Hypersonic & Ballistic Tracking Space Sensor (HBTSS) Prototyping*	488.029	89.964	68.538	76.027	-	76.027	76.600	78.200	0.000	0.000	0.000	877.358
MC33: *MD Space Exp Center (MDSEC)*	12.539	1.547	1.690	1.759	-	1.759	1.799	1.837	1.873	1.911	Continuing	Continuing
MD40: *Program-Wide Support*	9.100	4.719	3.888	4.468	-	4.468	5.273	5.263	2.000	2.611	Continuing	Continuing
Program MDAP/MAIS Code: 362												

Note

Increase from FY2024 to FY2025 provides for HBTSS testing activities

A. Mission Description and Budget Item Justification

Spacebased Kill Assessment (SKA): The SKA project will deliver dedicated space sensors contributing to hit and kill assessment for Homeland Defense. Missile Defense Agency (MDA) Missile Defense System intercept testing experience provided a solid understanding of kill assessment physics to enable exploration of this critical capability. SKA incorporates Government Accountability Office (GAO) recommendations to examine the operational feasibility of disaggregating large satellites and to provide data for the business case for shared versus dedicated satellite control, including the ground antenna networks. The favorable cost and schedule performance on SKA is also consistent with the GAO's assessment of hosted payload programs. The SKA experiment utilizes a network of small Infrared sensors integrated onto host satellites that while on orbit observe missile defense intercepts and deliver situational awareness hit and kill assessment declarations.

HBTSS: HBTSS will demonstrate a schedule-focused, cost-constrained capability to detect and track hypersonic threats and boosting conventional ballistic missiles. The key characteristic of HBTSS prototype demonstration that sets it apart from other Overhead Persistent Infrared sensors is the requirement to provide fire-control quality tracking data. The enhanced tracking accuracy through missile burn out on ballistic threats and the enhanced tracking accuracy on hypersonic threats will provide the warfighter increased missile defense weapons systems engagement capability and higher accuracy impact predictions. The requirement for fire-control data necessitates that HBTSS be a highly sensitive, low-latency, high quality of service system. Following the successful demonstration of HBTSS capabilities, the responsibility for HBTSS operational fielding will be transferred to the US Space Force and the MDA will continue the development of the next-generation of space-based fire control sensors for missile defense. Operationally, the HBTSS fire-control capability will be part of Space Development Agency's Proliferated Warfighter Space Architecture and will detect hypersonic, ballistic, and other advanced threats much sooner than terrestrial radars, providing hypersonic threat-tracking data for hand off through linked missile defense weapons.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Missile Defense Agency	Date: March 2024
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 1206895C *I Ballistic Missile Defense System Space Programs*

Space Applications for Missile Defense (SAMD): SAMD consolidates MDA resources (including those efforts previously planned in PE 1206893C) to provide strategic planning, program integration, contracting, acquisition, engineering, financial management, and program assessments for development and acquisition of space applications.

This PE also funds Cybersecurity efforts necessary to support Missile Defense System Space Programs.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	129.957	109.483	119.860	-	119.860
Current President's Budget	125.695	109.483	119.561	-	119.561
Total Adjustments	-4.262	0.000	-0.299	-	-0.299
• 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	-2.593	0.000			
• Other Adjustment	-1.669	0.000	-0.299	-	-0.299

Change Summary Explanation

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2025 Missile Defense Agency			Date: March 2024
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 1206895C / *Ballistic Missile Defense System Space Programs*	Project (Number/Name) MD33 / *MD Space Exp Center (MDSEC)*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
MD33: *MD Space Exp Center (MDSEC)*	145.480	29.465	35.367	37.307	-	37.307	39.019	39.814	40.616	51.434	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

N/A

A. Mission Description and Budget Item Justification

The Spacebased Kill Assessment (SKA) system is composed of two segments: a space segment and a ground segment.

The space segment is composed of a network of small infrared sensors (sensors, processor cards and cabling), each mated to a different satellite. The total number of sensors and their network placement are specifically tailored for the hit and kill assessment missions. The space segment includes key design features to improve its resiliency.

The ground segment monitors the health and status of the on-orbit sensors, commands the sensors to perform the hit and kill assessment mission, and analyzes the data to make a hit/kill assessment determination. The ground segment also includes the equipment necessary for communications security and information assurance. The Missile Defense Space Center provides the critical infrastructure for SKA data, routing SKA data between the commercial payload integrator and the multi-mission Missile Defense Space Enterprise Architecture.

Space Applications for Missile Defense (SAMD) is a consolidation of functional elements of Missile Defense Agency Contractor Support Services, Federally Funded Research and Development Center/University Affiliated Research Center, and Civilian manpower into a single entity that provides acquisition, financial, and technical support across the Missile Defense Agency Space Sensors enterprise. This represents a continuation of efforts previously funded in PE 1206893C.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025
Title: Spacebased Kill Assessment	21.546	27.176	28.716
Articles:	-	-	-
Description: The SKA project is designed to deliver hit and kill assessment for Homeland Defense. It includes: - SKA sensor-host satellite integration and testing - On-orbit operations by experimenting and participating in Missile Defense System ground and flight tests - Development of hit and kill assessment algorithms required to provide SKA situational awareness hit assessment			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Missile Defense Agency		Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD33 / *MD Space Exp Center (MDSEC)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025
- Missile Defense Space Enterprise Architecture operations in support of SKA experimentation and testing - Supporting engineering trade studies and concept evaluations for current and future space-based sensors - Provide situational awareness hit assessment to Combatant Command United States Northern Command during declared Periods of Heightened Activity Specific and/or unique accomplishments to each Fiscal Year (FY) are as follows: ***FY 2024 Plans:*** SEE ABOVE ***FY 2025 Plans:*** SEE ABOVE ***FY 2024 to FY 2025 Increase/Decrease Statement:*** N/A			
Title: Space Applications for Missile Defense	7.919	8.191	8.591
Articles:	-	-	-
Description: SAMD provides strategic planning, program integration, contracting, acquisition, engineering, financial management, and program assessments for development and acquisition of space applications Recurring activities include: - Build, develop and acquire Space Applications to support the 10 Steps to Ballistic Missile Intercept - Integration of space data with the Missile Defense System to enhance system capabilities - Coordination with U.S. Space Force on development of Missile Defense space-based capabilities - Provide technical and business management support activities to provide critical program status and decision quality data - Participate in the Space Engineering Review Board - Integration of Space capabilities with the Missile Defense System - Integration of space assets within MDA's Integrated Master Test Plan - Develop and evaluate future Space Application concepts ***FY 2024 Plans:*** SEE ABOVE ***FY 2025 Plans:***			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Missile Defense Agency		Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD33 / *MD Space Exp Center (MDSEC)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025
SEE ABOVE ***FY 2024 to FY 2025 Increase/Decrease Statement:*** N/A			
Accomplishments/Planned Programs Subtotals	29.465	35.367	37.307

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• 0603882C: *Ballistic Missile Defense Midcourse Defense Segment*	670.808	903.633	768.227	-	768.227	856.218	842.985	956.974	1,007.150	Continuing	Continuing
• 0603884C: *Ballistic Missile Defense Sensors*	228.807	239.159	209.002	-	209.002	205.087	202.555	209.816	214.110	Continuing	Continuing
• 0603892C: *AEGIS BMD*	586.329	693.727	649.255	-	649.255	602.818	539.786	649.556	714.388	Continuing	Continuing
• 0603896C: *Ballistic Missile Defense Command and Control, Battle Management & Communication*	587.689	554.201	569.662	-	569.662	570.632	587.929	618.050	651.885	Continuing	Continuing
• 0603904C: *Missile Defense Integration and Operations Center (MDIOC)*	47.629	50.549	54.525	-	54.525	56.851	58.115	59.600	61.362	Continuing	Continuing
• 0603914C: *Ballistic Missile Defense Test*	376.650	360.455	367.491	-	367.491	418.514	383.362	435.626	438.825	Continuing	Continuing
• 0603915C: *Ballistic Missile Defense Targets*	572.380	570.258	604.708	-	604.708	584.070	429.635	515.282	584.771	Continuing	Continuing

Remarks

D. Acquisition Strategy

The SKA priority is to provide situational awareness hit assessment to the warfighter. The SKA efforts would closely align with the MDA Technology Development acquisition life cycle phase. The acquisition strategy includes use of all available acquisition tools to include Military Interdepartmental Purchase Request/Support Agreements, existing contracts, and will competitively award new contracts as appropriate to meet requirements and deliver capabilities. To meet this priority, SKA has developed a body of evidence during Incremental Engineering Technical Review preparations to improve systems engineering and facilitate program and risk management. SKA leverages experience that the Johns Hopkins University Applied Physics Laboratory (JHU/APL) has with its extensive history of performing kill

Exhibit R-2A, RDT&E Project Justification: PB 2025 Missile Defense Agency		Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD33 / *MD Space Exp Center (MDSEC)*

assessment activities and conducting experiments associated with the Aegis Ballistic Missile Defense program. JHU/APL is the developer of the SKA experiment and its primary subcontractor was responsible for payload integration and hosting accommodations using a firm fixed price contract to contain costs. A direct contract has been awarded by MDA to the host integrator to improve communications and oversight. The SKA experiment uses a commercial satellite program as the platform host for a DoD payload, taking full advantage of a multi-billion dollar space and ground system that already exists.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Missile Defense Agency			Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD33 / *MD Space Exp Center (MDSEC)*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Spacebased Kill Assessment - Integrate SKA into Missile Defense System Comms Network & MDSC	Various	Various : Various	1.116	0.000		0.000		0.000		-		0.000	0.000	1.116	1.116
Spacebased Kill Assessment - Software Assurance	MIPR	DEVCOM : AL	0.910	0.000		0.000		0.000		-		0.000	0.000	0.910	0.910
Spacebased Kill Assessment - Transition To Ops (Mission Systems)	C/Various	Various : MDA CO, AL	16.421	0.000		0.000		0.000		-		0.000	0.000	16.421	16.421
Spacebased Kill Assessment - Transition to Ops (Developer)	C/CPFF	JHU/APL : Laurel, MD	17.326	0.000		0.000		0.000		-		0.000	0.000	17.326	17.326
Space Sensor Layer (SSL) - Space Sensor Layer (SSL) - Ground Segment	C/CPIF	Jacobs : Schriever AFB	3.798	0.000		0.000		0.000		-		0.000	0.000	3.798	3.798
Space Sensor Layer (SSL) - Space Sensor Layer (SSL) - Space Prototype Concept Activity	MIPR	SMC SpEC OTA : Various	7.207	0.000		0.000		0.000		-		0.000	0.000	7.207	7.207
		Subtotal	46.778	0.000		0.000		0.000		-		0.000	0.000	46.778	N/A

Remarks

In accordance with the Financial Management Regulation cost category definitions, some items have transferred to appropriate cost categories.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Spacebased Kill Assessment - Civilian Labor	Allot	DOD - MISSILE DEFENSE AGENCY (MDA) CIVILIAN : Various	1.047	0.161	Oct 2022	0.166	Oct 2023	0.179	Oct 2024	-		0.179	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Missile Defense Agency		Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD33 / *MD Space Exp Center (MDSEC)*

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Spacebased Kill Assessment - Contract Support Services (CSS) Various	C/CPFF	Various : Various	4.104	1.632	Nov 2022	2.031	Nov 2023	0.666	Nov 2024	-		0.666	Continuing	Continuing	Continuing
Spacebased Kill Assessment - IT User Services	C/CPIF	JACOBS TECHNOLOGY INC. : Various	0.207	0.670	Nov 2022	0.721	Nov 2023	0.740	Nov 2024	-		0.740	Continuing	Continuing	Continuing
Spacebased Kill Assessment - Spacebased Kill Assessment - Contract Support Services (CSS) Engineering Services	C/CPFF	NTSI LLC : Various	0.000	0.000		0.000		0.988	Nov 2024	-		0.988	Continuing	Continuing	Continuing
Spacebased Kill Assessment - Spacebased Kill Assessment - Development and Experimentation	C/CPIF	JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY LLC, THE : MD	59.362	8.436	Dec 2022	12.550	Oct 2023	11.448	Nov 2024	-		11.448	Continuing	Continuing	Continuing
Spacebased Kill Assessment - Spacebased Kill Assessment - FFRDC/ UARC	Various	Various : Various	4.342	0.895	Nov 2022	0.953	Nov 2023	0.972	Nov 2024	-		0.972	Continuing	Continuing	Continuing
Spacebased Kill Assessment - Spacebased Kill Assessment - Incremental Capability Operations	C/CPIF	JACOBS TECHNOLOGY INC. : CO	9.259	7.894	Nov 2022	6.892	Nov 2023	10.123	Nov 2024	-		10.123	Continuing	Continuing	Continuing
Spacebased Kill Assessment - Spacebased Kill Assessment - Incremental Capability Operations Various	Various	Various : Various	2.453	1.234	Jul 2023	2.857	Dec 2023	2.196	Dec 2024	-		2.196	Continuing	Continuing	Continuing
Spacebased Kill Assessment - Spacebased Kill Assessment - Program Mission Support	C/Various	Various : Various	1.433	0.624	Nov 2022	1.006	Nov 2023	1.404	Nov 2024	-		1.404	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Missile Defense Agency		Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD33 / *MD Space Exp Center (MDSEC)*

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Space Applications for Missile Defense - Civilian Labor	Allot	DOD - MISSILE DEFENSE AGENCY (MDA) CIVILIAN : Various	0.000	3.950	Oct 2022	3.834	Oct 2023	4.116	Oct 2024	-		4.116	Continuing	Continuing	Continuing
Space Sensor Layer (SSL) - Contract Support Services (CSS)	C/CPFF	Various : CO, AL	4.805	0.000		0.000		0.000		-		0.000	0.000	4.805	4.805
Space Sensor Layer (SSL) - FFRDC	MIPR	Various : CA, CO, NM, VA	6.766	0.000		0.000		0.000		-		0.000	0.000	6.766	6.766
Space Sensor Layer (SSL) - MDA Civilian	Allot	MDA : CO, AL	0.744	0.000		0.000		0.000		-		0.000	0.000	0.744	0.744
Space Sensor Layer (SSL) - Program Mission Support	C/Various	Various : CO, AL, VA	0.978	0.000		0.000		0.000		-		0.000	0.000	0.978	0.978
Space Applications for Missile Defense - Space Applications for Missile Defense - Contractor Support Services (CSS) Various and UARC	C/CPFF	Various : Various	0.000	0.000		0.000		0.670	Nov 2024	-		0.670	Continuing	Continuing	Continuing
Space Sensor Layer (SSL) - UARC	C/CPFF	Various : UT, MD	3.202	0.000		0.000		0.000		-		0.000	0.000	3.202	3.202
		Subtotal	98.702	25.496		31.010		33.502		-		33.502	Continuing	Continuing	N/A

Remarks

In accordance with the Financial Management Regulation cost category definitions, some items have transferred to appropriate cost categories.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	-	-		-		-		-		-	-	-	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Missile Defense Agency			Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD33 / *MD Space Exp Center (MDSEC)*	

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract

Remarks

N/A

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Space Applications for Missile Defense - Contractor Support Services (CSS) Engineering Support	C/CPFF	NTSI LLC : Various	0.000	2.737	Nov 2022	2.902	Nov 2023	2.990	Nov 2024	-		2.990	Continuing	Continuing	Continuing
Space Applications for Missile Defense - Space Applications for Missile Defense - Contractor Support Services (CSS) Various and UARC	Various	Various : Various	0.000	1.232	Nov 2022	1.455	Nov 2023	0.815	Nov 2024	-		0.815	Continuing	Continuing	Continuing
		Subtotal	0.000	3.969		4.357		3.805		-		3.805	Continuing	Continuing	N/A

Remarks

N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	145.480	29.465		35.367		37.307		-		37.307	Continuing	Continuing	N/A

Remarks

Award Date reflects date of first obligation. Additional obligations may incrementally occur throughout the year.

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Missile Defense Agency		Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD33 / *MD Space Exp Center (MDSEC)*

Significant Event Complete ▲ Significant Event Planned △ | Milestone Decision Complete ★ Milestone Decision Planned ☆ | Element Test Complete ◆ Element Test Planned ◇ | System Level Test Complete ● System Level Test Planned ○ | Complete Activity ✦ Planned Activity ✧

	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
SKA Operations/Experimentation - 1Q FY 2023 - 4Q FY 2023	✦	✦	✦	✦																								
FTX-26 (OT) (SN, OT Target Only Flight Test)				▲																								
FTG-12 (GM, DT/OT Intercept Flight Test)					▲																							
SKA Operations/Experimentation - 1Q FY 2024 - 4Q FY 2024					✧	✧	✧	✧																				
FTM-37 (AEGIS 5.1, DT/OT Intercept Flight Test)									△																			
SKA Operations/Experimentation - 1Q FY 2025 - 4Q FY 2025									✧	✧	✧	✧																
FTM-30 (AEGIS 5.1, DT/OT Intercept Flight Test)												△																
FTM-43 (AEGIS 5.1, DT/OT Intercept Flight Test)															△													
SKA Operations/Experimentation - 1Q FY 2026 - 4Q FY 2026													✧	✧	✧	✧												
SKA Operations/Experimentation - 1Q FY 2027 - 4Q FY 2027																	✧	✧	✧	✧								
FTT-26 (MRBM T1)																			△									
SKA Operations/Experimentation - 1Q FY 2028 - 4Q FY 2028																					✧	✧	✧	✧				
FTM-47 (MRBM T4 X3/BQM-177 X4)																						△						
FTG-18 (DT/OT)																							△					
SKA Operations/Experimentation - 1Q FY 2029 - 4Q FY 2029																									✧	✧	✧	✧

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Missile Defense Agency		Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD33 / *MD Space Exp Center (MDSEC)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
SKA Operations/Experimentation - 1Q FY 2023 - 4Q FY 2023	1	2023	4	2023
FTX-26 (OT) (SN, OT Target Only Flight Test)	4	2023	4	2023
FTG-12 (GM, DT/OT Intercept Flight Test)	1	2024	1	2024
SKA Operations/Experimentation - 1Q FY 2024 - 4Q FY 2024	1	2024	4	2024
FTM-37 (AEGIS 5.1, DT/OT Intercept Flight Test)	1	2025	1	2025
SKA Operations/Experimentation - 1Q FY 2025 - 4Q FY 2025	1	2025	4	2025
FTM-30 (AEGIS 5.1, DT/OT Intercept Flight Test)	4	2025	4	2025
FTM-43 (AEGIS 5.1, DT/OT Intercept Flight Test)	3	2026	3	2026
SKA Operations/Experimentation - 1Q FY 2026 - 4Q FY 2026	1	2026	4	2026
SKA Operations/Experimentation - 1Q FY 2027 - 4Q FY 2027	1	2027	4	2027
FTT-26 (MRBM T1)	3	2027	3	2027
SKA Operations/Experimentation - 1Q FY 2028 - 4Q FY 2028	1	2028	4	2028
FTM-47 (MRBM T4 X3/BQM-177 X4)	2	2028	2	2028
FTG-18 (DT/OT)	3	2028	3	2028
SKA Operations/Experimentation - 1Q FY 2029 - 4Q FY 2029	1	2029	4	2029

Note

* FTM-37 (AEGIS 5.1, DT/OT Intercept Flight Test) under review

Exhibit R-2A, RDT&E Project Justification: PB 2025 Missile Defense Agency			Date: March 2024
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 1206895C / *Ballistic Missile Defense System Space Programs*	Project (Number/Name) MD42 / *Hypersonic & Ballistic Tracking Space Sensor (HBTSS) Prototyping*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
MD42: *Hypersonic & Ballistic Tracking Space Sensor (HBTSS) Prototyping*	488.029	89.964	68.538	76.027	-	76.027	76.600	78.200	0.000	0.000	0.000	877.358
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Increase from FY2024 to FY2025 provides for HBTSS testing activities

A. Mission Description and Budget Item Justification

HBTSS will demonstrate a resilient, flexible, and global capability to detect and track hypersonic missiles and detect and track ballistic missiles in the boost phase of flight. The fire-control quality tracking data will allow long range engagement of the threat while enhanced tracking accuracy through missile burn out will provide the Warfighting community increased capability in missile defense weapons systems engagement and higher accuracy impact predictions.

The HBTSS prototype demonstration's priority is to maintain the pace of the development schedule given the urgent Warfighter need to address rapidly developing threats. To meet this priority, HBTSS must use high technology readiness level components, take advantage of existing Government capabilities to minimize development, use a management culture that does not slow down the pace of development, and use Other Transaction Authority (OTA) to minimize contracting cycle times. OTAs allow the Government to work with traditional, non-traditional, and new space businesses to identify innovative solutions.

The HBTSS prototype demonstration seeks to demonstrate the ability to meet requirements derived from United States Strategic Command Prioritized Capabilities List, the National Defense Authorization Act for Fiscal Year 2019, and the Joint Requirements Oversight Council Capability Development Document for Missile Warning (MW)/Missile Defense (MD) Overhead Persistent Infrared (OPIR).

The HBTSS developed target detection algorithms and evaluated them in a Signal-chain Processing Demonstration, providing insight into the constellation architecture, communications approach, and preliminary command and control design aspects. These results informed the development of the HBTSS prototype demonstration Space Vehicles (SVs) and demonstrated the ability to detect and track dim targets in a cluttered background along with the sensitivity necessary to support the hypersonic kill chain.

Operationally, the HBTSS fire-control capability will be part of Space Development Agency's Proliferated Warfighter Space Architecture and will detect hypersonic, ballistic, and other advanced threats much sooner than terrestrial radars, providing hypersonic threat-tracking data for hand off through linked missile defense weapons.

After Launch and Early On-Orbit Testing (LEOT), HBTSS will conduct on-orbit testing, utilizing the MDA Integrated Master Test Plan (IMTP), non-IMTP partner flight test events, and Targets of Opportunity to test, characterize and validate the HBTSS performance.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Missile Defense Agency		Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD42 / *Hypersonic & Ballistic Tracking Space Sensor (HBTSS) Prototyping*

Following the successful demonstration of HBTSS capabilities, the responsibility for HBTSS operational fielding will be transferred to the US Space Force and the Missile Defense Agency will continue the development of the next-generation of space-based fire control sensors for missile defense.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025
Title: Hypersonic and Ballistic Tracking Space Sensor (HBTSS)	89.964	68.538	76.027
Articles:	-	-	-
Description: HBTSS is a space-based missile tracking sensor/system program to address Warfighter requirements. The goal of this effort is to develop prototype space sensors to: -Detect and track hypersonic threats as well as boosting conventional ballistic missiles in their boost phase of flight -Support MW/MD mission -Support other missions, as capable -Leverage inherent multi-domain capabilities to provide as-capable support to the OPIR Enterprise Recurring activities include: - Validate and Characterize HBTSS Performance - Complete early orbit test activities and continue on-orbit testing - Conduct daily on-orbit satellite operations - Support the MDA test events - Support test events associated with other organizations - Develop and implement Ground and SV software updates - Conduct Satellite and Ground Segment Sustainment - Conduct HBTSS program management, oversight, and mission support Specific and/or unique accomplishments to each FY are as follows: ***FY 2024 Plans:*** - Complete early orbit test activities and continue on-orbit testing - Conduct daily on-orbit satellite operations - Support the MDA test events - Support test events associated with other organizations - Develop and implement Ground and Space Vehicle software updates ***FY 2025 Plans:*** SEE ABOVE ***FY 2024 to FY 2025 Increase/Decrease Statement:***			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Missile Defense Agency		Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD42 / *Hypersonic & Ballistic Tracking Space Sensor (HBTSS) Prototyping*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025
Increase from FY2024 to FY2025 provides for HBTSS testing activities			
Accomplishments/Planned Programs Subtotals	89.964	68.538	76.027

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• 0603890C: *BMD Enabling Programs*	589.588	597.720	609.406	-	609.406	623.893	625.985	659.983	677.858	Continuing	Continuing
• 0603896C: *Ballistic Missile Defense Command and Control, Battle Management & Communication*	587.689	554.201	569.662	-	569.662	570.632	587.929	618.050	651.885	Continuing	Continuing
• 0604181C: *Hypersonic Defense*	513.267	208.997	182.283	-	182.283	193.100	205.122	250.208	327.698	Continuing	Continuing

Remarks

D. Acquisition Strategy

The HBTSS acquisition approach uses a phased approach to deliver warfighting capability. Each phase has a limited duration, is capability focused, and allows HBTSS to maintain schedule, reduce risk, and add new technology and capabilities when ready. The current acquisition phase consists of competitive prototyping with multiple performers utilizing OTAs. The current phase will result in the launch of the prototype demonstration SVs followed by a two-year on-orbit demonstration period to test, characterize, and validate HBTSS. Following the successful demonstration of HBTSS capabilities, the responsibility for HBTSS operational fielding will be transferred to the U.S. Space Force and the MDA will continue the development of the next-generation of space-based fire control sensors for missile defense.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Missile Defense Agency		Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD42 / *Hypersonic & Ballistic Tracking Space Sensor (HBTSS) Prototyping*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - Component Testing	FFRDC	Lawrence Berkley National Lab : Berkley, CA	0.139	0.062	Dec 2022	0.000		0.000		-		0.000	0.000	0.201	0.201
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - Ground Segment	Various	Various : Various	7.609	0.000		0.000		0.000		-		0.000	0.000	7.609	7.609
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - Ground Segment - Add Sites	C/CPIF	JACOBS TECHNOLOGY INC. : Various	1.175	0.000		0.000		0.000		-		0.000	0.000	1.175	1.175
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - Ground Segment - ESL Integration	C/CPAF	NORTHROP GRUMMAN : AL	2.000	0.000		0.000		0.000		-		0.000	0.000	2.000	2.000
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - Ground Segment - Network Comms	MIPR	DOD - DEFENSE INFORMATION SYSTEMS AGENCY (DISA) : Various	0.166	0.000		0.000		0.000		-		0.000	0.000	0.166	0.166
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - Ground Segment - Sustainment	C/CPIF	JACOBS TECHNOLOGY INC. : CO	50.264	12.758	Nov 2022	0.000		0.000		-		0.000	0.000	63.022	63.022
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - HBTSS - Phase IIb Team 1	C/FFP	L-3 COMMUNICATIONS CORPORATION : IN	116.297	27.785	Nov 2022	20.214	Nov 2023	0.000		-		0.000	0.000	164.296	164.296
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - HBTSS - Phase IIb Team 2	C/FFP	NORTHROP GRUMMAN : CA	147.178	20.251	Nov 2022	20.214	Nov 2023	0.000		-		0.000	0.000	187.643	187.643
Hypersonic and Ballistic Tracking Space Sensor	MIPR	Space Systems Command : CA	105.317	1.336	Jun 2023	0.000		0.000		-		0.000	0.000	106.653	106.653

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Missile Defense Agency			Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD42 / *Hypersonic & Ballistic Tracking Space Sensor (HBTSS) Prototyping*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
(HBTSS) - Launch Services															
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - Launch Services Payload Integration Facility	C/FFP	ASTROTECH SPACE OPERATIONS : FL	1.649	0.000		0.000		0.000		-		0.000	0.000	1.649	1.649
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - Payload Risk Reduction	MIPR	DOD - SPACE DEVELOPMENT AGENCY (SDA) : Huntsville, AL	6.269	0.000		0.000		0.000		-		0.000	0.000	6.269	6.269
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - Phase IIa Team 1	C/FFP	Harris Corporation : Various	3.995	0.000		0.000		0.000		-		0.000	0.000	3.995	3.995
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - Phase IIa Team 2	C/FFP	Leidos : San Diego, CA	3.995	0.000		0.000		0.000		-		0.000	0.000	3.995	3.995
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - Phase IIa Team 3	C/FFP	Northrop Grumman : Los Angeles, CA	4.000	0.000		0.000		0.000		-		0.000	0.000	4.000	4.000
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - Phase IIa Team 4	C/FFP	Raytheon : Los Angeles, CA	3.959	0.000		0.000		0.000		-		0.000	0.000	3.959	3.959
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - Test Campaign Support - Science Team	FFRDC	MASSACHUSETTS INSTITUTE OF TECHNOLOGY : MA	0.875	0.000		0.000		0.000		-		0.000	0.000	0.875	0.875
		Subtotal	454.887	62.192		40.428		0.000		-		0.000	0.000	557.507	N/A

Remarks

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Missile Defense Agency			Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD42 / *Hypersonic & Ballistic Tracking Space Sensor (HBTSS) Prototyping*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - Civilian Labor	Allot	DOD - MISSILE DEFENSE AGENCY (MDA) CIVILIAN : Various	1.852	1.670	Oct 2022	1.399	Oct 2023	1.611	Oct 2024	-		1.611	Continuing	Continuing	Continuing
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - FFRDC/UARC (Legacy Data)	Various	Various : Various	10.274	1.162	Nov 2022	0.000		0.000		-		0.000	0.000	11.436	11.436
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - HBTSS - Contractor Support Services (CSS) Engineering Services	C/CPFF	NTSI LLC : Various	2.753	3.587	Nov 2022	3.569	Nov 2023	3.631	Nov 2024	-		3.631	Continuing	Continuing	Continuing
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - HBTSS - Contractor Support Services (CSS) Various	C/CPFF	Various : Various	6.537	0.267	Nov 2022	1.218	Nov 2023	0.167	Nov 2024	-		0.167	Continuing	Continuing	Continuing
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - HBTSS - FFRDC/UARC Aerospace	FFRDC	DOD - USSF - SPACE SYSTEMS COMMAND (SSC) : CA	3.012	3.336	Nov 2022	3.163	Nov 2023	1.800	Nov 2024	-		1.800	Continuing	Continuing	Continuing
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - HBTSS - FFRDC/UARC MITRE	FFRDC	DOD - USA - COMMUNICATIONS ELECTRONICS COMMAND (CECOM) : CO	0.000	0.000		0.000		0.650	Nov 2024	-		0.650	Continuing	Continuing	Continuing
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - HBTSS - FFRDC/UARC SDL	FFRDC	UTAH STATE UNIVERSITY RESEARCH FOUNDATION : Various	3.742	4.900	Nov 2022	3.562	Nov 2023	3.613	Nov 2024	-		3.613	Continuing	Continuing	Continuing
Hypersonic and Ballistic Tracking Space Sensor	MIPR	DOD - USN - NAVAL RESEARCH	0.000	3.056	Nov 2022	0.000		0.500	Nov 2024	-		0.500	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Missile Defense Agency			Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD42 / *Hypersonic & Ballistic Tracking Space Sensor (HBTSS) Prototyping*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
(HBTSS) - HBTSS - Ground Segment Naval Research Lab		LABORATORY (NRL) : MD													
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - HBTSS - Ground Segment Network Comms	MIPR	DOD - DEFENSE INFORMATION SYSTEMS AGENCY (DISA) : Various	0.000	0.249	Dec 2022	1.000	Nov 2023	0.200	Nov 2024	-		0.200	Continuing	Continuing	Continuing
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - HBTSS - Ground Segment Sustainment	C/CPFF	JACOBS TECHNOLOGY INC. : CO	0.000	0.000		6.250	Nov 2023	8.000	Nov 2024	-		8.000	Continuing	Continuing	Continuing
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - HBTSS - Ground Segment Various	Various	CLASSIFIED PERFORMER : Various	0.000	4.188	Nov 2022	1.200	Nov 2023	6.060	Nov 2024	-		6.060	Continuing	Continuing	Continuing
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - HBTSS - Phase IIb Team 1 On-Orbit Operations	C/FFP	L-3 COMMUNICATIONS CORPORATION : IN	0.000	0.000		0.000		22.175	Nov 2024	-		22.175	Continuing	Continuing	Continuing
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - HBTSS - Phase IIb Team 2 On-Orbit Operations	C/FFP	NORTHROP GRUMMAN : CA	0.000	0.000		0.000		21.570	Nov 2024	-		21.570	Continuing	Continuing	Continuing
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - HBTSS - Program Mission Support	Various	Various : Various	3.607	2.821	Nov 2022	0.632	Nov 2023	3.247	Oct 2024	-		3.247	Continuing	Continuing	Continuing
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - HBTSS - Test Campaign Support	FFRDC	DOD - USAF - AIR FORCE LIFE CYCLE MANAGEMENT	0.000	1.500	Nov 2022	0.000		1.500	Nov 2024	-		1.500	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Missile Defense Agency			Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD42 / *Hypersonic & Ballistic Tracking Space Sensor (HBTSS) Prototyping*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		CENTER (AFLCMC) : MA													
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - HBTSS - Test Campaign Support - Various New	Various	Various : Various	0.000	0.000		5.000	Nov 2023	0.000		-		0.000	0.000	5.000	5.000
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - Threat Tracking Advancements	C/CPFF	NORTHROP GRUMMAN : CO	1.125	0.000		0.000		0.000		-		0.000	0.000	1.125	1.125
		Subtotal	32.902	26.736		26.993		74.724		-		74.724	Continuing	Continuing	N/A

Remarks

N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	-	-		-		-		-		-	-	-	N/A

Remarks

N/A

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - HBTSS - Contractor Support	C/CPFF	Various : Various	0.240	1.036	Nov 2022	1.117	Nov 2023	1.139	Nov 2024	-		1.139	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Missile Defense Agency			Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD42 / *Hypersonic & Ballistic Tracking Space Sensor (HBTSS) Prototyping*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Services (CSS) Acquisition Support															
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) - HBTSS - Contractor Support Services (CSS) Various	C/CPFF	Various : Various	0.000	0.000		0.000		0.164	Nov 2024	-		0.164	Continuing	Continuing	Continuing
		Subtotal	0.240	1.036		1.117		1.303		-		1.303	Continuing	Continuing	N/A

Remarks

N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	488.029	89.964		68.538		76.027		-		76.027	Continuing	Continuing	N/A

Remarks

Award Date reflects date of first obligation. Additional obligations may incrementally occur throughout the year.

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Missile Defense Agency		Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD42 / *Hypersonic & Ballistic Tracking Space Sensor (HBTSS) Prototyping*

Significant Event Complete ▲ Significant Event Planned △ | Milestone Decision Complete ★ Milestone Decision Planned ☆ | Element Test Complete ◆ Element Test Planned ◇ | System Level Test Complete ● System Level Test Planned ○ | Complete Activity ✦ Planned Activity ✧

	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
Payload Assembly/Integration/Test	✦	✦	✦	✦																								
Space Vehicle Assembly/Integration/Test	✧	✧	✧	✧	✧																							
Enterprise Ground Readiness Review (EGRR)						△																						
Pre-Ship Review (PSR)						△																						
Payload Calibration Test Review (PCTR)						△																						
Launch Readiness Review (LRR)						△																						
HBTSS Phase IIb Launch						✧																						
Launch and Early Orbit Test (LEOT)						✧	✧																					
On-Orbit Operations (FY2024)							✧	✧																				
Targets of Opportunity (FY2024)							✧	✧																				
HTB-1							○																					
HTB-2								○																				
Targets of Opportunity (FY2025)									✧	✧	✧	✧																
On-Orbit Operations (FY2025)									✧	✧	✧	✧																
FTX-40 (AEGIS 5.1, DT Tracking Exercise Flight Test)										△																		
On-Orbit Operations (FY2026)													✧	✧	✧	✧												
Targets of Opportunity (FY2026)													✧	✧	✧	✧												
FTM-43 (AEGIS 5.1, DT/OT Intercept Flight Test)															△													
De-Orbit Operations																	✧	✧	✧	✧								

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Missile Defense Agency		Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD42 / *Hypersonic & Ballistic Tracking Space Sensor (HBTSS) Prototyping*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Payload Assembly/Integration/Test	1	2023	4	2023
Space Vehicle Assembly/Integration/Test	1	2023	1	2024
Enterprise Ground Readiness Review (EGRR)	2	2024	2	2024
Pre-Ship Review (PSR)	2	2024	2	2024
Payload Calibration Test Review (PCTR)	2	2024	2	2024
Launch Readiness Review (LRR)	2	2024	2	2024
HBTSS Phase IIb Launch	2	2024	2	2024
Launch and Early Orbit Test (LEOT)	2	2024	3	2024
On-Orbit Operations (FY2024)	3	2024	4	2024
Targets of Opportunity (FY2024)	3	2024	4	2024
HTB-1	3	2024	3	2024
HTB-2	4	2024	4	2024
Targets of Opportunity (FY2025)	1	2025	4	2025
On-Orbit Operations (FY2025)	1	2025	4	2025
FTX-40 (AEGIS 5.1, DT Tracking Exercise Flight Test)	2	2025	2	2025
On-Orbit Operations (FY2026)	1	2026	4	2026
Targets of Opportunity (FY2026)	1	2026	4	2026
FTM-43 (AEGIS 5.1, DT/OT Intercept Flight Test)	3	2026	3	2026
De-Orbit Operations	1	2027	4	2027

Exhibit R-2A, RDT&E Project Justification: PB 2025 Missile Defense Agency			Date: March 2024
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 1206895C / *Ballistic Missile Defense System Space Programs*	Project (Number/Name) MC33 / *MD Space Exp Center (MDSEC)*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
MC33: *MD Space Exp Center (MDSEC)*	12.539	1.547	1.690	1.759	-	1.759	1.799	1.837	1.873	1.911	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

N/A

A. Mission Description and Budget Item Justification

Ballistic Missile Defense System Space Programs Cyber Operations sustain the Missile Defense Agency Risk Management Framework (RMF) and Security Controls Assessments (SCA)/Controls Validation Testing activities, analysis of validation results, risk assessments, and reviews of proposed Program Manager/Information System Security Manager Plans of Action and Milestones (POA&Ms) for Ballistic Missile Defense System Space Program mission systems. Activities in this Project are necessary to comply with the Federal Information Security Management Act.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025
Title: Network / System Certification and Accreditation (C&A)	1.547	1.690	1.759
Articles:	-	-	-

Description: This activity maintains the Assessment and Authorization and C&A data repository, capturing the RMF documentation (artifacts, validation results, and Information Assurance Risk Assessment results, and Designated Approving Authority (DAA) accreditation decisions) and POA&Ms on all MDA information systems. This activity prepares and submits C&A documentation and accreditation recommendations to the MDA Chief Information Officer/Certification Authority and the DAA. Independent Verification and Validation team actions ensure the availability, integrity, authentication, confidentiality, and non-repudiation of the MDA mission, test, and administrative systems. Recurring accomplishments include the following:
- Monitor and track cybersecurity and mitigations detailed in Information Technology security POA&Ms
- Conduct cybersecurity design, engineering, and architecture planning for information technology systems
- Plan and test the cybersecurity controls for space systems
- Conduct SCA testing continuous monitoring of mission systems and provide POA&Ms to mitigate cybersecurity vulnerabilities

Specific and/or unique accomplishments to each FY are as follows:

FY 2024 Plans:
SEE ABOVE

FY 2025 Plans:

Exhibit R-2A, RDT&E Project Justification: PB 2025 Missile Defense Agency		Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MC33 / *MD Space Exp Center (MDSEC)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025
SEE ABOVE ***FY 2024 to FY 2025 Increase/Decrease Statement:*** N/A			
Accomplishments/Planned Programs Subtotals	1.547	1.690	1.759

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Missile Defense Agency		Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MC33 / *MD Space Exp Center (MDSEC)*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Network / System Certification and Accreditation (C&A) - CORE Upgrade	C/CPAF	Northrop Grumman : Schriever AFB, CO	1.157	0.000		0.000		0.000		-		0.000	0.000	1.157	1.157
Network / System Certification and Accreditation (C&A) - MDSEA Solutions	C/CPIF	Jacobs : Schriever AFB, CO	3.471	0.000		0.000		0.000		-		0.000	0.000	3.471	3.471
Network / System Certification and Accreditation (C&A) - Network/Comm Assurance	Various	Various : Various	1.813	0.000		0.000		0.000		-		0.000	0.000	1.813	1.813
Network / System Certification and Accreditation (C&A) - SKA Communications	C/CPFF	JHU/APL : MD	0.360	0.000		0.000		0.000		-		0.000	0.000	0.360	0.360
Network / System Certification and Accreditation (C&A) - Strengthening Risk Management Framework	C/CPAF	Northrop Grumman, Various : Schriever AFB, CO	1.940	0.000		0.000		0.000		-		0.000	0.000	1.940	1.940
		Subtotal	8.741	0.000		0.000		0.000		-		0.000	0.000	8.741	N/A

Remarks

In accordance with the Financial Management Regulation cost category definitions, Network / System C&A CSS has transferred to appropriate cost categories.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Network / System Certification and Accreditation (C&A) - Civilian Labor	Allot	DOD - MISSILE DEFENSE AGENCY (MDA) CIVILIAN : Various	0.000	0.413	Oct 2022	0.335	Oct 2023	0.358	Oct 2024	-		0.358	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Missile Defense Agency			Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MC33 / *MD Space Exp Center (MDSEC)*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Network / System Certification and Accreditation (C&A) - Contractor Support Services (CSS)	C/CPFF	Various : Various	3.798	1.134	Nov 2022	1.355	Nov 2023	1.401	Nov 2024	-		1.401	Continuing	Continuing	Continuing
		Subtotal	3.798	1.547		1.690		1.759		-		1.759	Continuing	Continuing	N/A

Remarks

In accordance with the Financial Management Regulation cost category definitions, Network / System C&A CSS has transferred to appropriate cost categories.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	-	-		-		-		-		-	-	-	N/A

Remarks

N/A

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	-	-		-		-		-		-	-	-	N/A

Remarks

N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	12.539	1.547		1.690		1.759		-		1.759	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Missile Defense Agency			Date: March 2024
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 1206895C / *Ballistic Missile Defense System Space Programs*	Project (Number/Name) MC33 / *MD Space Exp Center (MDSEC)*	

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract

Remarks

Award Date reflects date of first obligation. Additional obligations may incrementally occur throughout the year.

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Missile Defense Agency		Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MC33 / *MD Space Exp Center (MDSEC)*

Significant Event Complete ▲ | Significant Event Planned △ | Milestone Decision Complete ★ | Milestone Decision Planned ☆ | Element Test Complete ◆ | Element Test Planned ◇ | System Level Test Complete ● | System Level Test Planned ○ | Complete Activity ✦ | Planned Activity ✧

	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
MC33 Cyber Operations Planned	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Missile Defense Agency		Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MC33 / *MD Space Exp Center (MDSEC)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
MC33 Cyber Operations Planned	1	2023	4	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Missile Defense Agency			Date: March 2024
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 1206895C / *Ballistic Missile Defense System Space Programs*	Project (Number/Name) MD40 / *Program-Wide Support*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
MD40: *Program-Wide Support*	9.100	4.719	3.888	4.468	-	4.468	5.273	5.263	2.000	2.611	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Program Wide Support (PWS) is allocated on a pro-rata basis across multiple Agency Program Elements (PE) each fiscal year based on the total Agency budget, and therefore fluctuates per PE by fiscal year.

A. Mission Description and Budget Item Justification

PWS contains non-headquarters management costs in support of MDA functions and activities across the entire Missile Defense System. These functions include Government Civilians and Contract Support Services. This effort provides integrity and oversight of the Missile Defense System as well as supports MDA in the development and evaluation of technologies that will respond to the changing threat. Additionally, PWS includes personnel to support global deployments performing deployment site preparation and activation, and provides facility capabilities for MDA Executing Agent locations worldwide. Other MDA wide costs include: 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 across multiple geographic locations; commercial and ancillary facility services; management of all facility aspects regardless of lifecycle stage; supplies and maintenance; compliance with statutory environmental requirements; data and unified communications support; materiel and readiness and central property management of equipment; Facilities Sustainment, Restoration and Modernization (FSRM) program (formerly Real Property Maintenance) to keep the Department's inventory of facilities in good working order; and similar operating expenses. PWS is allocated on a pro-rata basis across most Agency PEs and therefore fluctuates per PE by fiscal year based on the total Agency budget in that fiscal year.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025
Title: Program Wide Support	4.719	3.888	4.468
Articles:	-	-	-
Description: PWS contains non-headquarters management costs in support of MDA functions and activities across the entire Missile Defense System. These functions include Government Civilians and Contract Support Services. This effort provides integrity and oversight of the Missile Defense System as well as supports MDA in the development and evaluation of technologies that will respond to the changing threat. Additionally, PWS includes personnel to support global deployments performing deployment site preparation and activation, and provides facility capabilities for MDA Executing Agent locations worldwide. Other MDA wide costs include: 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 across multiple geographic locations; commercial and ancillary facility services; management of all facility aspects regardless of lifecycle stage; supplies and maintenance; compliance with statutory environmental requirements; data and unified communications support; materiel and readiness and central property			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Missile Defense Agency		Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD40 / *Program-Wide Support*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025
management of equipment; Facilities Sustainment, Restoration and Modernization (FSRM) program (formerly Real Property Maintenance) to keep the Department's inventory of facilities in good working order; and similar operating expenses. PWS is allocated on a pro-rata basis across most Agency PEs and therefore fluctuates per PE by fiscal year based on the total Agency budget in that fiscal year. ***FY 2024 Plans:*** - SEE ABOVE. ***FY 2025 Plans:*** - SEE ABOVE. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase from FY 2024 to FY 2025 provides the PWS allocation on a pro-rata basis across multiple Agency PEs each fiscal year based on the total Agency budget, and therefore fluctuates per PE by fiscal year.			
Accomplishments/Planned Programs Subtotals	4.719	3.888	4.468

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

The acquisition strategy for MDA Consolidated Support consists of contract actions to industry for: a) Engineering and technical support; b) studies, analyses, and evaluations; and c) management and professional services to MDA functional organizations and program offices. With a focus to achieve Small Business goals, MDA is leveraging existing contracts and will competitively award new contracts to meet MDA's Fiscal Years 2020-2030 Advisory and Assistance Services support.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Missile Defense Agency			Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD40 / *Program-Wide Support*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Wide Support - Agency Facilities and Maintenance	MIPR	Army Corps of Engineers : Multi: AL, CA, CO, VA	0.394	2.202	Nov 2022	1.255	Nov 2023	0.000		-		0.000	0.000	3.851	0.000
Program Wide Support - Agency Facilities and Maintenance SRM	MIPR	Army Corps of Engineers : Multi: AK, AL, CA, CO, HI, NY, VA	0.029	1.575	Nov 2022	2.633	Nov 2023	1.702	Nov 2024	-		1.702	Continuing	Continuing	Continuing
Program Wide Support - Agency Operations Management	C/CPAF	Various Multi: AL, CA, : CO, VA	0.080	0.000		0.000		0.000		-		0.000	0.000	0.080	0.000
Program Wide Support - Agency Operations and Support Civilian Salaries, Travel, Training	Allot	DOD - MISSILE DEFENSE AGENCY (MDA) : Various	0.000	0.240	Nov 2022	0.000		0.000		-		0.000	0.000	0.240	0.000
Program Wide Support - Agency Operations and Support Other Agency Services	MIPR	Various : Multi: AK, AL, CO, CA, HI, MD, VA	0.380	0.000		0.000		0.000		-		0.000	0.000	0.380	0.000
Program Wide Support - Agency Operations and Support Services	MIPR	DOD - WASHINGTON HEADQUARTERS SERVICES (WHS) : VA	8.217	0.538	Dec 2022	0.000		0.000		-		0.000	0.000	8.755	0.000
Program Wide Support - Agency Operations and Support Services #3	MIPR	Army Corps of Engineers/ Huntsville : Various	0.000	0.094	Nov 2022	0.000		1.135	Nov 2024	-		1.135	Continuing	Continuing	Continuing
Program Wide Support - Agency Operations, Sustainment and GPC	C/CPIF	JACOBS TECHNOLOGY INC. : Multi: AK, AL, CA, HI, NY, VA	0.000	0.070	Nov 2022	0.000		1.631	Nov 2024	-		1.631	Continuing	Continuing	Continuing
		Subtotal	9.100	4.719		3.888		4.468		-		4.468	Continuing	Continuing	N/A

Remarks

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Missile Defense Agency			Date: March 2024
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 1206895C / *Ballistic Missile Defense System Space Programs*	Project (Number/Name) MD40 / *Program-Wide Support*	

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	9.100	4.719		3.888		4.468		-		4.468	Continuing	Continuing	N/A

Remarks

Award Date reflects date of first obligation. Additional obligations may incrementally occur throughout the year.

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Missile Defense Agency		Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD40 / *Program-Wide Support*

Significant Event Complete ▲ Significant Event Planned △ | Milestone Decision Complete ★ Milestone Decision Planned ☆ | Element Test Complete ◆ Element Test Planned ◇ | System Level Test Complete ● System Level Test Planned ○ | Complete Activity ✦ Planned Activity ✧

	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
MD40 Program-Wide Support	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Missile Defense Agency		Date: March 2024
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 1206895C / *Ballistic Missile Defense System Space Programs*	**Project (Number/Name)** MD40 / *Program-Wide Support*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
MD40 Program-Wide Support	1	2023	4	2029