Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Missile Defense Agency											Date: April 2022	
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 0604887C *I Ballistic Missile Defense Midcourse Defense Segment Test*							
COST ($ in Millions)	**Prior Years**	**FY 2021**	**FY 2022**	**FY 2023 Base**	**FY 2023 OCO**	**FY 2023 Total**	**FY 2024**	**FY 2025**	**FY 2026**	**FY 2027**	**Cost To Complete**	**Total Cost**
Total Program Element	448.798	67.071	61.424	84.075	-	84.075	73.920	68.490	95.223	191.476	Continuing	Continuing
MT08: *Midcourse Test*	433.177	64.407	59.503	80.114	-	80.114	71.565	66.320	92.022	185.371	Continuing	Continuing
MD40: *Program Wide Support*	15.621	2.664	1.921	3.961	-	3.961	2.355	2.170	3.201	6.105	Continuing	Continuing
Program MDAP/MAIS Code: 362												

Note

The increase from FY 2022 to FY 2023 is in accordance with the current Missile Defense System (MDS) Integrated Master Test Plan (IMTP). In addition, FY 2023 includes an increase that enables smooth transition for flight, ground, and cyber testing from the Development & Sustainment Contract to the System Integration, Test, and Readiness contract and will end once transition is complete.

A. Mission Description and Budget Item Justification

Ballistic Missile Defense Midcourse Defense Segment (BMDS) Test provides flight, ground, and cyber testing of Ground Based Midcourse Defense (GMD) functionality to demonstrate Homeland Defense capabilities against allocated threats. The GMD Element is tested in an integrated environment with MDS sensors; Command and Control, Battle Management, and Communications; Warfighters; and national collection assets to assess the ability to defend the United States and its territories against ballistic missiles.

Primary activities include GMD Flight Test Execution, Ground Test Execution, Cyber Test Execution, Resources, and Program Operations. BMDS Test provides day-to-day operations of the GMD Test program to include engineering support for test planning, execution, and post-event reconstruction. GMD flight tests provide the opportunity to test actual hardware and to demonstrate MDS Element interoperability under operationally realistic conditions. GMD ground tests are executed both in the Hardware-in-the-Loop (HWIL) lab environment and in the field, and provide performance assessments for GMD fielding decisions. GMD cyber tests are executed both in the HWIL lab environment and in the field, and provide GMD cyber, operational resilience, and system survivability assessments. GMD Test Resources provides the infrastructure, laboratories, and prime contractor program management to support the GMD Test program. Program Operations provides for government management and support of the GMD Test program.

Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Missile Defense Agency	Date: April 2022
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 0604887C *I Ballistic Missile Defense Midcourse Defense Segment Test*

B. Program Change Summary ($ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	67.071	61.424	0.000	-	0.000
Current President's Budget	67.071	61.424	84.075	-	84.075
Total Adjustments	0.000	0.000	84.075	-	84.075
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Missile Defeat and Defense Enhancement	0.000	0.000	0.000	-	0.000
• Other Adjustment	0.000	0.000	84.075	-	84.075

Change Summary Explanation

FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

Exhibit R-2A, RDT&E Project Justification: PB 2023 Missile Defense Agency			Date: April 2022
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604887C / *Ballistic Missile Defense Midcourse Defense Segment Test*	Project (Number/Name) MT08 / *Midcourse Test*	

COST ($ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
MT08: *Midcourse Test*	433.177	64.407	59.503	80.114	-	80.114	71.565	66.320	92.022	185.371	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

The increase from FY 2022 to FY 2023 is in accordance with the current Missile Defense System Integrated Master Test Plan (IMTP) including FTG-12. In addition, FY 2023 includes an increase that enables smooth transition for flight, ground, and cyber testing from the Development & Sustainment Contract (DSC) to the System Integration, Test, & Readiness (SITR) contract and will end once transition is complete.

A. Mission Description and Budget Item Justification

Ballistic Missile Defense Midcourse Defense Segment (BMDS) Test provides flight, ground, and cyber testing of Ground Based Midcourse Defense (GMD) functionality to demonstrate Homeland Defense capabilities against allocated threats. The GMD Element is tested in an integrated environment with MDS sensors; Command and Control, Battle Management, and Communications; Warfighters; and national collection assets to assess the ability to defend the United States and its territories against ballistic missiles.

Primary activities include GMD Flight Test Execution, Ground Test Execution, Cyber Test Execution, Resources, and Program Operations. BMDS Test provides day-to-day operations of the GMD Test program to include engineering support for test planning, execution, and post-event reconstruction. GMD flight tests provide the opportunity to test actual hardware and to demonstrate MDS Element interoperability under operationally realistic conditions. GMD ground tests are executed both in the Hardware-in-the-Loop (HWIL) lab environment and in the field, and provide performance assessments for GMD fielding decisions. GMD cyber tests are executed both in the HWIL lab environment and in the field, and provide GMD cyber, operational resilience, and system survivability assessments. GMD Test Resources provides the infrastructure, laboratories, and prime contractor program management to support the GMD Test program. Program Operations provides for government management and support of the GMD Test program.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023
Title: Resources	36.025	19.583	19.272
Articles:	-	-	-
Description: Provides day-to-day operations of the GMD Test program to include engineering support for test planning, execution, and post-event reconstruction. Recurring efforts include: -Provide GMD System Test Laboratory environments to support hardware and software testing prior to entry into MDS level tests -Provide infrastructure and support for execution of tests requested by the Warfighter to enhance doctrine and Tactics, Techniques and Procedures (TTP), and tests of opportunity presented by real world events and MDS/external test activities			

Exhibit R-2A, RDT&E Project Justification: PB 2023 Missile Defense Agency		Date: April 2022
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 0604887C / *Ballistic Missile Defense Midcourse Defense Segment Test*	**Project (Number/Name)** MT08 / *Midcourse Test*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023
-Provides test infrastructure and coordination of flight test range support from Vandenberg Space Force Base (VSFB), California, for all range activities, engineering, operators, and Ground Based Interceptor (GBI) transportation -Provides command and control and situational awareness for the GMD test events at the Missile Defense Agency (MDA) Integration and Operations Center (MDIOC) in Colorado Springs, Colorado and the Readiness and Control Facility in Ft. Greely, Alaska -Provides test communication plans, test communication control, satellite communication bandwidth, test network certification, and accreditation for GMD tests to integrate the range in VSFB, California, MDIOC in Colorado Springs, Colorado, Ft. Greely, Alaska, and Pacific Missile Range Facility (PMRF) in Hawaii -Provides engineering, operations, and maintenance of the integrated System Test Labs in Huntsville, Alabama, to conduct MDS flight test pre-mission risk reduction and MDS level ground testing for fielding Warfighter capabilities that defend the Homeland -Provides operations and maintenance and equipment upgrades of the Prime Consolidated Integration Lab (PCIL) in Huntsville, Alabama to support flight test pre-mission risk reduction and post-flight reconstruction -Provides PCIL Confidence Testing for models and simulations used for evaluation of performance of GMD Homeland Defense capabilities -Provides equipment upgrades at VSFB and the MDIOC for test support systems Specific and/or unique accomplishments to each FY are as follows: ***FY 2022 Plans:*** -Provide the infrastructure and support for post flight reconstruction and post flight analysis for the GM BVT-03, GT-08 MDS ground tests, and cybersecurity tests for data collection to support performance evaluation of GMD Increment 6 homeland defense capabilities ***FY 2023 Plans:*** -Provide the infrastructure and support for FTG-12, MDS ground tests, and cyber test execution and data collection to support performance evaluation of GMD Increment 6 Homeland Defense capabilities -Provide prime contract program management of the SITR contract test activities and enable smooth transition for flight, ground, and cyber testing from the DSC to the SITR contract. ***FY 2022 to FY 2023 Increase/Decrease Statement:*** N/A			
Title: Flight Test Execution	7.221	7.249	48.110
Articles:	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2023 Missile Defense Agency		Date: April 2022
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 0604887C / *Ballistic Missile Defense Midcourse Defense Segment Test*	**Project (Number/Name)** MT08 / *Midcourse Test*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023
Description: Flight tests demonstrate the capabilities and/or phenomenology that cannot be adequately tested or obtained during ground testing. Flight tests also provide opportunities to test actual hardware and to demonstrate MDS Element interoperability under operationally realistic conditions. This accomplishment area provides the Industry and Government personnel for planning, integration, execution, and analysis for MDS Homeland Defense flight tests. Specific and/or unique accomplishments to each FY are as follows: ***FY 2022 Plans:*** -Conduct post flight reconstruction and post-mission analysis for GM BVT-03. This flight test mission demonstrates the 2- or 3-Stage selectable boost vehicle software capability that provides additional engagement battlespace to the warfighter. This test will utilize a previously fielded Configuration 1 (C1) Booster with a Mass Modal Unit launched from VSFB, California. -Conduct initial planning for Flight Test GMD (FTG)-12. This flight test mission demonstrate MDS Increment 6B.2 and Increment 6C/7 Homeland Defense functionality upgrades in a GMD intercept flight test using a GBI with a 2-/3-Stage Selectable C2 Booster and a Capability Enhancement II (CE-II) Block 1 Exo-Atmospheric Kill Vehicle (EKV) in an engagement of an Intermediate Range Ballistic Missile (IRBM) with Countermeasures (CMs) launched from VSFB, California. -Support planning, integration and execution for Flight Test Other (FTX)-26 using the GMD Fire Control (GFC). This is a non-intercept operational flight test demonstrating Long Range Discrimination Radar capabilities in MDS Phased Implementation Plan Increment 6B.1. ***FY 2023 Plans:*** -Conduct execution of FTG-12. This flight test mission demonstrates MDS Increment 6B Homeland Defense functionality upgrades in a GMD intercept flight test using a GBI with a 2-/3-Stage Selectable Configuration 2 (C2) Booster and a CE-II Block 1 EKV in an engagement of an IRBM with CMs launched from VSFB, California. ***FY 2022 to FY 2023 Increase/Decrease Statement:*** The increase from FY 2022 to FY 2023 is in accordance with the current IMTP, including FTG-12.			
Title: Ground Test Execution	10.259	24.113	3.899
Articles:	-	-	-
Description: Ground tests demonstrate and validate Warfighter TTPs and provide performance assessments for fielding decisions. Ground tests are executed both in the Hardware-in-the-loop (HWIL) lab and in the field. HWIL lab tests integrate and assess MDS level performance based on new Element capabilities. Ground tests in the field use existing fielded Element assets and tactical communication networks, to integrate, assess and demonstrate the Element capabilities. Cyber tests provide cyber resiliency capabilities and vulnerabilities assessments. This accomplishment area provides the Industry and Government personnel for planning, integration, execution, and analysis for MDS Homeland Defense ground and cyber tests.			

Exhibit R-2A, RDT&E Project Justification: PB 2023 Missile Defense Agency		Date: April 2022
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 0604887C / *Ballistic Missile Defense Midcourse Defense Segment Test*	**Project (Number/Name)** MT08 / *Midcourse Test*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023
Specific and/or unique accomplishments to each FY are as follows: ***FY 2022 Plans:*** -Conduct pre-mission analysis, integration and execution and post-mission analysis for Cybersecurity Test events to support MDS weapon system fielding and operational acceptance -Conduct pre-mission analysis, integration and execution and post-mission analysis of GTI-08a (N/I) for Operational Assessment (OA) of performance for Inc 6B.1 Operational Capability. This event provides data to support fielding for the MDS Inc 6B.1 capability which includes EKV 11 with improved discrimination capability and Space-based Kill Assessment (SKA) -Conduct pre-mission analysis of GTD-08a (N/I) for OA of performance for Inc 6B.1 Operational Capability. This event provides data to support fielding for the MDS Inc 6B.1 capability which includes EKV 11 with improved discrimination capability and SKA -Support and participate in the MDA transition to the new IMTP future ground test Concept of Operations (CONOPs) approach. This approach supports more agile fielding as components of the MDS are ready to integrate and test than conducting a single major test event when all MDS components are ready ***FY 2023 Plans:*** -Conduct pre-mission analysis, integration, execution and post-mission analysis for Cyber Test events to support MDS weapon system fielding and operational acceptance -Conduct pre-mission analysis, integration and execution and post-mission analysis of GTI-08b (N/I) for Operational Assessment (OA) of performance for Increment 6B.2 Operational Capability. This event provides data to support fielding for the MDS Increment 6B.2 capability which includes EKV 11 with improved discrimination capability and Space-based Kill Assessment (SKA) -Conduct pre-mission analysis of GTD-08b (N/I) for OA of performance for Increment 6B.2 Operational Capability. This event provides data to support fielding for the MDS Increment 6B.2 capability which includes EKV 11 with improved discrimination capability and SKA -Support and participate in the continued MDA transition to the new IMTP future ground test CONOPs approach. This approach supports more agile fielding, as components of the MDS are ready to integrate and test, than conducting a single major test event when all MDS components are ready ***FY 2022 to FY 2023 Increase/Decrease Statement:*** The decrease from FY 2022 to FY 2023 is in accordance with the current IMTP.			
Title: Program Operations	10.902	8.558	8.833
Articles:	-	-	-
Description: Program Operations provides for Government management of the GMD Test program. This effort includes program and business management support activities, financial management, cost and schedule performance analyses, cost estimation			

Exhibit R-2A, RDT&E Project Justification: PB 2023 Missile Defense Agency		Date: April 2022
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 0604887C / *Ballistic Missile Defense Midcourse Defense Segment Test*	**Project (Number/Name)** MT08 / *Midcourse Test*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023
and analyses, configuration management, and integration. It also includes activities to provide critical program status and decision quality data and GMD test program compliance with internal and external direction, policies, and regulations to deliver critical capability within a consistent and disciplined process and technical and testing oversight, quality/safety/mission assurance, integrated logistics support, and government manpower and infrastructure to test the GMD system and components. ***FY 2022 Plans:*** - SEE ABOVE. ***FY 2023 Plans:*** - SEE ABOVE ***FY 2022 to FY 2023 Increase/Decrease Statement:*** N/A			
Accomplishments/Planned Programs Subtotals	64.407	59.503	80.114

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
• 0208866C: MD08: *GMD Procurement*	150.000	0.000	11.300	-	11.300	0.000	18.403	42.725	48.866	Continuing	Continuing
• 0208866C: MD08: *Midcourse Defense O&M*	148.741	156.623	185.564	-	185.564	199.248	204.864	188.486	186.647	Continuing	Continuing
• 0603882C: *Ballistic Missile Defense Midcourse Defense Segment*	1,195.853	724.028	667.524	-	667.524	870.817	802.617	781.973	765.733	Continuing	Continuing
• 0604874C: *Improved Homeland Defense Interceptors*	843.899	884.125	1,833.357	-	1,833.357	2,104.382	2,232.025	1,448.632	1,358.561	Continuing	Continuing

Remarks

D. Acquisition Strategy

The GMD program will continue to follow testing, development, and evolutionary acquisition through incremental development. The Agency acquisition strategy ensures GMD components are upgraded to improve both GMD Component performance and GMD Element performance in order to retain the proven GMD contribution to the integrated MDS. This acquisition approach reduces obsolescence risk, provides opportunities for incremental capability improvements, and allows decision makers to make informed trades between cost, schedule, and performance while exploring improved operational and technological capabilities.

Exhibit R-2A, RDT&E Project Justification: PB 2023 Missile Defense Agency		Date: April 2022
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 0604887C / *Ballistic Missile Defense Midcourse Defense Segment Test*	**Project (Number/Name)** MT08 / *Midcourse Test*

GMD awarded a competitive DSC on December 30, 2011. This contract included development, fielding, test, systems engineering, integration, and configuration management; equipment manufacturing and upgrade; training, operations, and sustainment of the GMD Element and associated support facilities. On January 31, 2018, the DSC Extension was awarded to the Boeing Company with a period of performance through 1Q FY 2024. The DSC Extension includes supporting test, engineering, software, and performance based logistics scope. The DSC structure breaks out major efforts into separate Contract Line Item Numbers with individual incentives for management insight, accounting, and property accountability.

The current DSC prime contractor is responsible for the entirety of the GMD scope through delivery of MDS Increment 6B. GMD's current DSC period of performance ends in December 2023 for general scope with minimal development and program oversight contract line items remaining open past December 2023 to allow the prime contractor to complete the delivery of MDS Increment 6B in 2024. Boeing executes the DSC with four major subcontractors: Northrop Grumman Mission Systems, Northrop Grumman Innovation Solutions, Raytheon Missile Systems, and Vigor, and many other minor subcontractors.

The GMD Future Acquisition Strategy will satisfy future GMD Element requirements beyond DSCs support, and will initiate and execute concurrently while the DSC scope is completing.

GMD Future Acquisition Strategy:
MDA plans to competitively award a single SITR contract to provide, along with the Technical Direction Agent, a synergistic approach in executing the GMD Element-level engineering, integration, test, and readiness of the GMD Weapon System. The SITR contractor is charged with being the Government's technical partner for day-to-day operation and sustainment of the GMD Weapon System alongside the United States Northern Command Warfighters. While the Government maintains overall authority, the SITR contractor will assume a technical role responsible for ensuring overall GMD integration including physical and logical integration of the GMD Components, GMD Element, and MDA enterprise level integration, planning and execution of all necessary testing to verify and validate overall requirements compliance.

MDA plans to competitively award a single GMD Weapon System (GWS) contract to provide design, development, production, product level testing, sustainment planning, and deployment of new capabilities for the Weapon System. The GWS contractor will be responsible for developing weapon system solutions, including fire control and communication systems improvements, required to update the legacy system to remain effective while Next Generation Interceptor (NGI)is under development, as well as, preparing for the seamless introduction of NGI and other future MDS capabilities. The GWS contract will update the system interface for the addition of NGIs to the fleet, provide the Warfighter capability to operate the GWS with a mixed fleet of GBIs and NGIs, and identify and develop solutions for message exchanges between GWS and in-flight kill vehicles. All of this must be accomplished while maintaining a robust cyber defense network capable of detecting and defending against current and future cybersecurity threats.

MDA has awarded/plans to award sole source contracts to the GMDs GBI in-service fleet (ISF) original equipment manufacturers to perform service life extensions and maintain the existing fleet, execute repairs, and develop software. These contracts are intended primarily to ensure fleet viability until replacement interceptors (NGI) are fielded. ISF is constrained to the legacy interceptor fleet and its component boosters and kill vehicles. The Boost Vehicle Sustainment Contract was awarded to Northrop Grumman in September 2021. The EKV Sustainment Contract is planned for award in 2Q FY 2022. The GBI Integration and Test Contract is planned for award in 1Q FY2024.

Exhibit R-2A, RDT&E Project Justification: PB 2023 Missile Defense Agency		Date: April 2022
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 0604887C / *Ballistic Missile Defense Midcourse Defense Segment Test*	**Project (Number/Name)** MT08 / *Midcourse Test*

MDA competitively awarded two best value contracts on March 24, 2021 for the development of NGI and plans to maintain competition through the Critical Design Review in FY 2025 to reduce technical risk, drive industry behavior(s) through retention of a competitive environment throughout early design development activities, secure competitive production pricing, and support the Department's ability to field a system capable of negating the expanded threat.

GMD Increment 6C, 10, and 11 will be executed with the SITR and GWS contracts. Both contracts are expected to be awarded NLT 4Q FY 2022.

GMD has implemented a robust Program Board structure allowing more Government insight and decisions into the technical baseline and has changed business processes for greater Government involvement in program decisions. In addition, GMD utilizes Government laboratory modeling and simulation and analysis capabilities to augment the current DSC efforts. These efforts utilize existing MDA and Other Government Agency competitively awarded contracts with the COLSA Corporation, VSFB, CA, MDIOC, U.S. Army Combat Capabilities Development Command Aviation & Missile Center (formerly known as U.S. Army Aviation and Missile Research, Development and Engineering Center), and Pacific Missile Range Facility in Hawaii.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Missile Defense Agency		Date: April 2022
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 0604887C / *Ballistic Missile Defense Midcourse Defense Segment Test*	**Project (Number/Name)** MT08 / *Midcourse Test*

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Resources - Prime Infrastructure Support, Labs, and Communications - SITR	C/TBD	TBD : TBD	0.000	0.000		0.000		0.680	Nov 2022	-		0.680	Continuing	Continuing	Continuing
Program Operations - Civilian Travel (MDA)	Allot	MDA : AL	0.000	0.261	Oct 2020	0.125	Oct 2021	0.268	Oct 2022	-		0.268	Continuing	Continuing	Continuing
Program Operations - Contract Support Services	C/CPFF	Various AL/AK/ : CA/ CO/VA	22.715	5.849	Oct 2020	0.000		0.000		-		0.000	0.000	28.564	0.000
Program Operations - Government Civilian Salaries	Allot	MDA AL/ : VA	19.158	4.792	Oct 2020	3.877	Oct 2021	4.032	Oct 2022	-		4.032	Continuing	Continuing	Continuing
		Subtotal	41.873	10.902		4.002		4.980		-		4.980	Continuing	Continuing	N/A

Remarks

N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Resources - Cyber Security - Advanced Research Center Cyber Support	C/IDIQ	COLSA Corp : AL	4.162	0.000		0.000		0.000		-		0.000	0.000	4.162	0.000
Resources - Cyber Security - NSITE/GT Communications	MIPR	Army CCDC Aviation & Missile Center : AL	0.138	0.000		0.000		0.000		-		0.000	0.000	0.138	0.000
Resources - Cyber Win10 Implementation - MDDC Lab Analysis Infrastructure	C/IDIQ	Analytical Services, In. : Al	1.449	0.000		0.000		0.000		-		0.000	0.000	1.449	0.000
Resources - DT Government Infrastructure Support, Labs, and Communications	MIPR	DOD - USSF - VANDENBERG AIR FORCE BASE	0.000	12.080	Nov 2020	0.000		0.000		-		0.000	0.000	12.080	12.080

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Missile Defense Agency			Date: April 2022
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Test and Evaluation ($ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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
		(VANDENBERG AFB) : CA													
Resources - Engineering & Analysis - Industry Support	C/CPAF	Boeing : AL	4.221	0.000		0.000		0.000		-		0.000	0.000	4.221	0.000
Resources - Engineering & Analysis - OGA Support	MIPR	Army CCDC Aviation & Missile Center : AL	4.098	0.000		0.000		0.000		-		0.000	0.000	4.098	0.000
Resources - GM Government Infrastructure Support, Labs, and Communications - CCDC	MIPR	USA CCDC AVIATION AND MISSLE CENTE : AL	0.000	0.000		0.000		6.429	Nov 2022	-		6.429	Continuing	Continuing	Continuing
Resources - GM Government Infrastructure Support, Labs, and Communications - VSFB	MIPR	Vandenberg AFB : TBD	0.000	0.000		0.000		2.043	Jan 2023	-		2.043	Continuing	Continuing	Continuing
Resources - GM Government Infrastructure Support, Labs, and Communications - Various	MIPR	Various : CA/AL/CO/AK/HI	42.727	11.402	Nov 2020	6.440	Nov 2021	0.000		-		0.000	0.000	60.569	0.000
Resources - Prime Infrastructure Support, Labs, and Communications	C/CPAF	Boeing : AL/AK/AZ/CA/CO/OR/TX//VA	52.594	12.543	Nov 2020	13.143	Nov 2021	0.000		-		0.000	0.000	78.280	0.000
Resources - Prime Infrastructure Support, Labs, and Communications - SITR	C/TBD	TBD : TBD	0.000	0.000		0.000		10.120	Nov 2022	-		10.120	Continuing	Continuing	Continuing
Flight Test Execution - Range, Resources, and Engineering - ANALYTICAL SERVICES, INC.	C/CPAF	ANALYTICAL SERVICES, INC. : AL	0.000	0.000		0.000		1.033	Nov 2022	-		1.033	Continuing	Continuing	Continuing
Flight Test Execution - Range, Resources, and Engineering - Army Space	MIPR	Army Space and Missile Defense Command (USASMDC) : AL	0.000	0.000		0.000		2.273	Jan 2023	-		2.273	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Missile Defense Agency			Date: April 2022
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Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
and Missile Defense Command (USASMDC)															
Flight Test Execution - Range, Resources, and Engineering - Department of Transportation (DOT)	MIPR	DOT - DEPARTMENT OF TRANSPORTATION (DOT) : Various	0.000	0.000		0.000		7.966	Jan 2023	-		7.966	Continuing	Continuing	Continuing
Flight Test Execution - Range, Resources, and Engineering - L-3 COMMUNICATIONS CORPORATION	C/CPAF	L-3 COMMUNICATIONS CORPORATION : Various	0.000	0.000		0.000		1.556	Nov 2022	-		1.556	Continuing	Continuing	Continuing
Flight Test Execution - Range, Resources, and Engineering - Naval Air Warfare Center (NAWC)/ Pax River	MIPR	DOD - USN - NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION (NAWCAD), PAX RIVER : MD	0.000	0.000		0.000		1.489	Jan 2023	-		1.489	Continuing	Continuing	Continuing
Flight Test Execution - Range, Resources, and Engineering - Range, Resources, and Engineering - Various	Various	Various : Various	0.000	0.000		0.000		1.217	Nov 2022	-		1.217	Continuing	Continuing	Continuing
Flight Test Execution - Range, Resources, and Engineering - VSFB	MIPR	Vandenberg AFB : CA	0.000	0.000		0.000		5.576	Jan 2023	-		5.576	Continuing	Continuing	Continuing
Flight Test Execution - Range, Resources, and Engineering - Various	MIPR	VAFB/PMRF, LLL, MIT, Sandia, Northrop Grumman, L3, Analytical Serv, NAWC, NRL, NSWC, CCDC, USASMDC, Dept of Transp Maritime Admin : AL, AK, CA, CO, HI, NM, MD	74.031	3.221	Nov 2020	0.000		0.000		-		0.000	0.000	77.252	0.000

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Missile Defense Agency			Date: April 2022
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 0604887C / *Ballistic Missile Defense Midcourse Defense Segment Test*	**Project (Number/Name)** MT08 / *Midcourse Test*	

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Flight Test Execution - Range, Resources, and Engineering- White Sands Missile Range (WSMR)	MIPR	DOD - USA - WHITE SANDS MISSILE RANGE (WSMR) : NM	0.000	0.000		0.000		1.223	Jan 2023	-		1.223	Continuing	Continuing	Continuing
Flight Test Execution - Test Planning, Test Execution, and Silo Refurbishment	C/CPAF	BOEING : AL/AK/AZ/CA/CO/OR/TX/VA/TBD	139.785	4.000	Nov 2020	7.249	Nov 2021	25.777	Nov 2022	-		25.777	Continuing	Continuing	Continuing
Ground Test Execution - Cybersecurity Testing	C/CPFF	Boeing : AL, AK, AZ, CA, CO, OR, TX, VA	25.426	0.903	Nov 2020	10.440	Nov 2021	3.268	Nov 2022	-		3.268	Continuing	Continuing	Continuing
Ground Test Execution - Ground Test Sprints	C/CPFF	Boeing : AL, AK, AZ, CA, CO, OR, TX, VA	1.000	6.559	Nov 2020	13.673	Nov 2021	0.631	Nov 2022	-		0.631	Continuing	Continuing	Continuing
Ground Test Execution - Ground Test-04 Campaign	C/CPAF	Boeing : AL/AK/AZ/CA/CO/TX/VA	3.355	0.000		0.000		0.000		-		0.000	0.000	3.355	0.000
Ground Test Execution - Ground Test-06 Campaign	C/CPAF	Boeing : AL/AK/AZ/CA/CO/TX/VA	8.163	0.000		0.000		0.000		-		0.000	0.000	8.163	0.000
Ground Test Execution - Ground Test-07 Campaign	C/CPAF	Boeing : AL/AK/AZ/CA/CO/TX/VA	25.648	0.000		0.000		0.000		-		0.000	0.000	25.648	0.000
Ground Test Execution - Ground Test-08 Campaign	C/CPAF	Boeing : AL/AK/AZ/CA/CO/TX/VA	4.507	2.797	Nov 2020	0.000		0.000		-		0.000	0.000	7.304	0.000
		Subtotal	391.304	53.505		50.945		70.601		-		70.601	Continuing	Continuing	N/A

Remarks

N/A

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Operations - Contract Support Services - MILLENNIUM	C/CPIF	MILLENNIUM CORPORATION : AL	0.000	0.000		4.556	Oct 2021	4.533	Nov 2022	-		4.533	Continuing	Continuing	Continuing
		Subtotal	0.000	0.000		4.556		4.533		-		4.533	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Missile Defense Agency		Date: April 2022
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 0604887C / *Ballistic Missile Defense Midcourse Defense Segment Test*	**Project (Number/Name)** MT08 / *Midcourse Test*

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract

Remarks

N/A

	Prior Years	FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	433.177	64.407		59.503		80.114		-		80.114	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 2023 Missile Defense Agency		Date: April 2022
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 0604887C / *Ballistic Missile Defense Midcourse Defense Segment Test*	**Project (Number/Name)** MT08 / *Midcourse Test*

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 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
GM BVT-03 (GM, DT Interceptor Only Flight Test)				▲																								
CVPA-08a (N/I) (BMDS Cybersecurity Test)					○																							
Element Cyber Testing					✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧
AA-08a (N/I) (BMDS Cybersecurity Test)						○																						
GTI-08a (N/I) (MDS Ground Test)							✧																					
CVPA-08b (N/I) (MDS Cybersecurity Test)							○																					
FTX-26 (OT) (SN, OT Target Only Flight Test)								△																				
AA-08b (N/I) (MDS Cybersecurity Test)								○																				
GTD-08a (N/I) (MDS Ground Test)									✧																			
FTG-12 (GM, DT/OT Intercept Flight Test)												△																
GTI-08b (N/I)												✧																
GTD-08b (N/I)													✧															
GTI-13 Sprint 1 (N/I) (MDS Ground Test)																	✧											
CVPA-13 (N/I) (MDS Cybersecurity Test)																	○											
GTI-13 Sprint 2 (N/I) (MDS Ground Test)																			✧									
GTD-13 (N/I) (MDS Ground Test)																				✧								
AA-13 (N/I) (MDS Cybersecurity Test)																				△								
GTI-14 Sprint 1 (N/I)																								✧				
CVPA-14 (N/I) (MDS Cybersecurity Test)																								✧	✧			
FTG-16 (GM, DT Intercept Flight Test)																										△		
GTI-14 (N/I) Sprint 2 (MDS Ground Test)																										✧		
AA-14 (N/I) (MDS Ground Test)																											✧	
FTG-17 (GM, DT/OT Intercept Flight Test)																												△
GTD-14 (N/I) (MDS Ground Test)																												✧

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Missile Defense Agency		Date: April 2022
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 0604887C / *Ballistic Missile Defense Midcourse Defense Segment Test*	**Project (Number/Name)** MT08 / *Midcourse Test*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
GM BVT-03 (GM, DT Interceptor Only Flight Test)	4	2021	4	2021
CVPA-08a (N/I) (BMDS Cybersecurity Test)	1	2022	1	2022
Element Cyber Testing	1	2022	4	2028
AA-08a (N/I) (BMDS Cybersecurity Test)	2	2022	2	2022
GTI-08a (N/I) (MDS Ground Test)	3	2022	3	2022
CVPA-08b (N/I) (MDS Cybersecurity Test)	3	2022	3	2022
FTX-26 (OT) (SN, OT Target Only Flight Test)	4	2022	4	2022
AA-08b (N/I) (MDS Cybersecurity Test)	4	2022	4	2022
GTD-08a (N/I) (MDS Ground Test)	1	2023	1	2023
FTG-12 (GM, DT/OT Intercept Flight Test)	4	2023	4	2023
GTI-08b (N/I)	4	2023	4	2023
GTD-08b (N/I)	2	2024	2	2024
GTI-13 Sprint 1 (N/I) (MDS Ground Test)	1	2025	1	2025
CVPA-13 (N/I) (MDS Cybersecurity Test)	1	2025	1	2025
GTI-13 Sprint 2 (N/I) (MDS Ground Test)	3	2025	3	2025
GTD-13 (N/I) (MDS Ground Test)	4	2025	4	2025
AA-13 (N/I) (MDS Cybersecurity Test)	4	2025	4	2025
GTI-14 Sprint 1 (N/I)	4	2026	4	2026
CVPA-14 (N/I) (MDS Cybersecurity Test)	4	2026	1	2027
FTG-16 (GM, DT Intercept Flight Test)	2	2027	2	2027
GTI-14 (N/I) Sprint 2 (MDS Ground Test)	2	2027	2	2027
AA-14 (N/I) (MDS Ground Test)	3	2027	3	2027

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Missile Defense Agency		Date: April 2022
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 0604887C / *Ballistic Missile Defense Midcourse Defense Segment Test*	**Project (Number/Name)** MT08 / *Midcourse Test*

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
FTG-17 (GM, DT/OT Intercept Flight Test)	4	2027	4	2027
GTD-14 (N/I) (MDS Ground Test)	4	2027	4	2027

Note

The impacts of Ground Test Replan are not shown and will be adjudicated and reflected in future budgets.

Exhibit R-2A, RDT&E Project Justification: PB 2023 Missile Defense Agency			Date: April 2022
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604887C / *Ballistic Missile Defense Midcourse Defense Segment Test*	Project (Number/Name) MD40 / *Program Wide Support*	

COST ($ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
MD40: *Program Wide Support*	15.621	2.664	1.921	3.961	-	3.961	2.355	2.170	3.201	6.105	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Program Wide Support (PWS) is allocated on a pro-rata basis across multiple Agency Program Elements (PEs) 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 the Missile Defense Agency (MDA) functions and activities across the entire Missile Defense System (MDS). These functions include Government Civilians and Contract Support Services. This effort provides integrity and oversight of the MDS 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 2021	FY 2022	FY 2023
Title: Program Wide Support	2.664	1.921	3.961
Articles:	-	-	-
Description: PWS contains non-headquarters management costs in support of MDA functions and activities across the entire MDS. These functions include Government Civilians and Contract Support Services. This effort provides integrity and oversight of the MDS 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 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; the FSRM program (formerly Real Property Maintenance) to keep the Department's			

Exhibit R-2A, RDT&E Project Justification: PB 2023 Missile Defense Agency		Date: April 2022
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 0604887C / *Ballistic Missile Defense Midcourse Defense Segment Test*	**Project (Number/Name)** MD40 / *Program Wide Support*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023
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 2022 Plans:*** - SEE ABOVE. ***FY 2023 Plans:*** - SEE ABOVE. ***FY 2022 to FY 2023 Increase/Decrease Statement:*** Increase from FY 2022 to FY 2023 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	2.664	1.921	3.961

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Missile Defense Agency		Date: April 2022
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 0604887C / *Ballistic Missile Defense Midcourse Defense Segment Test*	**Project (Number/Name)** MD40 / *Program Wide Support*

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Wide Support - Agency Operations MITRE	FFRDC	MITRE Corporation : AL	1.330	0.706	Dec 2020	0.700	Dec 2021	2.705	Nov 2022	-		2.705	Continuing	Continuing	Continuing
Program Wide Support - Agency Operations User Services	Reqn	Various : AL	4.781	1.796	Oct 2020	1.078	Nov 2021	0.928	Nov 2022	-		0.928	Continuing	Continuing	Continuing
Program Wide Support - Agency Operations and Support Other Agency Services (MIPRs)	MIPR	Various : Multi: AL, VA	0.032	0.082	Oct 2020	0.065	Nov 2021	0.000		-		0.000	0.000	0.179	0.000
Program Wide Support - Agency Operations and Support Services	C/CPFF	SYSTEMS ENGINEERING INC : AL	6.045	0.050	Oct 2020	0.050	Nov 2021	0.328	Nov 2022	-		0.328	Continuing	Continuing	Continuing
Program Wide Support - Agency OperationsManagement	Various	Various : Multi: AL, VA, Aust, Japan	0.386	0.030	Jul 2021	0.028	Apr 2022	0.000		-		0.000	0.000	0.444	0.000
Program Wide Support - Prior year no longer funded in the FYDP	Various	Various : Various	3.047	0.000		0.000		0.000		-		0.000	3.047	6.094	0.000
		Subtotal	15.621	2.664		1.921		3.961		-		3.961	Continuing	Continuing	N/A

Remarks

N/A

	Prior Years	FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	15.621	2.664		1.921		3.961		-		3.961	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 2023 Missile Defense Agency		Date: April 2022
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 0604887C / *Ballistic Missile Defense Midcourse Defense Segment Test*	**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 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
MD40 Program-Wide Support	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧	✧

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Missile Defense Agency		Date: April 2022
Appropriation/Budget Activity 0400 / 4	**R-1 Program Element (Number/Name)** PE 0604887C / *Ballistic Missile Defense Midcourse Defense Segment Test*	**Project (Number/Name)** MD40 / *Program Wide Support*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
MD40 Program-Wide Support	1	2021	4	2027