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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2017 Missile Defense Agency **Date:** February 2016

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0603907C / <i>Sea Based X-Band Radar (SBX)</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	286.017	64.610	71.266	68.787	-	68.787	73.329	70.423	85.881	74.189	Continuing	Continuing
<i>MX46: Sea Based X-Band Radar Development Support</i>	275.958	60.882	68.061	65.678	-	65.678	69.759	66.842	81.471	70.276	Continuing	Continuing
<i>MD40: Program-Wide Support</i>	10.059	3.728	3.205	3.109	-	3.109	3.570	3.581	4.410	3.913	Continuing	Continuing

**Program MDAP/MAIS Code:** 362

**Note**

N/A

**A. Mission Description and Budget Item Justification**

The SBX is an advanced X-Band radar that provides the capability for mid-course acquisition, tracking, discrimination and hit-assessment of ballistic missiles. The SBX radar is mounted on a mobile, ocean-going, semi-submersible platform, enabling it to cover any region of the globe. The SBX supports the Ballistic Missile Defense System (BMDS) Homeland defense mission by tracking and discriminating sophisticated Intercontinental Ballistic Missile (ICBM) threats.

SBX Test and Operational Support status includes 120-days at sea per year for BMDS flight and ground test participation while remaining recallable to an active, operational status when indications and warnings signal the need for enhanced discrimination. The SBX is located in a Pacific port when not required at sea. The SBX maintains vessel certifications for operations at sea as well as software compatibility with the BMDS.

MD40 Program-Wide Support (PWS) consists of essential non-headquarters management efforts providing integrated and efficient support to MDA functions and activities across the entire BMDS.

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2017 Missile Defense Agency	<b>Date:</b> February 2016
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<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0603907C / <i>Sea Based X-Band Radar (SBX)</i>
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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Previous President's Budget	64.409	72.866	71.267	-	71.267
Current President's Budget	64.610	71.266	68.787	-	68.787
Total Adjustments	0.201	-1.600	-2.480	-	-2.480
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-1.600			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	1.275	0.000			
• SBIR/STTR Transfer	-1.074	0.000			
• Other Adjustment	0.000	0.000	-2.480	-	-2.480

**Change Summary Explanation**

The FY 2017 decrease reflects a realignment of funds from the Sea Based X-Band Radar (SBX) Program Element (0603907C) to the Long Range Discrimination Radar Program Element (0604873C) for evolving requirements to support updates to radar capability, technical requirements and configuration.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Missile Defense Agency										<b>Date:</b> February 2016		
<b>Appropriation/Budget Activity</b> 0400 / 4					<b>R-1 Program Element (Number/Name)</b> PE 0603907C / Sea Based X-Band Radar (SBX)				<b>Project (Number/Name)</b> MX46 / Sea Based X-Band Radar Development Support			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
MX46: Sea Based X-Band Radar Development Support	275.958	60.882	68.061	65.678	-	65.678	69.759	66.842	81.471	70.276	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

N/A

**A. Mission Description and Budget Item Justification**

The SBX is in a test and operations support status, supporting Ballistic Missile Defense System (BMDS) ground and flight testing while maintaining the ability to be recalled to an active, operational status when indications and warnings indicate need for enhanced discrimination. SBX will be located in a Pacific port when not required to be at sea. SBX will maintain vessel certifications for operations at sea and software compatibility with the BMDS, ready for recall to active operational status.

This project provides for developmental operations and support of the SBX Radar and its four major sub-systems: the self-propelled vessel; the X-Band Radar (XBR); the In-Flight Interceptor Communications System Data Terminal; and the communications network. Developmental operations and support activities include operation and sustainment of the vessel, developmental operation and sustainment of the XBR, limited XBR software support and vessel and shoreside security.

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

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<b>Title:</b> Vessel Operations and Support	34.140	33.882	30.620
<b>Articles:</b>	-	-	-
<b>Description:</b> The SBX is in a test and operations support status, supporting Ballistic Missile Defense System (BMDS) ground and flight testing while maintaining the ability to be recalled to an active, operational status when indications and warnings indicate need for enhanced discrimination. SBX will be located in a Pacific port when not required to be at sea. SBX will maintain vessel certifications for operations at sea and software compatibility with the BMDS, ready for recall to active operational status.			
This project provides for developmental operations and support of the SBX Radar and its four major sub-systems: the self-propelled vessel; the X-Band Radar (XBR); the In-Flight Interceptor Communications System Data Terminal; and the communications network. Developmental operations and support activities include operation and sustainment of the vessel, developmental operation and sustainment of the XBR, limited XBR software support and vessel and shoreside security.			
<b>FY 2015 Accomplishments:</b>			
-Sustained the SBX in test and operations support status			
-Maintained certification and readiness for operational contingencies			
-Participated in targets of opportunity for developmental testing: FTX-20, GT-214 and GT-215			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Missile Defense Agency		<b>Date:</b> February 2016		
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603907C / Sea Based X-Band Radar (SBX)	<b>Project (Number/Name)</b> MX46 / Sea Based X-Band Radar Development Support		
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<p>-Completed recurring 5-year vessel U.S. Coast Guard and American Bureau of Shipping recertification and special survey efforts</p> <p><b>FY 2016 Plans:</b></p> <p>-Sustain the SBX vessel in a test and operational support status</p> <p>-Maintain certification and readiness for operational contingencies, with increased responsiveness</p> <p>-Participate in Ballistic Missile Defense System (BMDS) Ground-Based Midcourse Defense Interceptor Development Test (CTV-02+)</p> <p>-Annual surveys and U.S. Coast Guard Certification</p> <p><b>FY 2017 Plans:</b></p> <p>-Decrease due to completion of thruster spare refurbishment</p> <p>-Sustain the SBX vessel in a test and operational support status</p> <p>-Maintain certification and readiness for operational contingencies, maintain responsiveness</p> <p>-Participate in (BMDS) Ground-Based Midcourse Defense Intercept Flight Test (FTG-15) per the Integrated Master Test Plan</p> <p>-Annual surveys and U.S. Coast Guard Certification</p>				
<p><b>Title:</b> System Force Protection</p> <p><b>Description:</b> N/A</p> <p><b>FY 2015 Accomplishments:</b></p> <p>-Provided force protection for SBX in test and operations support status</p> <p><b>FY 2016 Plans:</b></p> <p>-Provide force protection for SBX</p> <p><b>FY 2017 Plans:</b></p> <p>-Provide force protection for SBX</p>		<p>2.960</p> <p><b>Articles:</b> -</p>	<p>3.010</p> <p>-</p>	<p>3.070</p> <p>-</p>
<p><b>Title:</b> XBR Operations and Support</p> <p><b>Description:</b> N/A</p> <p><b>FY 2015 Accomplishments:</b></p> <p>-Operated and sustained the X-Band Radar (XBR), operated and sustained SBX communications systems, and performed mission integration functions in test and operations support status. Limited software sustainment will maintain system capability with the BMDS.</p>		<p>23.782</p> <p><b>Articles:</b> -</p>	<p>31.169</p> <p>-</p>	<p>31.988</p> <p>-</p>

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Missile Defense Agency		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603907C / Sea Based X-Band Radar (SBX)	<b>Project (Number/Name)</b> MX46 / Sea Based X-Band Radar Development Support

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
-Fielded additional XBR capability to the Warfighter (Build 3.2 software) with the BMDS Capability Update, and delivered software (Build 3.3 software upgrade) to support future fielding -Participated in targets of opportunity for developmental testing: FTX-20, GT-214 and GT-215 -The amount requested in FY 2015 reflects an annualized funding requirement based on evolving requirements for maintaining SBX in Test and Operations Support Status  <b>FY 2016 Plans:</b> -Operate and sustain the X-Band Radar (XBR), operate and sustain SBX communications systems, and perform mission integration functions for SBX. Limited software sustainment maintains system capability with the BMDS. -Field additional XBR capability to the Warfighter (added to Build 3 software) with the BMDS Capability Update  <b>FY 2017 Plans:</b> -Continue maintaining SBX including support for contingency operations with manning for improved readiness and short time from notification to underway. Planned underway days are 120 days per year. -Operate and sustain the X-Band Radar (XBR), operate and sustain SBX communications systems, and perform mission integration functions for SBX. Limited software sustainment will maintain system capability with the BMDS. Support equipment obsolescence mitigation within limited maintenance budget. -Field additional XBR capability to the Warfighter (added to Build 3 software) with the BMDS Capability Update -Provide precision track, discrimination and hit assessment for engagement support in (BMDS) Ground-Based Midcourse Defense Intercept Flight Test (FTG-15) per the approved Integrated Master Test Plan -Provide precision track, discrimination and hit assessment for engagement support in Ballistic Missile Defense System (BMDS) Ground-Based Midcourse Defense Interceptor Development Test (CTV-02+)			
<b>Accomplishments/Planned Programs Subtotals</b>	60.882	68.061	65.678

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u> <u>Base</u>	<u>FY 2017</u> <u>OCO</u>	<u>FY 2017</u> <u>Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• 0603882C: Ballistic Missile Defense Midcourse Defense Segment	863.965	1,269.913	862.080	-	862.080	701.311	585.079	600.710	535.614	Continuing	Continuing
• 0603884C: Ballistic Missile Defense Sensors	260.347	228.392	230.077	-	230.077	144.893	141.815	171.644	158.421	Continuing	Continuing
• 0603891C: Special Programs - MDA	301.201	400.387	321.607	-	321.607	307.410	284.785	264.031	268.024	Continuing	Continuing

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**Exhibit R-2A, RDT&E Project Justification:** PB 2017 Missile Defense Agency **Date:** February 2016

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603907C / Sea Based X-Band Radar (SBX)	<b>Project (Number/Name)</b> MX46 / Sea Based X-Band Radar Development Support
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**C. Other Program Funding Summary (\$ in Millions)**

<b>Line Item</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• 0603896C: <i>Ballistic Missile Defense Command and Control, Battle Management &amp; Communication</i>	420.516	429.853	439.617	-	439.617	413.198	432.763	454.601	462.065	Continuing	Continuing
• 0603898C: <i>Ballistic Missile Defense Joint Warfighter Support</i>	44.220	47.898	47.776	-	47.776	49.621	50.564	53.151	54.042	Continuing	Continuing
• 0603904C: <i>Missile Defense Integration and Operations Center (MDIOC)</i>	53.972	47.939	54.750	-	54.750	53.894	55.524	58.100	59.029	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

SBX will be contractor operated and maintained through a variety of contracts between the Navy and Missile Defense Agency (MDA). SBX-1 Vessel Management and Security contracts are managed by Military Sealift Command. The SBX X-Band Radar is operated and maintained on contracts managed by MDA. The MDA contracts also support the Army Navy/Transportable Radar Surveillance (AN/TPY-2) and the Ground Based Radar Prototype (GBR-P).

**E. Performance Metrics**

N/A

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Missile Defense Agency** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603907C / Sea Based X-Band Radar (SBX)	<b>Project (Number/Name)</b> MX46 / Sea Based X-Band Radar Development Support
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Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
<b>Subtotal</b>			-	-	-	-	-	-	-	-	-	-	-	-	-

**Remarks**  
N/A

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Vessel Operations and Support - Fuel	MIPR	Military Sealift Command : VA	27.031	4.103		5.070	Nov 2015	4.990	Nov 2016	-		4.990	Continuing	Continuing	Continuing
Vessel Operations and Support - Navy Transition Office	MIPR	US Navy : AL	5.732	0.000		0.000		0.000		-		0.000	0	5.732	0
Vessel Operations and Support - Program Management Office	MIPR	Military Sealift Command : VA	0.952	1.465		1.150	Nov 2015	1.010	Nov 2016	-		1.010	Continuing	Continuing	Continuing
Vessel Operations and Support - SBX Operations & Support (Vessel)	C/FFP	Tote : HI/NJ	81.527	15.998		15.276	Oct 2015	12.313	Oct 2016	-		12.313	Continuing	Continuing	Continuing
Vessel Operations and Support - SBX Vessel Maintenance	C/FFP	Tote : HI/NJ	13.683	4.781		4.906	Oct 2015	3.677	Oct 2016	-		3.677	Continuing	Continuing	Continuing
Vessel Operations and Support - Vessel Mission Integration	C/FFP	Gryphon Tech. : AL/ HI	23.643	7.793		7.480	Dec 2015	8.630	Dec 2016	-		8.630	Continuing	Continuing	Continuing
System Force Protection - Force Protection	SS/CPFF	AQuate : Hi	16.159	2.960		3.010	Oct 2015	3.070	Oct 2016	-		3.070	Continuing	Continuing	Continuing
XBR Operations and Support - SBX Communications Support	SS/CPIF	Boeing : AL/ HI	3.014	2.282		2.590	Dec 2015	2.640	Dec 2016	-		2.640	Continuing	Continuing	Continuing

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Missile Defense Agency** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603907C / Sea Based X-Band Radar (SBX)	<b>Project (Number/Name)</b> MX46 / Sea Based X-Band Radar Development Support
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<b>Support (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
XBR Operations and Support - XBR Operations & Support	SS/CPIF	Raytheon : AL/AK/HI	104.217	21.500		28.579	Nov 2015	29.348	Nov 2016	-		29.348	Continuing	Continuing	Continuing
<b>Subtotal</b>			275.958	60.882		68.061		65.678		-		65.678	-	-	-

**Remarks**  
Increase in XBR support reflects an annualized funding requirement based on evolving requirements for maintaining and sustaining readiness to support contingency operations.

<b>Test and Evaluation (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
<b>Subtotal</b>			-	-		-		-		-		-	-	-	-

**Remarks**  
N/A

<b>Management Services (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
<b>Subtotal</b>			-	-		-		-		-		-	-	-	-

**Remarks**  
N/A

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	275.958	60.882	68.061	65.678	-	65.678	-	-	-

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**Exhibit R-3, RDT&E Project Cost Analysis:** PB 2017 Missile Defense Agency **Date:** February 2016

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603907C / <i>Sea Based X-Band Radar (SBX)</i>	<b>Project (Number/Name)</b> MX46 / <i>Sea Based X-Band Radar Development Support</i>
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	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
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<b>Remarks</b> N/A	
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**Exhibit R-4, RDT&E Schedule Profile: PB 2017 Missile Defense Agency** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603907C / Sea Based X-Band Radar (SBX)	<b>Project (Number/Name)</b> MX46 / Sea Based X-Band Radar Development Support
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Significant Event Complete ▲      Milestone Decision Complete ★      Element Test Complete ◆      System Level Test Complete ●      Complete Activity ✦  
 Significant Event Planned △      Milestone Decision Planned ☆      Element Test Planned ◇      System Level Test Planned ○      Planned Activity ✧

	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
FTO-04 (OTA, Intercept Flight Test)																																▲
FTG-11 (IOT&E) (GM, Intercept Flight Test)												▲																				
GM CTV-02 Plus (GM, Intercept Flight Test)						▲																										
FTG-15 (GM, Intercept Flight Test)											▲																					
GM CTV-03 (GM, Non-Intercept Flight Test)												▲																				
FTG-17 (DT/OT) (GM, Intercept Flight Test)																			▲													
FTG-18 (GM, Intercept Flight Test)																							▲									

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2017 Missile Defense Agency		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603907C / <i>Sea Based X-Band Radar (SBX)</i>	<b>Project (Number/Name)</b> MX46 / <i>Sea Based X-Band Radar Development Support</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
FT0-04 (OTA, Intercept Flight Test)	3	2021	3	2021
FTG-11 (IOT&E) (GM, Intercept Flight Test)	1	2018	1	2018
GM CTV-02 Plus (GM, Intercept Flight Test)	2	2016	2	2016
FTG-15 (GM, Intercept Flight Test)	1	2017	1	2017
GM CTV-03 (GM, Non-Intercept Flight Test)	3	2018	3	2018
FTG-17 (DT/OT) (GM, Intercept Flight Test)	3	2019	3	2019
FTG-18 (GM, Intercept Flight Test)	2	2020	2	2020

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**Exhibit R-2A, RDT&E Project Justification:** PB 2017 Missile Defense Agency **Date:** February 2016

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603907C / Sea Based X-Band Radar (SBX)	<b>Project (Number/Name)</b> MD40 / Program-Wide Support
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
MD40: <i>Program-Wide Support</i>	10.059	3.728	3.205	3.109	-	3.109	3.570	3.581	4.410	3.913	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**  
 In FY 2016, Program Wide Support reflects proportional decreases as a result of changes to the Sea-Based X-Band Radar (SBX).  
 Funding in the All Prior Years column represents a summary of Prior Years Total Costs for active contracts, Military Interdepartmental Purchase Requests on the R-3.

**A. Mission Description and Budget Item Justification**

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

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

	FY 2015	FY 2016	FY 2017
<b>Title:</b> Program Wide Support	3.728	3.205	3.109
<b>Articles:</b>	-	-	-
<b>Description:</b> N/A			
<b>FY 2015 Accomplishments:</b> See paragraph A: Mission Description and Budget Item Justification			
<b>FY 2016 Plans:</b> See paragraph A: Mission Description and Budget Item Justification			
<b>FY 2017 Plans:</b> - See paragraph A: Mission Description and Budget Item Justification			
<b>Accomplishments/Planned Programs Subtotals</b>	3.728	3.205	3.109

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Missile Defense Agency		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603907C / <i>Sea Based X-Band Radar (SBX)</i>	<b>Project (Number/Name)</b> MD40 / <i>Program-Wide Support</i>

**C. Other Program Funding Summary (\$ in Millions)**  
N/A

**Remarks**

**D. Acquisition Strategy**  
N/A

**E. Performance Metrics**  
N/A

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Missile Defense Agency** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603907C / Sea Based X-Band Radar (SBX)	<b>Project (Number/Name)</b> MD40 / Program-Wide Support
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<b>Support (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Wide Support - Agency Facilities, Operations and Maintenance	MIPR	Various : Multi: AK, AL, CA, CO, VA	1.613	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Program Wide Support - Agency Operations Management	Allot	Various : Multi: AL, CA, CO, VA	0.737	0.834		0.000		0.077	Jul 2017	-		0.077	Continuing	Continuing	Continuing
Program Wide Support - Agency Operations and Support Other Agency Services (MIPRs)	MIPR	Various : Multi: AL, CA, CO, VA	0.027	2.832		3.205		3.032	Mar 2017	-		3.032	Continuing	Continuing	Continuing
Program Wide Support - Agency Operations and Support Services (CPAF)	C/CPAF	Northrop Grumman : CO	7.541	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Program Wide Support - Agency Operations and Support Services (FFP)	C/FFP	Various : Multi: VA,WA	0.141	0.062		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Program Wide Support - Agency Operations and Support Services (Reqn)	Reqn	Dept of Labor : VA	0.000	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
<b>Subtotal</b>			10.059	3.728		3.205		3.109		-		3.109	-	-	-

**Remarks**  
N/A

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	10.059	3.728	3.205	3.109	-	3.109	-	-	-

**Remarks**  
N/A

**UNCLASSIFIED**

**Exhibit R-4, RDT&E Schedule Profile: PB 2017 Missile Defense Agency** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603907C / <i>Sea Based X-Band Radar (SBX)</i>	<b>Project (Number/Name)</b> MD40 / <i>Program-Wide Support</i>
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Significant Event Complete ▲	Milestone Decision Complete ★	Element Test Complete ◆	System Level Test Complete ●	Complete Activity +
Significant Event Planned △	Milestone Decision Planned ☆	Element Test Planned ◇	System Level Test Planned ○	Planned Activity ✦

	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
MD40 Program-Wide Support					✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦				

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2017 Missile Defense Agency		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603907C / <i>Sea Based X-Band Radar (SBX)</i>	<b>Project (Number/Name)</b> MD40 / <i>Program-Wide Support</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
MD40 Program-Wide Support	1	2016	4	2020