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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Army										Date: February 2018		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0604319A / Indirect Fire Protection Capability Increment 2-Intercept (IFPC2)							
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	-	0.000	11.303	51.030	-	51.030	146.731	132.361	156.732	21.528	0.000	519.685
DU3: IFPC2	-	0.000	11.303	51.030	-	51.030	146.731	132.361	156.732	21.528	0.000	519.685
Program MDAP/MAIS Code: Pre												
Note Funding in years prior to FY17 on BA4, PE 0604319/DU3 was for IFPC Inc 2-I Block 1 system development. Funding for FY17 and out for IFPC Inc 2-I Block 1 system development activities has been realigned from BA4, PE 0604319/DU3 to BA5, PE 0605052/EY7 as the program transitions to EMD. Funding for FY18 and out is programmed for Expanded Mission Area Missile (EMAM) interceptor.  A. Mission Description and Budget Item Justification EMAM program supports the overall Integrated Air and Missile Defense (IAMD) architecture and expands the Indirect Fire Protection Capability Increment 2 - Intercept (IFPC Inc 2-I) Block 1 system's target set by enabling an initial counter-Rocket, Artillery, and Mortar (RAM) capability while providing a second kinetic interceptor capability against Cruise Missiles (CM) and Unmanned Aircraft System (UAS).  The Indirect Fire Protection Capability Increment 2 - Intercept (IFPC Inc 2-I) is a ground-based weapon system that is designed to acquire, track, engage, and defeat the UAS, CM, and RAM threats. Initial IFPC 2-I system development was funded on this line through FY16. The system provides 360-degree protection and simultaneously engages threats arriving from different azimuths. A block acquisition approach will be used to provide this capability. The IFPC Inc 2-I Block 1 system consists of an existing interceptor and sensor and development of fire control software and a Multi-Mission Launcher (MML) to support the UAS and CM defeat mission. The IFPC Inc 2-I system is compatible with the Army Integrated Air and Missile Defense (IAMD) Command and Control (C2) architecture. The IFPC Inc 2-I system is transportable by Army common mobile platforms.  FY2019 base dollars in the amount of \$51.030 million funds integration and testing of a EMAM interceptor into the IFPC Inc 2-I Block 1 Multi-Mission Launcher.												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Army				Date: February 2018	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
2040: Research, Development, Test & Evaluation, Army I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0604319A I Indirect Fire Protection Capability Increment 2-Intercept (IFPC2)			
B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	0.000	11.303	52.604	-	52.604
Current President's Budget	0.000	11.303	51.030	-	51.030
Total Adjustments	0.000	0.000	-1.574	-	-1.574
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Year	-	-	-1.574	-	-1.574
Change Summary Explanation					
Program Office core employee labor costs moved from RDTE to OMA as part of an OSD auditability directive and revised economic assumptions.					

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										Date: February 2018		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604319A / Indirect Fire Protection Capability Increment 2-Intercept (IFPC2)				Project (Number/Name) DU3 / IFPC2			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
DU3: IFPC2	-	0.000	11.303	51.030	-	51.030	146.731	132.361	156.732	21.528	0.000	519.685
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

## Note

Funding in years prior to FY17 on BA4, PE 0604319/DU3 was for IFPC Inc 2-I Block 1 system development. Funding for FY17 and out for IFPC Inc 2-I Block 1 system development activities has been realigned from BA4, PE 0604319/DU3 to BA5, PE 0605052/EY7 as the program transitions to EMD. Funding for FY18 and out is programmed for Expanded Mission Area Missile (EMAM) interceptor.

## A. Mission Description and Budget Item Justification

The EMAM program supports the overall Integrated Air and Missile Defense (IAMD) architecture and expands the Indirect Fire Protection Capability Increment 2 - Intercept (IFPC Inc 2-I) Block 1 system's target set by enabling an initial counter-Rocket, Artillery, and Mortar (RAM) capability while providing a second kinetic interceptor capability against Cruise Missiles (CM) and Unmanned Aircraft System (UAS).

The Indirect Fire Protection Capability Increment 2 - Intercept (IFPC Inc 2-I) is a ground-based weapon system that is designed to acquire, track, engage, and defeat the UAS, CM, and RAM threats. Initial IFPC 2-I system development was funded on this line through FY16. The system provides 360-degree protection and simultaneously engages threats arriving from different azimuths. A block acquisition approach will be used to provide this capability. The IFPC Inc 2-I Block 1 system consists of an existing interceptor and sensor and development of fire control software and a Multi-Mission Launcher (MML) to support the UAS and CM defeat mission. The IFPC Inc 2-I system is compatible with the Army Integrated Air and Missile Defense (IAMD) Command and Control (C2) architecture. The IFPC Inc 2-I system is transportable by Army common mobile platforms.

FY2019 base dollars in the amount of \$51.030 million funds integration and testing of a EMAM interceptor into the IFPC Inc 2-I Block 1 Multi-Mission Launcher.

## B. Accomplishments/Planned Programs (\$ in Millions)

	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019 Base</b>	<b>FY 2019 OCO</b>	<b>FY 2019 Total</b>
<b>Title:</b> System Engineering & Program Management (SEPM)	-	6.503	14.459	-	14.459
<b>Description:</b> Funding is provided for the following efforts:					
<b>FY 2018 Plans:</b>					
- Initiate RDT&E efforts associated with IFPC Increment 2-I Block 1 second interceptor					
- Perform system engineering, integration, logistics engineering, system test and evaluation management, technical configuration control, cost and business management activities					
- Conduct system technical reviews and program management reviews					
- Perform technical assessments, concept studies, cost reduction, risk reduction, and required documentation					

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army			Date: February 2018			
Appropriation/Budget Activity 2040 / 4		R-1 Program Element (Number/Name) PE 0604319A / Indirect Fire Protection Capability Increment 2-Intercept (IFPC2)		Project (Number/Name) DU3 / IFPC2		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
<div>- Conduct program decision preparation, documentation, and execution activities</div> <div><b>FY 2019 Base Plans:</b><div>- Continue RDT&amp;E efforts associated with Second interceptor</div><div>- Perform system engineering, integration, logistics engineering, system test and evaluation management, technical configuration control, cost and business management activities</div><div>- Conduct system technical reviews and program management reviews to include Design Review 2, Systems Requirement Review (SRR) and Systems Functional Review (SFR) of 3 Vendors</div><div>- Develop Tailored Acquisition Strategy</div><div>- Verify Technology Readiness</div><div>- Down Selection process from 3 Vendors to 1 Vendor for Material Solution.</div><div>- Conduct Preliminary Design Review (PDR)</div><div>- Perform technical assessments, concept studies, cost reduction, risk reduction, and required documentation for Milestone B Decision</div><div>- Conduct program decision preparation, Milestone B documentation, Source Selection documentation and execution activities</div></div> <div><b>FY 2018 to FY 2019 Increase/Decrease Statement:</b> Funding supports events planned in their respective years.</div>						
<div><b>Title:</b> Engineering and Technical Support</div> <div><b>Description:</b> Funding is provided for the following efforts:</div> <div><b>FY 2018 Plans:</b><div>- Initiate IFPC Increment 2-I Block 1 second interceptor engineering and technical support for design of system hardware, software, and integration requirements</div><div>- Participate in system technical and program management reviews</div><div>- Perform technical assessments, concept studies, cost reduction, risk reduction, and required documentation</div></div> <div><b>FY 2019 Base Plans:</b><div>- Continue Second Interceptor engineering and technical support for design of system hardware, software, and integration requirements</div><div>- Develop Tailored Acquisition Strategy</div><div>- Verify Technology Readiness</div><div>- Down Selection process from 3 Vendors to 1 Vendor for Material Solution.</div></div>		-	0.200	1.252	-	1.252

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Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604319A / Indirect Fire Protection Capability Increment 2-Intercept (IFPC2)	Project (Number/Name) DU3 / IFPC2				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
<div>- Conduct Preliminary Design Review (PDR)</div> <div>- Perform technical assessments, concept studies, cost reduction, risk reduction, and required documentation for Milestone B Decision</div> <div>- Conduct program decision preparation, Milestone B documentation, Source Selection documentation and execution activities Participate in system technical and program management reviews</div> <div>- Preparation of Milestone B Decision Briefings and Documentation.</div> <div>FY 2018 to FY 2019 Increase/Decrease Statement: Funding supports events planned in their respective years.</div>						
<div>Title: System/Subsystem Development and Integration</div> <div>Description: Funding is provided for the following efforts:</div> <div>FY 2018 Plans:<div>- Initiate IFPC Increment 2-I Block 1 second interceptor hardware and software integration activities</div><div>- Participate in system technical and program management reviews</div><div>- Perform technical assessments, concept studies, cost reduction, required documentation, integration and component risk reduction</div></div> <div>FY 2019 Base Plans:<div>- Continue Second Interceptor hardware and software integration activities</div><div>- Participate in system technical and program management reviews</div><div>- Perform technical assessments, concept studies, cost reduction, required documentation, integration and component risk reduction</div><div>- Develop Tailored Acquisition Strategy</div><div>- Verify Technology Readiness</div><div>- Down Selection process from 3 Vendors to 1 Vendor for Material Solution.</div><div>- Conduct Preliminary Design Review (PDR)</div><div>- Conduct program decision preparation, Milestone B documentation, Source Selection documentation.</div><div>- Preparation of Milestone B Decision Briefings and Documentation.</div></div> <div>FY 2018 to FY 2019 Increase/Decrease Statement: Funding supports events planned in their respective years.</div>		-	4.191	33.606	-	33.606
<div>Title: System/Subsystem Developmental Testing</div>		-	0.409	1.713	-	1.713

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Appropriation/Budget Activity 2040 / 4				R-1 Program Element (Number/Name) PE 0604319A / Indirect Fire Protection Capability Increment 2-Intercept (IFPC2)				Project (Number/Name) DU3 / IFPC2			
B. Accomplishments/Planned Programs (\$ in Millions)							FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
<b>FY 2018 Plans:</b> - Initiate Developmental testing activities - Initiate Modeling and Simulation test activities - Initiate Cyber Security test activities  <b>FY 2019 Base Plans:</b> - Continue Developmental testing activities - Continue Modeling and Simulation test activities - Continue Cyber Security test activities - Participate in system technical and program management reviews - Perform technical assessments, concept studies, cost reduction, required documentation, integration and component risk reduction - Develop Tailored Acquisition Strategy - Verify Technology Readiness - Down Selection process from 3 Vendors to 1 Vendor for Material Solution. - Conduct Preliminary Design Review (PDR) - Conduct program decision preparation, Milestone B documentation, Source Selection documentation.  <b>FY 2018 to FY 2019 Increase/Decrease Statement:</b> Funding supports events planned in their respective years.											
Accomplishments/Planned Programs Subtotals							-	11.303	51.030	-	51.030
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
• C53101: MSE Missile	809.201	1,106.040	871.276	260.000	1,131.276	512.775	734.152	727.032	813.280	793.430	6,627.186
• 0205456A: Lower Tier Air and Missile Defense (AMD) System	61.449	78.926	79.283	-	79.283	107.785	111.124	121.376	117.336	Continuing	Continuing
• 0604114A: Lower Tier Missile Defense (LTAMD) Capability	33.780	76.728	120.374	-	120.374	125.772	376.738	332.322	241.461	0.000	1,307.175
• C50016: Lower Tier Air and Missile Defense (AMD)	126.470	140.826	111.395	-	111.395	130.051	105.044	107.288	106.178	0.000	827.252

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Appropriation/Budget Activity 2040 / 4				R-1 Program Element (Number/Name) PE 0604319A / Indirect Fire Protection Capability Increment 2-Intercept (IFPC2)				Project (Number/Name) DU3 / IFPC2				
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost	
• 0605052A: Indirect Fire Protection Capability Increment 2	80.781	175.069	157.710	-	157.710	77.599	32.517	-	-	0.000	523.676	
• C62002: IFPC INC 2- I BLOCK 1 SYSTEM	-	-	0.000	-	0.000	175.576	303.422	273.802	388.377	0.000	1,141.177	
• C61001: INDIRECT FIRE PROTECTION CAPABILITY INC 2-I	-	57.742	145.636	-	145.636	319.042	402.938	300.466	424.655	Continuing	Continuing	
• E10: Sentinel	15.368	32.968	39.338	-	39.338	91.534	96.427	80.394	43.874	0.000	399.903	
• S40: Army Integrated Air and Missile Defense	273.240	336.420	277.607	-	277.607	200.275	130.860	63.741	33.196	0.000	1,315.339	
• BZ5075: IAMD Battle Command System	-	-	0.000	-	0.000	72.307	323.680	428.572	497.974	Continuing	Continuing	
• 0604741A: Air Defense Command, Control and Intelligence - Eng Dev	200.205	28.726	95.172	119.300	214.472	15.577	9.310	2.915	29.489	0.000	500.694	
• AD5070: AIR & MSL Defense Planning & Control Sys	126.539	35.735	33.837	-	33.837	24.983	49.385	68.021	63.273	0.000	401.773	
• C62005: IFPC INC 2-I Block 1 Missile 2	-	-	0.000	-	0.000	-	-	12.192	36.278	0.000	48.470	
Remarks												
This program is an integral part of the Army Integrated Air and Missile Defense (IAMD) architecture.												
D. Acquisition Strategy												
The EMAM Product Office will seek a program decision in 1QFY18. The EMAM Product Office plans to award funds for the integration and testing of the second interceptor utilizing a two-phased approach with a demonstration of interceptors from multiple vendors during phase one with a down-select to a single vendor for phase two. Phase two will consist of activities to finalize design and integration of the interceptor and conduct developmental testing.												
E. Performance Metrics												
N/A												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army												Date: February 2018			
Appropriation/Budget Activity 2040 / 4						R-1 Program Element (Number/Name) PE 0604319A / Indirect Fire Protection Capability Increment 2-Intercept (IFPC2)				Project (Number/Name) DU3 / IFPC2					
Management Services (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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
Program Management Admin (IFPC Base System)	MIPR	Cruise Missile Defense Systems Project Office : Huntsville, Alabama	28.644	-		-		-		-		-	Continuing	Continuing	Continuing
Program Management Admin	Various	Multiple Activities : Redstone Arsenal, Alabama	-	-		4.903	Oct 2017	5.753	Oct 2018	-		5.753	Continuing	Continuing	Continuing
Subtotal			28.644	-		4.903		5.753		-		5.753	Continuing	Continuing	N/A
Product Development (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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
System Engineering & Integration (IFPC Base System)	MIPR	Cruise Missile Defense Systems Project Office : Huntsville, AL	54.463	-		-		-		-		-	Continuing	Continuing	Continuing
System Engineering & Integration	Various	Multiple Activities : Huntsville, AL	-	-		1.600	Oct 2017	3.871	Oct 2018	-		3.871	Continuing	Continuing	Continuing
Engineering and Technical Support (IFPC Base System)	MIPR	Multiple Activities : Multiple Locations	140.824	-		-		-		-		-	Continuing	Continuing	Continuing
Engineering and Technical Support	Various	Multiple Activities : Multiple Locations	-	-		0.200	Oct 2017	1.252	Oct 2018	-		1.252	Continuing	Continuing	Continuing
System/Subsystem Development and Integration (IFPC Base System)	MIPR	Multiple Activities : Multiple Locations	120.035	-		-		-		-		-	Continuing	Continuing	Continuing
System/Subsystem Development and Integration	C/CPFF	TBD : Multiple Locations	-	-		4.191	Jan 2018	33.606	Feb 2019	-		33.606	Continuing	Continuing	Continuing
Subtotal			315.322	-		5.991		38.729		-		38.729	Continuing	Continuing	N/A



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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2019 Army</b>												<b>Date: February 2018</b>			
<b>Appropriation/Budget Activity</b> 2040 / 4						<b>R-1 Program Element (Number/Name)</b> PE 0604319A / <i>Indirect Fire Protection Capability Increment 2-Intercept (IFPC2)</i>						<b>Project (Number/Name)</b> DU3 / <i>IFPC2</i>			
<b>Support (\$ in Millions)</b>				<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Log Support	Various	Multiple Activities : Redstone Arsenal, Alabama	-	-		-		1.934	Oct 2018	-		1.934	0.000	1.934	-
<b>Subtotal</b>			-	-		-		1.934		-		1.934	0.000	1.934	N/A
<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
System/Subsystem Developmental Testing	MIPR	Multiple Activities : Multiple Locations	-	-		0.409	Oct 2017	1.713	Oct 2018	-		1.713	Continuing	Continuing	Continuing
Developmental Testing Support	Various	Multiple Activities : Redstone Arsenal, Alabama	-	-		-		2.901	Oct 2018	-		2.901	Continuing	Continuing	Continuing
<b>Subtotal</b>			-	-		0.409		4.614		-		4.614	Continuing	Continuing	N/A
			<b>Prior Years</b>	<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>			343.966	-		11.303		51.030		-		51.030	Continuing	Continuing	N/A
<b>Remarks</b>															

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**Exhibit R-4, RDT&E Schedule Profile: PB 2019 Army** **Date:** February 2018

<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604319A / <i>Indirect Fire Protection Capability Increment 2-Intercept (IFPC2)</i>	<b>Project (Number/Name)</b> DU3 / <i>IFPC2</i>
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Event Name	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	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
Block 1 Pre-Milestone (MS) B Activities																												
EMAM Interceptor Pre-MS B Activities																												
EMAM Interceptor MS B																												
EMAM Interceptor Engineering and Manufacturing Development																												
EMAM Interceptor MS C																												
EMAM Interceptor Low Rate Initial Production (LRIP)																												
EMAM Interceptor Initial Operational Capability (IOC)																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2019 Army			<b>Date:</b> February 2018
<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604319A / <i>Indirect Fire Protection Capability Increment 2-Intercept (IFPC2)</i>	<b>Project (Number/Name)</b> DU3 / <i>IFPC2</i>	

**Schedule Details**

<b>Events</b>	<b>Start</b>		<b>End</b>	
	<b>Quarter</b>	<b>Year</b>	<b>Quarter</b>	<b>Year</b>
Block 1 Pre-Milestone (MS) B Activities	1	2014	1	2017
Engineering Demonstration (ED)	2	2016	3	2016
EMAM Interceptor Pre-MS B Activities	1	2018	4	2019
EMAM Interceptor MS B	1	2020	1	2020
EMAM Interceptor Engineering and Manufacturing Development	1	2020	1	2023
EMAM Interceptor MS C	1	2023	1	2023
EMAM Interceptor Low Rate Initial Production (LRIP)	1	2023	4	2023
EMAM Interceptor Initial Operational Capability (IOC)	4	2023	4	2023