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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 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0605052A / Indirect Fire Protection Capability Increment 2							
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	-	80.781	175.069	157.710	-	157.710	77.599	32.517	0.000	0.000	0.000	523.676
EY7: IFPC Increment 2 - Block 1	-	80.781	175.069	157.710	-	157.710	77.599	32.517	0.000	0.000	0.000	523.676

Note

Funding for FY17 and out has been realigned for IFPC Inc 2-I Block 1 system development activities from BA4, PE 0604319/DU3 to BA5, PE 0605052/EY7.

A. Mission Description and Budget Item Justification

This program supports the overall integrated Air and Missile Defense (AMD) architecture and provides a robust intercept capability against Cruise Missiles (CM), Unmanned Aircraft System (UAS) and Rocket, Artillery, and Mortar (RAM) threats for deployed forces. 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. The system provides 360-degree protection and simultaneously engages threats arriving from different azimuths. A block acquisition approach is 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 will be integrated with the Army Integrated Air and Missile Defense (IAMD) Command and Control (C2) architecture. The IFPC Inc 2-I system is transportable by Army Medium Tactical Vehicles (MTV) common mobile platforms.

FY 2019 Base dollars in the amount of \$157.710 million are designated for the fabrication and delivery of EMD Assets #7-12, program management/administration, system engineering, hardware and software integration, additional spares and system/subsystem developmental testing.

B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	83.995	175.069	149.506	-	149.506
Current President's Budget	80.781	175.069	157.710	-	157.710
Total Adjustments	-3.214	0.000	8.204	-	8.204
• Congressional General Reductions	-0.041	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-3.173	-			
• Adjustments to Budget Years	-	-	8.204	-	8.204

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<u>Change Summary Explanation</u> Funding decrease in FY17 of \$2.782 million is for Small Business Innovative Research (SBIR), \$0.391 million is for Small Business Technology Transfer Research (STTR), and \$0.041 million is for Federally Funded Research and Development Centers (FFRDC). FY19 adjustments included a \$9.9 million increase to fund additional Risk Reduction activities and a reduction of \$1.696 million due to revised economic assumptions.		

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										Date: February 2018		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605052A / Indirect Fire Protection Capability Increment 2				Project (Number/Name) EY7 / IFPC Increment 2 - Block 1			
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
EY7: IFPC Increment 2 - Block 1	-	80.781	175.069	157.710	-	157.710	77.599	32.517	0.000	0.000	0.000	523.676
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Funding for FY17 and out has been realigned for IFPC Inc 2-I Block 1 system development activities from BA4, PE 0604319/DU3 to BA5, PE 0605052/EY7 as the program transitions to EMD.

A. Mission Description and Budget Item Justification

This program supports the overall integrated Air and Missile Defense (AMD) architecture and provides a robust intercept capability against Cruise Missiles (CM), Unmanned Aircraft System (UAS) and Rocket, Artillery, and Mortar (RAM) threats for deployed forces. 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. The system provides 360-degree protection and simultaneously engages threats arriving from different azimuths. A block acquisition approach is 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 will be integrated with the Army Integrated Air and Missile Defense (IAMD) Command and Control (C2) architecture. The IFPC Inc 2-I system is transportable by Army Medium Tactical Vehicles (MTV) common mobile platforms.

FY 2019 Base dollars in the amount of \$157.710 million are designated for the fabrication and delivery of EMD Assets #7-12, program management/administration, system engineering, hardware and software integration, additional spares and system/subsystem developmental testing.

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

	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: IFPC Inc 2-I Program Management/Admin	21.920	6.834	6.422	-	6.422
Description: Funding is provided for the following efforts: Starting in FY18, R-2A Program Management will be split out into PM Admin, PM System Engineering, and System Engineering & Integration to better align with R-3.					
FY 2018 Plans: - Continue RDT&E efforts associated with the Engineering and Manufacturing Development (EMD) phase - 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 developmental testing and performance evaluations - Perform logistics and maintenance demonstrations					

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Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name) PE 0605052A / Indirect Fire Protection Capability Increment 2		Project (Number/Name) EY7 / IFPC Increment 2 - Block 1		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
<div>- Conduct validation of logistics publications</div> <div>- Conduct Material Readiness Assessment</div> <div>FY 2019 Base Plans:</div> <div>- Continue RDT&E efforts associated with Engineering and Manufacturing Development (EMD) phase</div> <div>- Prepare for MS C and Low Rate Initial Production (LRIP) phase</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</div> <div>- Perform developmental testing and performance evaluations to include Developmental Test (#1 & #2) and Limited User Test (LUT)</div> <div>- Conduct Material Readiness Assessment (MRA)</div> <div>- Perform logistics and maintenance demonstrations</div> <div>- Conduct verification of logistics publications</div> <div>FY 2018 to FY 2019 Increase/Decrease Statement:</div> <div>Funding supports events planned in their respective years.</div>						
<div>Title: IFPC Inc 2-I Program Management - System Engineering</div> <div>Description: Funding is provided for the following efforts: Starting in FY18, R-2A Program Management will be split out into PM Admin, PM System Engineering, and System Engineering & Integration to better align with R-3.</div> <div>FY 2018 Plans:</div> <div>- Continue RDT&E efforts associated with the Engineering and Manufacturing Development (EMD) phase</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</div> <div>- Perform developmental testing and performance evaluations</div> <div>- Perform logistics and maintenance demonstrations</div> <div>- Conduct verification of logistics publications</div> <div>- Conduct Material Readiness Assessment</div> <div>FY 2019 Base Plans:</div> <div>- Continue RDT&E efforts associated with the Engineering and Manufacturing Development (EMD) phase</div>		-	2.852	1.910	-	1.910

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B. Accomplishments/Planned Programs (\$ in Millions)						
		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
<ul style="list-style-type: none">- Prepare for MS C and Low Rate Initial Production (LRIP) phase- 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 developmental testing and performance evaluations to include Developmental Test (#1 & #2) and Limited User Test (LUT)- Conduct Material Readiness Assessment (MRA)- Perform logistics and maintenance demonstrations- Conduct verification of logistics publications <p>FY 2018 to FY 2019 Increase/Decrease Statement: Funding supports events planned in their respective years.</p>						
<p>Title: System Engineering & Integration</p> <p>Description: Funding is provided for the following efforts: Starting in FY18, R-2A Program Management will be split out into PM Admin, PM System Engineering, and System Engineering & Integration to better align with R-3.</p> <p>FY 2018 Plans:</p> <ul style="list-style-type: none">- Continue engineering and technical support of MML hardware, software and interface development and integration- Participate in system technical and program management reviews- Perform technical assessments, concept studies, cost reduction, risk reduction, final design, and required documentation- Continue IFPC Integration Lab (I2 Lab) system integration, performance analysis and test- Continue I2 Lab software development and integration- Conduct EMD MML functional checkout- Conduct Material Readiness Assessment <p>FY 2019 Base Plans:</p> <ul style="list-style-type: none">- Continue engineering and technical support of MML hardware, software and interface development and integration- Prepare for MS C and Low Rate Initial Production (LRIP) phase- Participate in system technical and program reviews		-	23.513	12.845	-	12.845

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
<div>- Perform developmental testing and performance evaluations to include Developmental Test (#1 & #2) and Limited User Test (LUT)</div> <div>- Conduct Material Readiness Assessment (MRA)</div> <div>- Perform technical assessments, concept studies, cost reduction, risk reduction, final design, and required documentation</div> <div>- Continue IFPC Integration Lab (I2 Lab) system integration, performance analysis and test</div> <div>- Continue I2 Lab software development and integration</div> <div>- Complete EMD MML functional checkout</div> <div>FY 2018 to FY 2019 Increase/Decrease Statement: Funding supports events planned in their respective years.</div>						
<div>Title: IFPC Inc 2-I Engineering and Technical Support</div> <div>Description: Funding is provided for the following efforts:</div> <div>FY 2018 Plans:</div> <div>- Fabricate and deliver EMD MML Assets #1-6</div> <div>- Continue engineering and technical support of MML hardware, software, interface development, qualification and integration</div> <div>- Continue MML component hardware, software, and integration development activities</div> <div>- Continue development of MML technical data package</div> <div>- Participate in system technical and program management reviews</div> <div>- Conduct maintenance and repair of EMD MML assets to enable scheduled use in further test activities</div> <div>- Conduct Material Readiness Assessment</div> <div>FY 2019 Base Plans:</div> <div>- Fabricate and deliver EMD MML Assets #7-12</div> <div>- Continue engineering and technical support of MML hardware, software, interface development, component and system qualification testing and integration</div> <div>- Continue MML component hardware, software, and integration development activities</div> <div>- Complete development of MML technical data package</div> <div>- Participate in system technical and program reviews</div> <div>- Conduct maintenance and repair of EMD MML assets to enable scheduled use in further test activities</div> <div>- Conduct Material Readiness Assessment (MRA)</div>		36.592	95.875	75.078	-	75.078

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Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name) PE 0605052A / Indirect Fire Protection Capability Increment 2		Project (Number/Name) EY7 / IFPC Increment 2 - Block 1				
B. Accomplishments/Planned Programs (\$ in Millions)				FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
- Conduct Functional Configuration Audit (FCA) - Prepare for Low Rate Initial Production (LRIP) FY 2018 to FY 2019 Increase/Decrease Statement: Funding supports events planned in their respective years.								
Title: IFPC Inc 2-I System/Subsystem Development and Integration Description: Funding is provided for the following efforts: FY 2018 Plans: - Continue system component hardware, software, and integration development activities - Participate in system technical and program management reviews - Perform integration, component, and system level qualification, performance verification and risk reduction - Continue system/subsystem hardware, software, and integration test and simulation activities - Perform technical assessments, concept studies, cost reduction, risk reduction, final design, and required documentation - Perform developmental testing and performance evaluations - Conduct failure analysis of Developmental Test (#1) and associated re-design, component re-qualification and testing, and incorporating into system FY 2019 Base Plans: - Continue system component hardware, software, and integration development activities - Participate in system technical and program reviews - Perform integration, component, and system level qualification, performance verification and risk reduction - Continue system/subsystem hardware, software, and integration test and simulation activities - Perform technical assessments, concept studies, cost reduction, risk reduction, final design, and required documentation - Perform developmental testing and performance evaluations - Conduct failure analysis of Developmental Test (#1 & #2) and Limited User Test (LUT) and associated re-design, component re-qualification and testing, and incorporating into system FY 2018 to FY 2019 Increase/Decrease Statement: Funding supports events planned in their respective years.				22.269	20.659	29.957	-	29.957
Title: IFPC Inc 2-I System/Subsystem Logistics Support				-	5.529	2.875	-	2.875

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B. Accomplishments/Planned Programs (\$ in Millions)						
		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Description: Funding is provided for the following efforts: FY 2018 Plans: - Conduct RDT&E logistics and maintenance efforts associated with the Engineering and Manufacturing Development (EMD) phase - Perform logistics engineering and supply chain management activities - Perform logistics and maintenance demonstrations - Conduct validation of logistics publications and manuals FY 2019 Base Plans: - Conduct RDT&E logistics and maintenance efforts associated with the Engineering and Manufacturing Development (EMD) phase - Prepare for MS C and Low Rate Initial Production (LRIP) phase - Perform logistics engineering and supply chain management activities - Perform developmental testing and performance evaluations to include Developmental Test (#2) and Limited User Test (LUT) - Perform logistics and maintenance demonstrations - Conduct verification of logistics publications and manuals FY 2018 to FY 2019 Increase/Decrease Statement: Funding supports events planned in their respective years.						
Title: IFPC Inc 2-I System/Subsystem Developmental Testing Description: Funding is provided for the following efforts: FY 2018 Plans: - Conduct Component Qualification Testing - Conduct Developmental Testing (#1) - Initiate System Qualification Testing - Conduct End-to-End Modeling and Simulation and Performance Analysis Activities - Conduct Cyber Security test activities FY 2019 Base Plans: - Prepare for MS C and Low Rate Initial Production (LRIP) - Continue Component Qualification Testing		-	19.807	28.623	-	28.623

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Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0605052A / Indirect Fire Protection Capability Increment 2				Project (Number/Name) EY7 / IFPC Increment 2 - Block 1				
B. Accomplishments/Planned Programs (\$ in Millions)								FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
- Conduct Developmental Testing (#2) and Limited User Testing (LUT) - Conduct System Qualification Testing - Conduct End-to-End Modeling and Simulation and Performance Analysis Activities - Continue Cyber Security test activities FY 2018 to FY 2019 Increase/Decrease Statement: Funding supports events planned in their respective years.												
Accomplishments/Planned Programs Subtotals								80.781	175.069	157.710	-	157.710
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	
• EF9: System Integration and Test	61.449	78.926	79.283	-	79.283	107.785	111.124	121.376	117.336	0.000	677.279	
• EX2: Lower Tier Air 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	
• DU3: IFPC2	-	11.303	51.030	-	51.030	146.731	132.361	156.732	21.528	0.000	519.685	
• C62002: IFPC INC 2- I BLOCK 1 SYSTEM	19.319	-	31.286	-	31.286	175.576	303.422	273.802	388.377	0.000	1,191.782	
• C62001: IFPC Inc 2-I Block 1 Missile	-	57.742	145.636	-	145.636	143.466	99.516	14.472	-	0.000	460.832	
• 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	

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army									Date: February 2018		
Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0605052A / Indirect Fire Protection Capability Increment 2				Project (Number/Name) EY7 / IFPC Increment 2 - Block 1			
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
• 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											
An independent Cost Benefit Analysis (CBA) was completed in FY2015 and the recommendation was made to continue organic development through the Engineering and Manufacturing Development (EMD) Phase. The Government will fund the Aviation and Missile Research Development and Engineering Center (AMRDEC), U.S Army Aviation and Missile Command Logistic Center (ALC), and Letterkenny Army Depot (LEAD) to continue the development, manufacturing, and testing of the Multi-Mission Launcher (MML) during the Engineering and Manufacturing Development (EMD) phase of the program.											
During the EMD phase, the IFPC Inc 2-I Product Office will award tasks on existing contracts for: Sentinel software modification to support Low Slow Small capability; integration of IFPC Inc 2-I software code into the IAMD C2 architecture with IBCS v5.0 baseline fire control software for Initial Operational Test and Evaluation; AIM-9X Block II interceptor software modification; AIM-9X Block II Weapon Interface Controller and Engagement Calculator software development; MML logistics products development; and complete system Critical Design Review. The IFPC Inc 2-I Product Office will conduct MML qualification testing and will conduct publication validation and verification, training, logistics demonstration, developmental flight testing, support a cyber security assessment, and initiate MML Production Technical Data Package (TDP) independent assessment. The IFPC Inc 2-I Product Office will update its Technology Readiness Assessment and receive results from the MML Production TDP assessment to support the Limited User Test, Milestone C, and the Low Rate Initial Production Decision. The IFPC Inc 2-I Product Office has modified its Acquisition Strategy by re-aligning four MML assets, originally designated as part of LRIP, to be test articles for use in IOT&E and other developmental test activities, as required.											
The IFPC Inc 2-I Product Office will fund AMRDEC to integrate IFPC Inc 2-I software into the IBCS v4.0 baseline to support the Limited User Test, continue component qualification testing, order materials for EMD assets, assemble two MML assets, and support software integration, test and checkout activities in the I2 Lab.											
The IFPC Inc 2-I Product Office will fund LEAD to fabricate components, assemble, and deliver the ten remaining MML assets.											
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 / 5						R-1 Program Element (Number/Name) PE 0605052A / Indirect Fire Protection Capability Increment 2				Project (Number/Name) EY7 / IFPC Increment 2 - Block 1					
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	MIPR	Various : Huntsville, Alabama	-	5.564	Oct 2016	6.834	Oct 2017	6.422	Oct 2018	-		6.422	Continuing	Continuing	Continuing
PM - System Engineering	MIPR	Various : Huntsville, Alabama	-	-		2.852	Oct 2017	1.910	Oct 2018	-		1.910	Continuing	Continuing	Continuing
Subtotal			-	5.564		9.686		8.332		-		8.332	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	MIPR	Multiple Activities : Multiple Locations	-	16.356	Oct 2016	23.513	Oct 2017	12.845	Oct 2018	-		12.845	Continuing	Continuing	Continuing
Engineering and Product Development/Fabrication	MIPR	Multiple Activities : Multiple Locations	-	36.592	Oct 2016	95.875	Oct 2017	73.585	Oct 2018	-		73.585	Continuing	Continuing	Continuing
System/Subsystem Development and Integration	MIPR	Multiple Activities : Multiple Locations	-	22.269	Oct 2016	20.659	Oct 2017	29.957	Oct 2018	-		29.957	Continuing	Continuing	Continuing
Subtotal			-	75.217		140.047		116.387		-		116.387	Continuing	Continuing	N/A
Support (\$ 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
PM Log Support	MIPR	Various : Huntsville, Alabama	-	-		1.429	Oct 2017	0.805	Oct 2018	-		0.805	Continuing	Continuing	Continuing
Log Support	C/FFP	Potomac Wave Consulting, Inc. : Redstone Arsenal	-	-		4.101	Oct 2017	2.070	Oct 2018	-		2.070	Continuing	Continuing	Continuing
Subtotal			-	-		5.530		2.875		-		2.875	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army												Date: February 2018		
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0605052A / Indirect Fire Protection Capability Increment 2				Project (Number/Name) EY7 / IFPC Increment 2 - Block 1				

Test and Evaluation (\$ 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/Subsystem Developmental Testing	IA	Multiple Activities : Multiple Locations	-	-		19.806	Oct 2017	5.664	Oct 2018	-		5.664	Continuing	Continuing	Continuing
System/Subsystem Operational Testing	IA	Multiple Activities : Multiple Locations	-	-		-		24.452	Oct 2018	-		24.452	Continuing	Continuing	Continuing
Subtotal			-	-		19.806		30.116		-		30.116	Continuing	Continuing	N/A

	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract			
Project Cost Totals	-	80.781		175.069		157.710	-		157.710	Continuing	Continuing	N/A

Remarks

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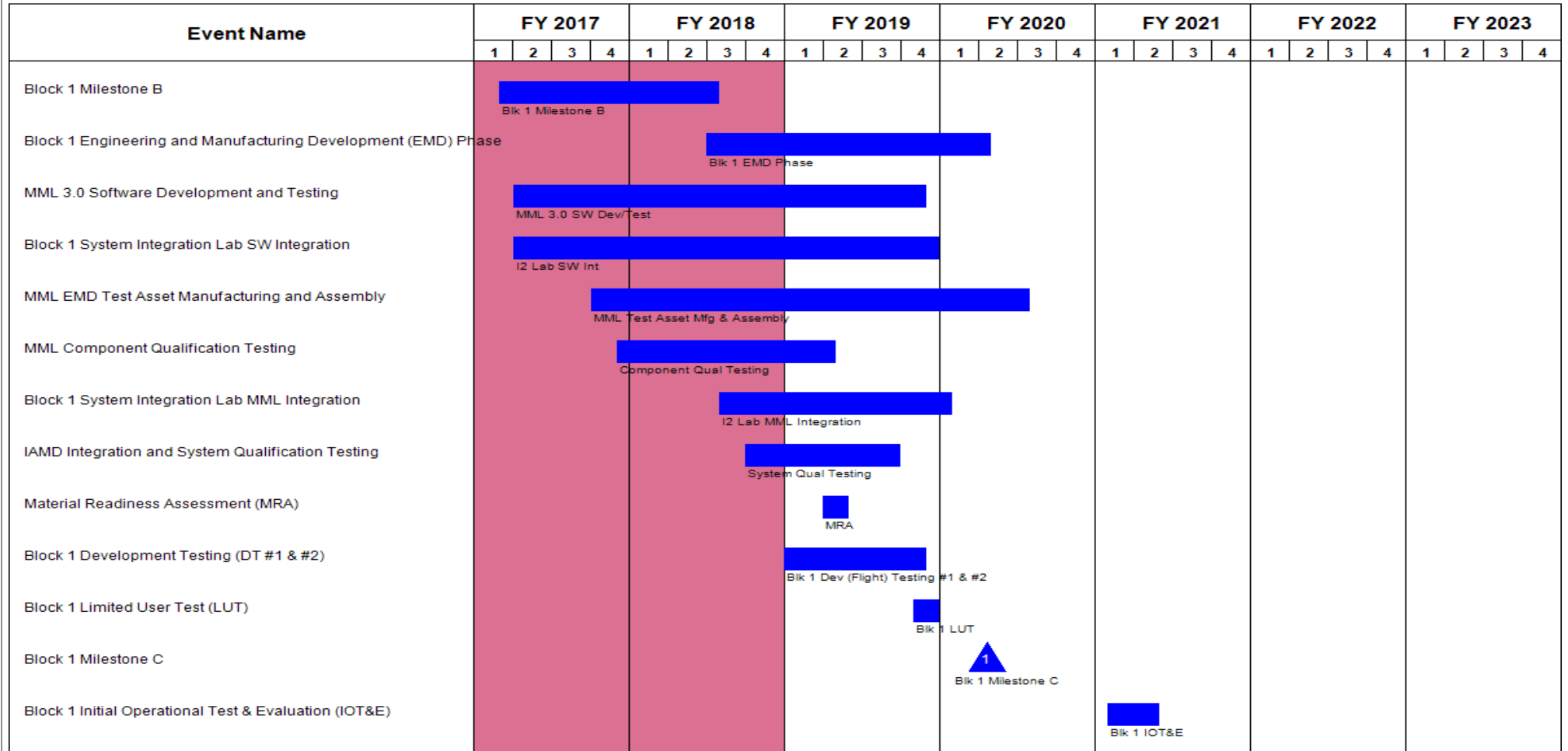
Exhibit R-4, RDT&E Schedule Profile: PB 2019 Army

Date: February 2018

Appropriation/Budget Activity
2040 / 5


R-1 Program Element (Number/Name)
PE 0605052A / Indirect Fire Protection
Capability Increment 2

Project (Number/Name)
EY7 / IFPC Increment 2 - Block 1



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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Army							Date: February 2018						
Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0605052A / <i>Indirect Fire Protection Capability Increment 2</i>				Project (Number/Name) EY7 / <i>IFPC Increment 2 - Block 1</i>					

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 Initial Operational Capability (IOC)																	 Blk 1 IOC											

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Army			Date: February 2018
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605052A / <i>Indirect Fire Protection Capability Increment 2</i>	Project (Number/Name) EY7 / <i>IFPC Increment 2 - Block 1</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Block 1 Milestone B	1	2017	3	2018
Block 1 Engineering and Manufacturing Development (EMD) Phase	3	2018	2	2020
MML 3.0 Software Development and Testing	2	2017	4	2019
Block 1 System Integration Lab SW Integration	2	2017	4	2019
MML EMD Test Asset Manufacturing and Assembly	4	2017	3	2020
MML Component Qualification Testing	4	2017	2	2019
Block 1 System Integration Lab MML Integration	3	2018	1	2020
IAMD Integration and System Qualification Testing	4	2018	3	2019
Material Readiness Assessment (MRA)	2	2019	2	2019
Block 1 Development Testing (DT #1 & #2)	1	2019	4	2019
Block 1 Limited User Test (LUT)	4	2019	4	2019
Block 1 Milestone C	2	2020	2	2020
Block 1 Initial Operational Test & Evaluation (IOT&E)	1	2021	2	2021
Block 1 Initial Operational Capability (IOC)	3	2021	3	2021