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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Army **Date:** March 2023

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605052A / <i>Indirect Fire Protection Capability Inc 2 - Block 1</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	-	175.604	131.093	196.248	-	196.248	154.275	166.672	113.841	135.117	0.000	1,072.850
EY7: <i>IFPC Increment 2 - Block 1</i>	-	175.604	131.093	196.248	-	196.248	154.275	166.672	113.841	135.117	0.000	1,072.850

A. Mission Description and Budget Item Justification

This funding line is directly aligned to one of the Army Air and Missile Defense Modernization Priorities and one of the Air and Missile Defense Cross Functional Team (AMD CFT) programs.

The Indirect Fire Protection Capability Increment 2 (IFPC Inc 2) will provide a ground-based weapon system designed to acquire, track, engage, and defeat Cruise Missiles (CM), Unmanned Aircraft Systems (UAS), Rocket, Artillery, and Mortar (RAM) threats. The IFPC Inc 2 system consists of a launcher and interceptor integrated with the Army Integrated Air and Missile Defense (AIAMD) open systems architecture, IAMD Battle Command System (IBCS), and the Sentinel sensor to support the CM and UAS defeat mission. A Second Interceptor focus will be on supersonic cruise missiles and large caliber rockets.

The IFPC Inc 2 program is a component of an integrated fires development effort that includes survivability, resiliency, and effectiveness improvements against advanced threats from near-peer adversaries. This effort includes component integration, common development tools and processes, and annual test and evaluation to provide data to support program assessments and progress toward closure of performance gaps.

The Army is pursuing the IFPC Inc 2 capability consisting of a launcher and interceptor as the kinetic solution for the primary mission to defeat CM, UAS, and will pursue a Second Interceptor to expands the IFPC Inc 2 system's target set by focusing on supersonic cruise missiles and large caliber rockets. The Second Interceptor program also supports the Air and Missile Defense modernization priorities.

The Army plans to pursue the IFPC High Energy Laser (IFPC HEL) and IFPC High Powered Microwave (IFPC HPM) as complimentary non-kinetic effectors of the IFPC counter-RAM, counter-CM, and counter-UAS missions.

Additionally, section 112 of the National Defense Authorization Act for 2019 directed the Army to deploy an Interim Cruise Missile Defense (CMD) capability. The Army contracted with the Israeli Missile Defense Organization (IMDO) for two Interim CMD (Iron Dome Defense System - Army (IDDS-A)) Batteries and continues efforts to field and sustain two operational IDDS-A Batteries.

The total cost of the IFPC Inc 2 Middle Tier Acquisition (MTA) effort is \$546 million from FY 2021 to FY 2024. The IFPC Inc 2 MTA is fully funded across the Future Years Defense Program.

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B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	182.257	131.093	59.266	-	59.266
Current President's Budget	175.604	131.093	196.248	-	196.248
Total Adjustments	-6.653	0.000	136.982	-	136.982
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-6.653	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	136.982	-	136.982

Change Summary Explanation

Increase of \$136.118 million for 12 IFPC launch systems made up of 12 launchers, 48 interceptors, and 8 magazines for IOT&E and to fund completion of Operational Assessment.

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Army **Date:** March 2023

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605052A / Indirect Fire Protection Capability Inc 2 - Block 1	Project (Number/Name) EY7 / IFPC Increment 2 - Block 1
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
EY7: IFPC Increment 2 - Block 1	-	175.604	131.093	196.248	-	196.248	154.275	166.672	113.841	135.117	0.000	1,072.850
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the Army Air and Missile Defense Modernization Priority.

The Indirect Fire Protection Capability Increment 2 (IFPC Inc 2) will provide a ground-based weapon system designed to acquire, track, engage, and defeat Cruise Missiles (CM), Unmanned Aircraft Systems (UAS), and Rocket, Artillery, and Mortar (RAM) threats. The IFPC Inc 2 system consists of a launcher and interceptor integrated with the Army Integrated Air and Missile Defense (AIAMD) open systems architecture, IAMD Battle Command System (IBCS), and the Sentinel sensor to support the Threshold CM and UAS defeat mission. The Second Interceptor focus will be on supersonic cruise missiles and large caliber rockets.

The Army is pursuing the IFPC Inc 2 capability consisting of a launcher and interceptor as the kinetic solution for the primary mission to defeat CM, UAS, and will pursue a secondary kinetic effector to defeat the IFPC threat set to include RAM threats. The Second Interceptor program supports the Air and Missile Defense modernization priorities, specifically Line of Effort #2, Indirect Fire Protection Capability Increment 2. The Second Interceptor expands the IFPC Inc 2 system's target set by focusing on supersonic cruise missiles and large caliber rockets.

Additionally, the Army plans to pursue the IFPC High Energy Laser (IFPC HEL) and IFPC High Powered Microwave (IFPC HPM) as non-kinetic effectors of the IFPC counter-RAM, counter-CM, and counter-UAS (Class 1 - 3) missions. The IFPC HEL and IFPC HPM elements will be robust, cost effective, and sustainable complementary capabilities to the overall IFPC mission to protect key fixed and semi-fixed sites.

Section 112 of the National Defense Authorization Act for 2019 directed the Army to deploy an Interim Cruise Missile Defense (CMD) capability. The Army contracted with the Israeli Missile Defense Organization (IMDO) for two Interim CMD (Iron Dome Defense System - Army (IDDS-A)) Batteries and continues efforts to field and sustain two operational IDDS-A Batteries.

FY 2024 Base dollars in the amount of \$196.248 million are designated for the development, integration, testing of the IFPC Inc 2 system, the initialization of the IFPC Directed Energy team, and acquisition of 12 IFPC launch systems for Initial Operational Test & Evaluation (IOT&E). IFPC Inc 2 is scheduled for a Milestone C decision in FY 2024.

The total cost of the IFPC Inc 2 Middle Tier Acquisition (MTA) effort is \$546 million from FY 2021 to FY 2024. The IFPC Inc 2 MTA is fully funded across the Future Years Defense Program.

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

	FY 2022	FY 2023	FY 2024
Title: Interim CMD (Iron Dome Defense System - Army) Integration and Testing	5.335	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: March 2023		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605052A / <i>Indirect Fire Protection Capability Inc 2 - Block 1</i>	Project (Number/Name) EY7 / <i>IFPC Increment 2 - Block 1</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
Description: Funding is provided to support the assessment of operational utility and safety of the Iron Dome Defense System-Army (IDDS-A) as an Interim IFPC Inc 2 capability				
Title: IFPC Inc 2 Prototype Development, Integration, Manufacturing, and Testing		170.269	125.063	192.311
Description: Funding is provided to support the development, integration, prototype manufacturing, and testing of the IFPC Inc 2 capability				
FY 2023 Plans:				
<ul style="list-style-type: none"> - Incremental funding for delivery of IFPC Inc 2 prototype launchers and interceptors - Continue IFPC Inc 2 launcher and interceptor model and simulation efforts to provide alternate means to prove out system capabilities while reducing live fire test event requirements - Continue Interoperability End-to-End simulations and testing, to include updating the GSIL's Hardware-in-the-Loop elements with selected prototype hardware - Evaluate Operator and Maintainer Interfaces with Soldiers: Technical User and Maintenance Manuals, internal Maintenance Troubleshooting software, internal training software, RT3 software update for IFPC system, update to IBCS mission command SW tools (i.e., Integrated Defense Designer tool to inform for optimal coverage and protection) - Evaluate trainer hardware and software packages for institutional Operators and Maintainers training at ADA School and NG Training Sites - Continue developmental, operational, and Integrated Fires testing to ensure operational supportability while minimizing the logistical footprint - Prototype design changes to test assets 				
FY 2024 Plans:				
<ul style="list-style-type: none"> - Final incremental funding for IFPC Inc 2 OTA Firm Fixed Price contract - Continue utilizing a Middle Tier Acquisition (MTA) Rapid prototyping approach while preparing for Milestone C decision point - Continue qualification and operational testing, to include an Operational Assessment, to ensure operational supportability while minimizing the logistical footprint - Procure 12 IFPC launch systems consisting of 12 launchers, 48 interceptors, and 8 magazines for Initial Operational Test & Evaluation (IOT&E) 				
FY 2023 to FY 2024 Increase/Decrease Statement:				
FY 2023 to FY 2024 increase to procure 12 launchers, 48 interceptors, and 8 magazines for IOT&E.				
Title: IFPC Directed Energy Integration and Test		-	1.245	2.300
FY 2023 Plans:				

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605052A / <i>Indirect Fire Protection Capability Inc 2 - Block 1</i>	Project (Number/Name) EY7 / <i>IFPC Increment 2 - Block 1</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
The IFPC Inc 2 Product Office will establish an initial IFPC Direct Energy team to coordinate the transfer of responsibility, as well as, determine IFPC Inc 2 Product Office requirements for these products FY 2024 Plans: Continue to support an IFPC Direct Energy team to coordinate the transfer of responsibility, as well as determine IFPC Inc 2 Product Office requirements for these products FY 2023 to FY 2024 Increase/Decrease Statement: Increase in IFPC DE transition team to support the programmatic and systems engineering efforts.			
Title: IFPC Second Interceptor Development and Test FY 2024 Plans: Funding is to support initiation of the IFPC Second Interceptor program. Development of contract requirement package, planning for contract award, conduct of analyses, and development of acquisition documentation to support initiation of the Second Interceptor program. FY 2023 to FY 2024 Increase/Decrease Statement: Funding increase from FY 2023 to FY 2024 for initiation of IFPC Second Interceptor Development and Test.	-	-	1.637
Title: SBIR/STTR FY 2023 Plans: Funding transferred in accordance with Title 15 USC §638. FY 2023 to FY 2024 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC §638.	-	4.785	-
Accomplishments/Planned Programs Subtotals	175.604	131.093	196.248

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
• C62002: <i>IFPC INC 2- I BLOCK 1 SYSTEM</i>	19.053	18.924	313.189	-	313.189	697.307	1,002.324	1,023.636	985.973	0.000	4,060.406
• E10: <i>Sentinel</i>	124.832	71.259	94.944	-	94.944	48.837	18.987	8.508	8.603	0.000	375.970
• WK5057: <i>Sentinel Mods</i>	100.642	166.736	161.886	-	161.886	233.368	501.923	504.229	548.401	Continuing	Continuing
• S40: <i>Army Integrated Air and Missile Defense</i>	154.257	263.545	254.163	-	254.163	355.723	214.394	135.637	166.652	0.000	1,544.371

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C. Other Program Funding Summary (\$ in Millions)

Line Item	FY 2022	FY 2023	FY 2024	FY 2024	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Cost To	
			Base	OCO	Total					Complete	Total Cost
• BZ5075: <i>IAMD Battle Command System</i>	399.800	438.967	412.556	-	412.556	509.654	572.362	658.046	442.781	Continuing	Continuing
• BU9: <i>IFPC High Energy Laser</i>	7.957	215.343	85.852	-	85.852	359.412	778.029	2,120.659	1,592.164	0.000	5,159.416
• CO6: <i>IFPC High Power Microwave (HPM)</i>	18.898	42.977	11.166	-	11.166	4.023	-	-	-	0.000	77.064

Remarks

This program is an integral part of the Army Integrated Air and Missile Defense (AIAMD) architecture.

D. Acquisition Strategy

As reported to Congress in Oct 2018, the Army has rapidly fielded an Interim CMD capability with the Israeli Iron Dome Defense System - Army (IDDS-A). Concurrently, the Army has initiated efforts to integrate an enduring IFPC capability of a launcher and interceptor leveraging the AIAMD open systems architecture and IBCS, as the Fire Control component, and the US Sentinel sensor.

On 9 Feb 2019, the Army approved a Directed Requirement to initiate procurement of the Israeli IDDS-A for the Interim CMD capability. Congress approved ATR actions to align IFPC FY 2018 and 2019 Procurement to fund the Interim CMD (IDDS-A) purchase and to repurpose the FY 2019 RDTE funds in May 2019 for associated system evaluation. To support the Interim CMD (IDDS-A) requirement, the Army contracted for two Interim CMD (IDDS-A) Batteries for technical evaluation, assessment of operational utility, and safety evaluation. Additionally, the IFPC program has performed logistics analysis and assessments to determine IDDS-A training requirements, fielding requirement, spares packages, maintenance policies, and required Operational and Maintenance documentation. IFPC conducted Performance Analysis and Operational Testing of the Interim CMD (IDDS-A) capability at White Sands Missile Range in FY 2021 to prove out their readiness for deployment.

In support of the Army's enduring Cruise Missile Defense requirement, the Army is utilizing a Middle Tier Acquisition (MTA) Rapid Prototyping approach to evaluate new capability and provide an initial capability, while transitioning into Production and Deployment phase by FY 2024. In support of the IFPC Inc 2 solution, the Army pursued a competitive strategy that saw Industry participating in a "Shoot Off" demonstration in FY 2021 using Industries' proposed launcher and missile solutions integrated with the Army's IBCS and Sentinel radar. The Army has evaluated Industry proposals informed by models and simulations, hardware-in-the-loop, and live fire data, to make a Best Value recommendation to proceed to a single vendor to deliver the IFPC Inc 2 prototype solution. The Army awarded a Firm Fixed Price Other Transaction Authority (OTA) agreement to Dynetics, Inc. on 24 September 2021 to deliver the IFPC Inc 2 prototype solution. The MTA contract will run through mid-FY 2024.

The IFPC Inc 2 program is a component of an integrated fires development effort that includes survivability, resiliency, and effectiveness improvements against advanced threats from near-peer adversaries. This effort includes component integration, common development tools and processes, and annual test and evaluation to provide data to support program assessments and progress toward closure of performance gaps.

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605052A / <i>Indirect Fire Protection Capability Inc 2 - Block 1</i>	Project (Number/Name) EY7 / <i>IFPC Increment 2 - Block 1</i>
<p>In support of the IFPC Inc 2 system test and evaluation, the program office will acquire AIM-9X interceptors from the Navy contract and Launchers with AUR-Ms from Dynetics. The program will fully fund the assets to meet the delivery schedule required to perform IOT&E in FY 2025.</p> <p>The Army is pursuing the IFPC Inc 2 capability consisting of a launcher and interceptor as the kinetic solution for the primary mission to defeat CM, UAS, and will pursue a Second Interceptor to expands the IFPC Inc 2 system's target set by focusing on supersonic cruise missiles and large caliber rockets. Also, the Second Interceptor program supports the Air and Missile Defense modernization priorities.</p> <p>Additionally, the Army plans to pursue the IFPC High Energy Laser (IFPC HEL) and IFPC High Powered Microwave (IFPC HPM) as non-kinetic effectors of the IFPC counter-RAM, counter-CM, and counter-UAS missions. The Army Rapid Capabilities and Critical Technologies Office (RCCTO) currently manages the IFPC HEL and IFPC HPM programs, which are planned for transition of responsibility to the IFPC Product Office in FY 2025. The IFPC Inc 2 Product Office will establish an initial IFPC Direct Energy team to coordinate the transfer of responsibility, as well as determine IFPC Inc 2 Product Office requirements for these products starting in FY 2023. Current planning assumes the products will require additional development, integration with the AIAMD architecture, and testing.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army **Date:** March 2023

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605052A / Indirect Fire Protection Cap ability Inc 2 - Block 1	Project (Number/Name) EY7 / IFPC Increment 2 - Block 1
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Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Travel/Program Management	Various	Various : Various	1.570	0.425	May 2022	1.337	Oct 2022	0.682	Oct 2023	-		0.682	Continuing	Continuing	Continuing
SBIR/STTR	Various	Various : Various	-	-		4.785		-		-		-	0.000	4.785	-
Subtotal			1.570	0.425		6.122		0.682		-		0.682	Continuing	Continuing	N/A

Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Interim CMD (IDDS-A) - System Dev & Interoperability External Spt	Various	Multiple Activities : Multiple Locations	4.475	5.335	May 2022	-		-		-		-	0.000	9.810	-
IFPC - System Eng & Integration	Various	Multiple Activities : Huntsville, AL	63.159	15.030	Jun 2022	18.251	Oct 2022	11.140	Oct 2023	-		11.140	Continuing	Continuing	Continuing
IFPC System Dev and Integration External Support	Various	Multiple Activities : Huntsville, AL	64.624	21.497	Jul 2022	73.275	Oct 2022	37.215	Oct 2023	-		37.215	Continuing	Continuing	Continuing
IFPC Contractor Prototype Dev / Int / Mfg / Log & Test Spt	C/FFP	Launcher and AUR-M Development : Dynetics - Huntsville, AL	104.837	56.508	Jun 2022	15.570	Mar 2023	1.500	Jan 2024	-		1.500	Continuing	Continuing	Continuing
IFPC Prototype GFE Hardware	Various	Multiple Activities : Multiple Locations	-	61.192	Nov 2022	-		-		-		-	0.000	61.192	-
IFPC Directed Energy Integration Support (Transition Team)	Various	Multiple Activities : Huntsville, AL	-	-		1.245	Apr 2023	2.300	Jan 2024	-		2.300	Continuing	Continuing	Continuing
IFPC Second Interceptor Support	C/TBD	Multiple Activities : Huntsville, AL	-	-		-		1.637	Jan 2024	-		1.637	0.000	1.637	-
IFPC IOT&E Contractor Hardware	SS/FP	Dynetics : Huntsville, AL	-	-		-		79.715	Mar 2024	-		79.715	0.000	79.715	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army												Date: March 2023			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0605052A / Indirect Fire Protection Capability Inc 2 - Block 1				EY7 / IFPC Increment 2 - Block 1							
Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
IFPC IOT&E Interceptors / GFE	Various	US Navy : Huntsville, AL	-	-		-		34.427	Mar 2024	-		34.427	0.000	34.427	-
Subtotal			237.095	159.562		108.341		167.934		-		167.934	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
IFPC Log Support	Various	Multiple Activities : Huntsville, AL	15.398	7.225	Jul 2022	3.444	Nov 2022	4.118	Nov 2023	-		4.118	Continuing	Continuing	-
Subtotal			15.398	7.225		3.444		4.118		-		4.118	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
IFPC PM Testing Support	IA	Multiple Activities : Huntsville, AL	3.801	1.155	Jun 2022	1.883	Nov 2022	2.445	Nov 2023	-		2.445	Continuing	Continuing	Continuing
IFPC Developmental / Operational Testing	IA	Developmental and Operational Tests : Multiple Locations	0.716	7.237	May 2022	10.265	Nov 2022	21.069	Nov 2023	-		21.069	Continuing	Continuing	Continuing
Integrated Fires (IF) SoS Interoperability Testing	IA	Integrated Fires (IF) SoS Interoperability Testing : Huntsville, AL	-	-		1.038	Apr 2023	-		-		-	Continuing	Continuing	Continuing
Subtotal			4.517	8.392		13.186		23.514		-		23.514	Continuing	Continuing	N/A
Project Cost Totals			258.580	175.604		131.093		196.248		-		196.248	Continuing	Continuing	N/A

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	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
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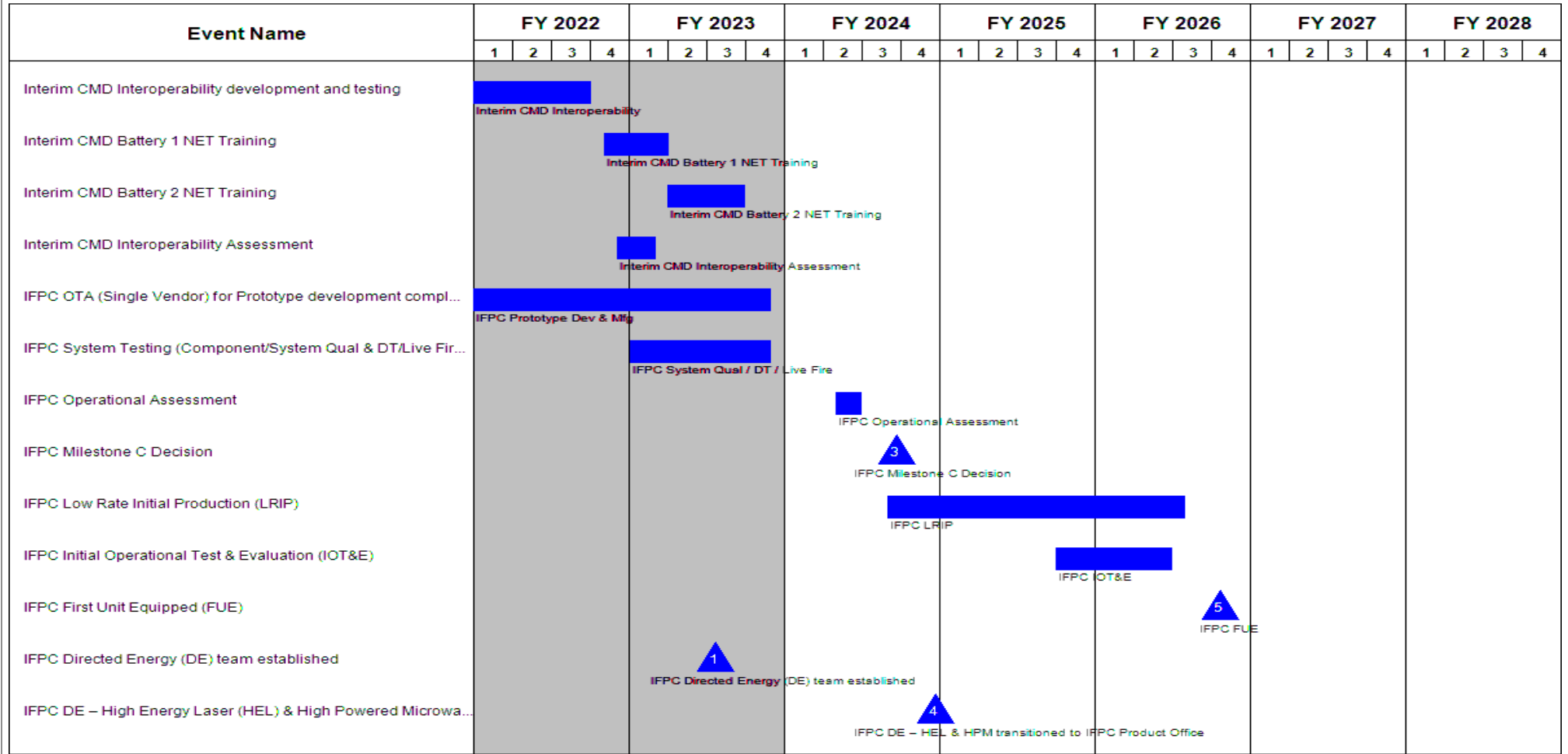
Remarks

IFPC Contractor Prototype Dev / Int / Mfg / Log & Test Spt funding was awarded to Dynetics, Inc with Raytheon as a subcontractor.

The prototype interceptor funding originally awarded to Dynetics in June 2022 was de-obligated and placed on contract with the Navy. These FY 2022 funds were awarded to the Navy in November and December 2022.

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605052A / Indirect Fire Protection Cap ability Inc 2 - Block 1	Project (Number/Name) EY7 / IFPC Increment 2 - Block 1



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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Army		Date: March 2023
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Event Name	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
	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
IFPC DE – HEL Prototyping																												
IFPC DE – HPM Prototyping																												
IFPC 2nd Interceptor Prototyping																												
IFPC Buy Launcher, AUR-M, Missile Assets for IOT&E													2															

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Army		Date: March 2023
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
National Defense Authorization Act for FY2019 directed IFPC Report to Congress	1	2019	1	2019
Interim CMD Directed Requirement - Interim CMD System	2	2019	2	2019
Interim CMD Title 10, Para 2373 Contract Award for Interim Iron Dome Btrys 1&2	4	2019	4	2019
Interim CMD Capability Integration and Test Activities	1	2020	4	2020
Interim CMD Interoperability development and testing	4	2020	3	2022
Interim CMD 1st IDDS-A Battery Delivery	1	2021	1	2021
Interim CMD 2nd IDDS-A Battery Delivery	2	2021	2	2021
Interim CMD Live Fire Performance Testing	4	2021	4	2021
Interim CMD Safety Confirmation/Capabilities & Limitations Testing	4	2021	4	2021
Interim CMD Urgent Materiel Release for Deployment of Batteries 1&2	4	2021	4	2021
Interim CMD Battery 1 NET Training	4	2022	1	2023
Interim CMD Battery 2 NET Training	2	2023	3	2023
Interim CMD Interoperability Assessment	4	2022	1	2023
IFPC MDA Decision Point for Middle Tier Acquisition Strategy	4	2021	4	2021
IFPC OTA (Single Vendor) for Prototype development completion and manufacturing	4	2021	4	2023
IFPC System Testing (Component/System Qual & DT/Live Fire Testing)	1	2023	4	2023
IFPC Operational Assessment	2	2024	2	2024
IFPC Milestone C Decision	3	2024	3	2024
IFPC Low Rate Initial Production (LRIP)	3	2024	3	2026
IFPC Initial Operational Test & Evaluation (IOT&E)	4	2025	2	2026
IFPC First Unit Equipped (FUE)	4	2026	4	2026
IFPC Directed Energy (DE) team established	3	2023	3	2023

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Army **Date:** March 2023

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605052A / <i>Indirect Fire Protection Capability Inc 2 - Block 1</i>	Project (Number/Name) EY7 / <i>IFPC Increment 2 - Block 1</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
IFPC DE - High Energy Laser (HEL) & High Powered Microwave (HPM) Mgt Trans to PO	4	2024	4	2024
IFPC DE - HEL Prototyping	1	2025	4	2028
IFPC DE - HPM Prototyping	1	2025	4	2028
IFPC 2nd Interceptor Prototyping	2	2024	2	2029
IFPC Buy Launcher, AUR-M, Missile Assets for IOT&E	2	2024	2	2024

Note

CMD: Cruise Missiles Defense
 FUE: First Unit Equipped
 FY: Fiscal Year
 IFPC: Indirect Fire Protection Capability
 HEL: High Energy Laser
 HPM: High Powered Microwave