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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2025 Army **Date:** March 2024

<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604854A / <i>Artillery Systems - EMD</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	42.261	42.490	50.495	-	50.495	84.729	81.596	76.787	84.339	Continuing	Continuing
516: <i>Paladin/FAASV</i>	-	17.261	42.490	42.479	-	42.479	76.713	73.580	68.771	76.323	Continuing	Continuing
DH7: <i>Next Generation Howitzer</i>	-	-	-	8.016	-	8.016	8.016	8.016	8.016	8.016	0.000	40.080
HB6: <i>Mobile 155MM Howitzer</i>	-	25.000	-	-	-	-	-	-	-	-	0.000	25.000

**Note**

Project DH7 / Next Generation Howitzer is a new start within the Artillery Systems - EMD program in FY 2025.

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

This program element encompasses engineering and manufacturing development for artillery weapons systems.

Project Paladin/FAASV 516 to modernize the Self-Propelled Howitzer and Ammunition Resupply Vehicle Fleet to improve performance and address expected changes in the operational profile. The Self-Propelled Howitzer is an indirect fire weapon system with the ability of delivering accurate, long range, lethal and non-lethal cannon fires in support of both Combined Arms Maneuver (CAM) and Wide Area Security (WAS) operations. The Self-Propelled Howitzer and Ammunition Resupply Vehicle can be employed within any Brigade Combat Team formation to neutralize, suppress, or destroy enemy forces, while providing protected transport of a field artillery howitzer section on the modern battlefield. Funding also supports work being completed at the Watervliet Arsenal (WVA) in Watervliet, NY.

This effort will include system usage and optimization studies, simulations, development engineering, prototype development and validation for incremental upgrades on the Self-Propelled Howitzer and Ammunition Resupply Vehicle.

Project DH7 supports the Next Generation Howitzer Program. The Next Generation (NG) Howitzer will provide highly mobile, survivable, versatile, transportable, longer range fire support under a broad set of challenging operational conditions against current and emerging, small to large scale threats through 2040 and beyond. NG Howitzer reduces emplacement and displacement times, provides increased crew survivability and better cross-country mobility, adds overall effectiveness, and affords improved fire support capability for Field Artillery formations well beyond what towed howitzer systems can provide. The NG Howitzer initial characterization establishes a firm foundation for proposed mobile howitzers while allowing for incremental improvements and updates as technologies continue to mature. Future incremental improvements will maintain and enhance performance, lethality, responsiveness, and reliability of our cannon weapon systems across the required spectrum of military operations. NG Howitzer supports Army 2040 and our ability to compete in all domains and allow for freedom of maneuver. Activities will include safety testing, US ammunition compatibility testing, and assessment of mobility, survivability and transportability.

Project HB6 supports the mobile howitzer program. The Mobile 155mm Howitzer is a Self-Propelled, 155mm Wheeled Howitzer that provides lethal, proactive counter-fire essential for the survivability of the maneuver formations and other close support fires as required. The Mobile Howitzer improves the Field Artillery Battalion's ability to maintain pace with its supporting maneuver formations and survive against responsive, counter-fire from near-peer threats with rapid displacement and emplacement

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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2025 Army **Date:** March 2024

<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604854A / <i>Artillery Systems - EMD</i>
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times. The mobile howitzer will improve tactical mobility and system survivability compared to existing towed howitzer systems. Development efforts, prototyping and evaluations will focus on attributes such as improved emplacement and displacement times, driving speed, and crew protection capabilities, all without sacrificing lethality versus existing towed howitzer systems. Program activities focused on evaluation of multiple vendor mobile howitzer systems at United States proving grounds against system requirements. Evaluation will include safety testing, US ammunition compatibility testing, and assessment of mobility, survivability and transportability.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Previous President's Budget	48.106	42.490	70.518	-	70.518
Current President's Budget	42.261	42.490	50.495	-	50.495
Total Adjustments	-5.845	0.000	-20.023	-	-20.023
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-5.002	-			
• SBIR/STTR Transfer	-0.843	-			
• Adjustments to Budget Years	-	-	-20.023	-	-20.023

**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

**Project:** HB6: *Mobile 155MM Howitzer*

Congressional Add: *Soft Recoil Development*

	<b>FY 2023</b>	<b>FY 2024</b>
	25.000	-
Congressional Add Subtotals for Project: HB6	25.000	-
Congressional Add Totals for all Projects	25.000	-

**Change Summary Explanation**

The decrease in FY25 funding from the previous PB to the current PB reflects the net effect of an FY25 reduction (\$28.039 million) which aligns the Paladin/FAASV project with trade study results which are targeted for completion in the 1st Quarter of FY 2024 and an FY25 increase (\$8.016 million) to support the Next Generation Howitzer Program, which focuses on Trade Studies and Analysis and Cannon System Development.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 2040 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0604854A / <i>Artillery Systems - EMD</i>				<b>Project (Number/Name)</b> 516 / <i>Paladin/FAASV</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
516: <i>Paladin/FAASV</i>	-	17.261	42.490	42.479	-	42.479	76.713	73.580	68.771	76.323	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Project Paladin/FAASV to modernize the Self-Propelled Howitzer and Ammunition Resupply Vehicle Fleet to improve performance and address expected changes in the operational profile. The Self-Propelled Howitzer is an indirect fire weapon system with the ability of delivering accurate, long range, lethal and non-lethal cannon fires in support of both Combined Arms Maneuver (CAM) and Wide Area Security (WAS) operations. The Self-Propelled Howitzer and Ammunition Resupply Vehicle can be employed within any Brigade Combat Team formation to neutralize, suppress, or destroy enemy forces, while providing protected transport of a field artillery howitzer section on the modern battlefield. Funding also supports work being completed at the Watervliet Arsenal (WVA) in Watervliet, NY.

This effort will include system usage and optimization studies, simulations, development engineering, prototype development and validation for incremental upgrades on the Self-Propelled Howitzer and Ammunition Resupply Vehicle.

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<p><b>Title:</b> Program Management</p> <p><b>Description:</b> Funding is provided for all Program Management support efforts.</p> <p><b>FY 2024 Plans:</b> Develop and manage detailed schedules for modernization activities, execute prototype orders, and begin development, production, and coordination for all required programmatic documents.</p> <p><b>FY 2025 Plans:</b> Develop and manage detailed schedules for modernization activities, execute prototype orders, and begin development, production, and coordination for all required programmatic documents.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Funding decreased from FY 2024 to FY 2025 due to change in acquisition strategy.</p>	3.690	3.733	0.398
<p><b>Title:</b> Developmental Engineering</p> <p><b>Description:</b> Conduct development engineering efforts, perform system usage and optimization studies, perform simulations, develop a proposed system configuration to be matured, material and labor required in support of prototype manufacturing efforts.</p> <p><b>FY 2024 Plans:</b> Continue engineering development activities to include studies and design reviews. Place orders for prototype material.</p> <p><b>FY 2025 Plans:</b></p>	13.571	38.757	39.763

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army	<b>Date:</b> March 2024
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<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604854A / <i>Artillery Systems - EMD</i>	<b>Project (Number/Name)</b> 516 / <i>Paladin/FAASV</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2023	FY 2024	FY 2025
Continue engineering development activities.			
<b><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i></b> Slight increase from FY 2024 to FY 2025 due to increased development engineering efforts.			
<b><i>Title:</i></b> Test and Evaluation <b><i>Description:</i></b> This funding supports all Testing and Evaluation for the Armament Modernization effort.	-	-	2.318
<b><i>FY 2025 Plans:</i></b> Complete test plans and kick off development testing.			
<b><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i></b> New funding due to testing efforts that begin in FY 2025.			
<b>Accomplishments/Planned Programs Subtotals</b>	17.261	42.490	42.479

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

**Remarks**

**D. Acquisition Strategy**  
The Self-Propelled Howitzer modernization will leverage Government and Government support contractors, as well as contract mechanisms to prototype, test, and evaluate technologies for the development and validation of modernization efforts.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604854A / <i>Artillery Systems - EMD</i>	<b>Project (Number/Name)</b> 516 / <i>Paladin/FAASV</i>
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<b>Management Services (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
SEPM Government	MIPR	Various : Various	-	1.826	Dec 2022	1.848	Dec 2023	0.398	Dec 2024	-		0.398	0.000	4.072	-
SEPM Contractor	TBD	Various : Various	-	1.864	Mar 2023	1.885	Mar 2024	-		-		-	0.000	3.749	-
<b>Subtotal</b>			-	3.690		3.733		0.398		-		0.398	0.000	7.821	N/A

<b>Product Development (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Development Engineering	TBD	TBD : TBD	-	12.014	Mar 2023	18.295	Mar 2024	39.763	Mar 2025	-		39.763	0.000	70.072	-
Production, Engineering, Planning	TBD	TBD : TBD	-	0.499	Mar 2023	0.501	Mar 2024	-		-		-	0.000	1.000	-
Development Tooling	TBD	TBD : TBD	-	0.006	Mar 2023	0.006	Mar 2024	-		-		-	0.000	0.012	-
Prototype Manufacturing	TBD	TBD : TBD	-	-		17.332	Mar 2024	-		-		-	0.000	17.332	-
<b>Subtotal</b>			-	12.519		36.134		39.763		-		39.763	0.000	88.416	N/A

<b>Support (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Data	TBD	TBD : TBD	-	0.918	Mar 2023	1.058	Mar 2024	-		-		-	0.000	1.976	-
Support Equipment	TBD	TBD : TBD	-	0.134	Mar 2023	0.134	Mar 2024	-		-		-	0.000	0.268	-
Other	TBD	TBD : TBD	-	-		1.431	Mar 2024	-		-		-	0.000	1.431	-
<b>Subtotal</b>			-	1.052		2.623		-		-		-	0.000	3.675	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Test and Evaluation	TBD	TBD : TBD	-	-		-		2.318	Mar 2025	-		2.318	0.000	2.318	-
<b>Subtotal</b>			-	-		-		2.318		-		2.318	0.000	2.318	N/A



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**Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604854A / <i>Artillery Systems - EMD</i>	<b>Project (Number/Name)</b> 516 / <i>Paladin/FAASV</i>
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Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	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
Developmental Engineering																												
Prototype Manufacturing																												
Prototype/System Level Test and Validation																												

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2025 Army **Date:** March 2024

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604854A / <i>Artillery Systems - EMD</i>	<b>Project (Number/Name)</b> 516 / <i>Paladin/FAASV</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Developmental Engineering	2	2023	3	2028
Prototype Manufacturing	2	2024	3	2026
Prototype/System Level Test and Validation	3	2025	2	2029

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 2040 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0604854A / <i>Artillery Systems - EMD</i>				<b>Project (Number/Name)</b> DH7 / <i>Next Generation Howitzer</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
DH7: <i>Next Generation Howitzer</i>	-	-	-	8.016	-	8.016	8.016	8.016	8.016	8.016	0.000	40.080
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**  
Next Generation Howitzer is a new start within the Artillery Systems - EMD program in FY 2025.

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

Project DH7 supports the Next Generation Howitzer Program. The Next Generation (NG) Howitzer will provide highly mobile, survivable, versatile, transportable, longer range fire support under a broad set of challenging operational conditions against current and emerging, small to large scale threats through 2040 and beyond. NG Howitzer reduces emplacement and displacement times, provides increased crew survivability and better cross-country mobility, adds overall effectiveness, and affords improved fire support capability for Field Artillery formations well beyond what towed howitzer systems can provide. The NG Howitzer initial characterization establishes a firm foundation for proposed mobile howitzers while allowing for incremental improvements and updates as technologies continue to mature. Future incremental improvements will maintain and enhance performance, lethality, responsiveness, and reliability of our cannon weapon systems across the required spectrum of military operations. NG Howitzer supports Army 2040 and our ability to compete in all domains and allow for freedom of maneuver. Activities will include safety testing, US ammunition compatibility testing, and assessment of mobility, survivability and transportability.

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<b>Title:</b> Trade Studies and Analysis	-	-	4.000
<b>FY 2025 Plans:</b> Funding supports evaluations of existing capabilities versus attributes such as improved emplacement and displacement times, driving speed, US ammunition compatibility, and crew protection capabilities, all without sacrificing lethality versus existing and future howitzer systems.			
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> DH7 is a new start for FY 2025.			
<b>Title:</b> Cannon System Development	-	-	4.016
<b>FY 2025 Plans:</b> Funds support the development of the next generation cannon system to integrate into the NG Howitzer.			
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> DH7 is a new start for FY 2025.			
<b>Accomplishments/Planned Programs Subtotals</b>	-	-	8.016

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army	<b>Date:</b> March 2024
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<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604854A / <i>Artillery Systems - EMD</i>	<b>Project (Number/Name)</b> DH7 / <i>Next Generation Howitzer</i>
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**C. Other Program Funding Summary (\$ in Millions)**

N/A

**Remarks**

**D. Acquisition Strategy**

The acquisition strategy for the NG Howitzer program is to evaluate existing industry prototypes and fielded systems and assess capability of mobility and survivability attributes, utilizing US ammunition capability.



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**Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604854A / <i>Artillery Systems - EMD</i>	<b>Project (Number/Name)</b> DH7 / <i>Next Generation Howitzer</i>
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Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	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
Trade Studies and Analysis																												
Trade Studies and Analysis																												
Cannon Development																												
Cannon Development																												

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2025 Army **Date:** March 2024

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604854A / <i>Artillery Systems - EMD</i>	<b>Project (Number/Name)</b> DH7 / <i>Next Generation Howitzer</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Trade Studies and Analysis	1	2025	4	2029
Cannon Development	1	2025	1	2030

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**Exhibit R-2A, RDT&E Project Justification:** PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604854A / Artillery Systems - EMD				Project (Number/Name) HB6 / Mobile 155MM Howitzer			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
HB6: <i>Mobile 155MM Howitzer</i>	-	25.000	-	-	-	-	-	-	-	-	0.000	25.000
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Project HB6 supports the mobile howitzer program. The Mobile 155 millimeter (mm) Howitzer is a Self-Propelled, 155mm Wheeled Howitzer that provides lethal, proactive counter-fire essential for the survivability of the maneuver formations and other close support fires as required. The Mobile Howitzer improves the Field Artillery Battalion's ability to maintain pace with its supporting maneuver formations and survive against responsive, counter-fire from near-peer threats with rapid displacement and emplacement times. The mobile howitzer will improve tactical mobility and system survivability compared to existing towed howitzer systems. Development efforts, prototyping and evaluations will focus on attributes such as improved emplacement and displacement times, driving speed, and crew protection capabilities, all without sacrificing lethality versus existing and future towed howitzer systems.

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

	FY 2023	FY 2024
<b>Congressional Add:</b> Soft Recoil Development	25.000	-
<b>FY 2023 Accomplishments:</b> Funds support the continued development and testing of soft recoil systems for possible utilization in current and future artillery systems.		
<b>Congressional Adds Subtotals</b>	25.000	-

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

N/A

**Remarks**

**D. Acquisition Strategy**

The acquisition strategy for the Mobile Howitzer Program is to evaluate existing industry prototypes and fielded systems and assess capability of mobility and survivability attributes. Evaluation will be conducted by US Army engineers and the Army Test and Evaluation Command.



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**Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604854A / <i>Artillery Systems - EMD</i>	<b>Project (Number/Name)</b> HB6 / <i>Mobile 155MM Howitzer</i>
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Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	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
Soft Recoil Development																												

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2025 Army **Date:** March 2024

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604854A / <i>Artillery Systems - EMD</i>	<b>Project (Number/Name)</b> HB6 / <i>Mobile 155MM Howitzer</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Mobile Howitzer Analysis	1	2020	3	2020
Testing and Engineering Support	3	2020	4	2021
Bid Sample Test	3	2021	4	2021
105MM Mobile Howitzer System Evaluation	2	2021	4	2021
Soft Recoil Development	2	2021	4	2024