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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Army **Date:** February 2020

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 3: Advanced Technology Development (ATD)</i>	R-1 Program Element (Number/Name) PE 0603607A / <i>Joint Service Small Arms Program</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	-	22.628	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	22.628
627: <i>Jt Svc Sa Prog (JSSAP)</i>	-	5.708	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	5.708
62D: <i>SMALL ARMS ADVANCED TECHNOLOGY DEV (CA)</i>	-	16.920	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	16.920

Note

In Fiscal Year 2020 (FY20) this Program Element (PE) was realigned with continuity of effort to the following PE:
 * PE 0603118A Soldier Lethality Advanced Technology

A. Mission Description and Budget Item Justification

This Program Element (PE) matures and demonstrates advanced technologies that provide greater lethality, target acquisition, fire control, and range at a significantly reduced weight. These technologies lighten the Soldier's load, provide improved battlefield mobility, and reduce logistics burden while maintaining or improving current levels of performance.

Efforts in this PE support the Army Science and Technology Lethality Portfolio.

In FY19, work in this PE was related to and fully integrated with the efforts funded in PE 0602623A (Joint Service Small Arms Program), PE 0602624A (Weapons and Munitions Technology) and PE 0602618A (Ballistic Technology). Beginning in FY20, work in this PE is related to, and fully coordinated with PE 0603118A (Soldier Lethality Advanced Technology).

The cited work is consistent with the Under Secretary of Defense for Research and Engineering priority focus areas and the Army Modernization Strategy. All FY20 adjustments align program financial structure to Army Modernization Priorities in support of the National Defense Strategy.

The work in this PE is performed by the United States Army Futures Command (AFC)

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B. Program Change Summary (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	22.799	0.000	0.000	-	0.000
Current President's Budget	22.628	0.000	0.000	-	0.000
Total Adjustments	-0.171	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.171	-			

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

Project: 62D: *SMALL ARMS ADVANCED TECHNOLOGY DEV (CA)*

Congressional Add: *Next Generation Squad Weapon - Carbine*

Congressional Add: *Next Generation Squad Weapon Ammunition*

Congressional Add: *FY 2018 NDAA SEC 825 MDAP Cost Overrun*

	FY 2019	FY 2020
	8.755	-
	8.120	-
	0.045	-
Congressional Add Subtotals for Project: 62D	16.920	-
Congressional Add Totals for all Projects	16.920	-

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army										Date: February 2020		
Appropriation/Budget Activity 2040 / 3					R-1 Program Element (Number/Name) PE 0603607A / Joint Service Small Arms Program				Project (Number/Name) 627 / Jt Svc Sa Prog (JSSAP)			
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
627: Jt Svc Sa Prog (JSSAP)	-	5.708	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	5.708

Note

In Fiscal Year 2020 (FY20) this Project was realigned to:
 Program Element (PE) 0603118A Soldier Lethality Advanced Technology:
 * Project AY5 Soldier Squad Small Arms Armaments Advanced Technology

A. Mission Description and Budget Item Justification

This Project matures and demonstrates advanced technologies that provide greater lethality, target acquisition, fire control, training effectiveness and range at a significantly reduced weight. These technologies lighten the Soldier's load, provide improved battlefield mobility, and reduce logistics burden while maintaining or improving current levels of performance.

Efforts in this Project support the Army Science and Technology Lethality Portfolio.

In FY19 work in this Project is related to, and fully integrated with the efforts funded in PE 0602623A (Joint Service Small Arms Program) and PE 0602624A (Weapons and Munitions Technology). Beginning in FY20, work in this PE is related to, and fully coordinated with PE 0603118A (Soldier Lethality Advanced Technology).

The cited work is consistent with the Under Secretary of Defense for Research and Engineering priority focus areas and the Army Modernization Strategy.

All FY20 adjustments align program financial structure to Army Modernization Priorities in support of the National Defense Strategy.

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

	FY 2019	FY 2020	FY 2021
Title: Volume Effects	1.900	-	-
Description: This effort addresses the maturation and demonstration of emerging small arms technologies from PE 0602623A efforts into current and next generation weapon systems to address Volume (sustained suppressive and lethal fires for area targets) capability gaps for improved effectiveness at extended ranges.			
Title: Precision Effects	1.008	-	-
Description: This effort focuses on the maturation and demonstration of emerging small arms technologies from PE 0602623A efforts into current and next generation weapon systems to address precision fire (Precision fire is support fire in the offense during the assault and engagement of targets to the maximum effective range of the weapon), and fire control capability gaps for improved accuracy at extended ranges.			

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Appropriation/Budget Activity 2040 / 3	R-1 Program Element (Number/Name) PE 0603607A / <i>Joint Service Small Arms Program</i>	Project (Number/Name) 627 / <i>Jt Svc Sa Prog (JSSAP)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021
<p>Title: Small Arms Systems Integration and Demo</p> <p>Description: This effort addresses the maturation and demonstration of small arms component technologies resulting from PE 0602623A efforts and applied into advanced small arms technologies as to inform the user requirement process, address operational capability gaps and transition mature components and technology concepts.</p>	1.450	-	-
<p>Title: Joint Service Small Arms Science and Technology Collaboration</p> <p>Description: This effort addresses the continued operations of the Joint Service Small Arms Program (JSSAP) office to coordinate and harmonize new Services' materiel requirements with potential joint applications, and to maintain awareness of the Services' efforts to improve Small Arms capabilities thus reducing duplication of ongoing and planned technology, acquisition and sustainment activities.</p>	1.350	-	-
Accomplishments/Planned Programs Subtotals	5.708	-	-

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Appropriation/Budget Activity 2040 / 3					R-1 Program Element (Number/Name) PE 0603607A / Joint Service Small Arms Program				Project (Number/Name) 62D / SMALL ARMS ADVANCED TECHNOLOGY DEV (CA)			
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
62D: SMALL ARMS ADVANCED TECHNOLOGY DEV (CA)	-	16.920	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	16.920

A. Mission Description and Budget Item Justification

Congressional Interest FY 2019 Program Increase for Soldier Lethality.

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

	FY 2019	FY 2020
Congressional Add: Next Generation Squad Weapon - Carbine	8.755	-
FY 2019 Accomplishments: Next Generation Squad Weapon - Carbine		
Congressional Add: Next Generation Squad Weapon Ammunition	8.120	-
FY 2019 Accomplishments: Next Generation Squad Weapon Ammunition		
Congressional Add: FY 2018 NDAA SEC 825 MDAP Cost Overrun	0.045	-
FY 2019 Accomplishments: FY 2018 NDAA SEC 825 MDAP Cost Overrun		
Congressional Adds Subtotals	16.920	-

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

N/A

Remarks

D. Acquisition Strategy

N/A