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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2021 Office of the Secretary Of Defense **Date:** February 2020

<b>Appropriation/Budget Activity</b>					<b>R-1 Program Element (Number/Name)</b>							
0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>					PE 0604775D8Z I <i>Defense Rapid Innovation Program</i>							
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	250.000	241.194	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
<i>775: Defense Rapid Innovation Program</i>	250.000	241.194	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

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

The Defense Rapid Innovation Program (RIP) was established in Section 1073 of the FY 2011 National Defense Authorization Act (NDAA) and authorized as a permanent program in the FY 2017 NDAA. Section 224 of the FY 2019 NDAA codified the RIP in the U.S. Code as Title 10, Section 2359a (TAB B). The RIP accelerates the fielding of innovative technologies into military systems via a competitive, merit-based selection process. Technology innovations are drawn from Phase II Small Business Innovative Research (SBIR) projects, defense laboratory and academia efforts, and other innovative technologies, including dual-use and Independent Research & Development (IRAD) technologies. Projects stimulate innovation, mitigate technical risks, reduce acquisition and/or lifecycle costs, improve test outcomes, and rapidly insert technology into major acquisition programs and other programs that meet critical national security needs. RIP provides a mechanism for bridging the "Valley of Death" by funding the integration work vital to transition technologies out of the laboratory and into Programs of Record. Since inception, RIP has evaluated over 20,000 industry submitted white papers by companies from all 50 states and funded over 900 projects across 26 different organizations in the Military Services, Combatant Commands, and other Defense Agencies.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
Previous President's Budget	249.432	0.000	0.000	-	0.000
Current President's Budget	241.194	0.000	0.000	-	0.000
Total Adjustments	-8.238	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-8.194	-			
• Other Adjustments	-0.044	-			

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

**Project:** 775: *Defense Rapid Innovation Program*

Congressional Add: *Defense Rapid Innovation Fund*

FY 2019	FY 2020
241.194	0.000

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2021 Office of the Secretary Of Defense	<b>Date:</b> February 2020
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<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604775D8Z / <i>Defense Rapid Innovation Program</i>
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<u>Congressional Add Details (\$ in Millions, and Includes General Reductions)</u>	<b>FY 2019</b>	<b>FY 2020</b>
Congressional Add Subtotals for Project: 775	241.194	0.000
Congressional Add Totals for all Projects	241.194	0.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Office of the Secretary Of Defense										<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 0400 / 4					<b>R-1 Program Element (Number/Name)</b> PE 0604775D8Z / Defense Rapid Innovation Program				<b>Project (Number/Name)</b> 775 / Defense Rapid Innovation Program			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
<i>775: Defense Rapid Innovation Program</i>	250.000	241.194	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

From FY 2011 thru FY 2019, the RIP has been funded through Congressional Adds.

RIP funds are distributed among the Services (Army, Navy, and Air Force) and the other Defense agencies. RIP is executed via a competitive two-step process for participation in the program. Industry participants are invited to submit a three-page white paper plus a quad chart through an annual Broad Agency Announcement (BAA). Once white papers are reviewed, the highest ranking white papers are invited to submit full detailed proposals for funding consideration. In ranking white papers, preference is given to projects focusing on the Research and Engineering top 10 research priorities, the National Defense Strategy, and small businesses. Full proposals are subject to final review and the highest ranking proposals are selected for contract award. The statute for RIP defines project scope as not to exceed 24 months and \$3.000 million per project.

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

	<b>FY 2019</b>	<b>FY 2020</b>
<b>Congressional Add:</b> Defense Rapid Innovation Fund	241.194	0.000
<b>FY 2019 Accomplishments:</b> In first quarter FY 2019, a department-wide call for technology requirement topics was issued. In second quarter FY 2019, Washington Headquarters Services issued a consolidated FY 2019 RIP BAA containing over 300 technology requirement topics from the Military Services, Combatant Commands, and other Defense Agencies. In second and third quarters FY 2019, 2,212 industry white papers were received and reviewed. Final proposals and project selections are anticipated in fourth quarter FY 2019. Over 100 FY 2019 RIF contract awards are anticipated by second quarter FY 2020.		
<b>FY 2020 Plans:</b> The Department-wide call for FY 2020 technology requirement topics will be issued in fourth quarter FY 2019. The BAA is planned for first quarter FY 2020. Final project selections will be made by fourth quarter FY 2020 and awarded by second quarter FY 2021.		
<b>Congressional Adds Subtotals</b>	241.194	0.000

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

N/A

**Remarks**

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Office of the Secretary Of Defense		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604775D8Z / <i>Defense Rapid Innovation Program</i>	<b>Project (Number/Name)</b> 775 / <i>Defense Rapid Innovation Program</i>

**D. Acquisition Strategy**

Successful RIP projects can transition to acquisition via several ways including, but not limited to:

- 1) technology upgrade insertion into a current platform or program providing greater capability, reduced lifecycle costs, or prolonging the life of the weapon system;
- 2) informing/refining future requirements providing better outcomes for planned systems; or 3) a direct transition/procurement should the item/article provide a new capability.

**E. Performance Metrics**

Each RIP project is evaluated at its conclusion based on two measures: 1) technical performance, or extent the RIP project is meeting its technical goals, with an assessment of cost, schedule, and deliverables against stated objectives; and 2) transition status, or the extent to which an acquisition program or customer has been identified and is participating in procuring the technology, assuming the RIP project is successful.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Office of the Secretary Of Defense** **Date:** February 2020

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604775D8Z / Defense Rapid Innovation Program	<b>Project (Number/Name)</b> 775 / Defense Rapid Innovation Program
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<b>Product Development (\$ in Millions)</b>				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
RIF Project Awards	C/Various	Multiple : Multiple	245.475	237.231		-		-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			245.475	237.231		-		-		-		-	Continuing	Continuing	N/A

<b>Support (\$ in Millions)</b>				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
Intramural Support Costs	MIPR	Army, Navy, and Air Force : Multiple	3.500	3.413		-		-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			3.500	3.413		-		-		-		-	Continuing	Continuing	N/A

<b>Management Services (\$ in Millions)</b>				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
RIF Program Support Services and Portal Costs	C/Various	Multiple : Multiple	1.025	0.550		-		-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			1.025	0.550		-		-		-		-	Continuing	Continuing	N/A

**Remarks**  
Administrative costs for executing RIP, program-wide, are two percent of the total appropriation per fiscal year.

	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	250.000	241.194	0.000	-	-	-	Continuing	Continuing	N/A

**Remarks**  
Administrative costs for executing RIF, program-wide, are two percent of the total appropriation per fiscal year.

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2021 Office of the Secretary Of Defense		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604775D8Z / <i>Defense Rapid Innovation Program</i>	<b>Project (Number/Name)</b> 775 / <i>Defense Rapid Innovation Program</i>

FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
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

<b><i>Defense Rapid Innovation Program - FY 2019 Schedule</i></b>	
Requirements Consolidation	
BAA advertised on FEDBIZOPS	
Review White papers; source selection review boards meet; and obtain final management approval	
Notify submitters and invite full proposals	
Review full proposals	
Review and approve project spend plans and prepare financial documents	
Begin to issue contract awards	
Complete contract awards for FY 2019	

FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
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

<b><i>Defense Rapid Innovation Program - FY 2019 Schedule</i></b>	
Requirements Consolidation	
BAA advertised on FEDBIZOPS	
Review White papers; source selection review boards meet; and obtain final management approval	
Notify submitters and invite full proposals	
Review full proposals	



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2021 Office of the Secretary Of Defense		<b>Date:</b> February 2020
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Defense Rapid Innovation Program - FY 2019 Schedule</i></b>				
Requirements Consolidation	4	2018	4	2019
BAA advertised on FEDBIZOPS	1	2019	3	2019
Review White papers; source selection review boards meet; and obtain final management approval	3	2019	4	2019
Notify submitters and invite full proposals	4	2019	4	2019
Review full proposals	4	2019	1	2020
Review and approve project spend plans and prepare financial documents	1	2020	2	2020
Begin to issue contract awards	1	2020	3	2020
Complete contract awards for FY 2019	3	2020	3	2020