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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Office of the Secretary Of Defense **Date:** February 2019

Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0604775D8Z I Defense Rapid Innovation Program
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COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	-	250.000	249.432	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
775: Defense Rapid Innovation Program	-	250.000	249.432	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 Fund (RIF) Program 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. The RIF Program 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. RIF 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, RIF has evaluated over 18,000 industry submitted white papers and funded over 800 projects with companies from 43 different states across the 30 different organizations in the Military Services, Combatant Commands, and other Defense Agencies.

B. Program Change Summary (\$ in Millions)

	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020 Base</u>	<u>FY 2020 OCO</u>	<u>FY 2020 Total</u>
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	250.000	249.432	0.000	-	0.000
Total Adjustments	250.000	249.432	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	250.000	250.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• FFRDC Reduction	-	-0.568	-	-	-

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

Project: 775: Defense Rapid Innovation Program

Congressional Add: Defense Rapid Innovation Fund

Congressional Add Subtotals for Project: 775

	FY 2018	FY 2019
	250.000	249.432
Congressional Add Subtotals for Project: 775	250.000	249.432

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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604775D8Z / <i>Defense Rapid Innovation Program</i>
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Congressional Add Details (\$ in Millions, and Includes General Reductions)		FY 2018	FY 2019
Congressional Add Totals for all Projects		250.000	249.432

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Office of the Secretary Of Defense **Date:** February 2019

Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604775D8Z / Defense Rapid Innovation Program	Project (Number/Name) 775 / Defense Rapid Innovation Program
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COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
<i>775: Defense Rapid Innovation Program</i>	-	250.000	249.432	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 2018, the RIF Program has been funded through Congressional Adds.

RIF funds are distributed evenly between the Services (Army, Navy, and Air Force) and the other Defense agencies. RIF is executed via a competitive two-step process for participation in the program. Industry is invited to submit three-page white papers plus a quad chart through an annual Broad Agency Announcement. Once white papers have been reviewed, the highest ranking white papers are invited to submit full detailed proposals for funding consideration. In ranking white papers, preference will be 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 RIF defines project scope as not to exceed 24 months and \$3.000 million per project.

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

	FY 2018	FY 2019
Congressional Add: Defense Rapid Innovation Fund	250.000	249.432
FY 2018 Accomplishments: In first quarter FY 2018, a department-wide call for technology requirement topics was issued. In second quarter FY 2018, Washington Headquarters Services issued a consolidated FY 2018 RIF Broad Agency Announcement (BAA) containing over 280 technology requirement topics from the Military Services, Combatant Commands, and other Defense Agencies. In third and fourth quarters FY 2018, over 1,800 industry white papers were received and reviewed. Approximately 120 FY 2018 RIF contract awards are anticipated by end of third quarter FY 2019.		
FY 2019 Plans: The Department-wide call for technology requirement topics will be issued in first quarter FY 2019. The BAA is planned for second quarter FY 2019. Final project selections will be made by third quarter FY 2019 and awarded by December 2019.		
Congressional Adds Subtotals	250.000	249.432

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

N/A

Remarks

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D. Acquisition Strategy

Successful RIF projects can transition to acquisition via several ways including, but not limited to: technology upgrade insertion into a current platform or program providing greater capability or prolonging the life of the weapon system; informing/refining future requirements providing better outcomes for planned systems; or a direct transition/procurement should the item/article provide a new capability.

E. Performance Metrics

Each RIF project is evaluated at its conclusion based on two measures: 1) technical performance, or extent the RIF 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 RIF project is successful.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Office of the Secretary Of Defense **Date:** February 2019

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Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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		245.469		-		-		-	Continuing	Continuing	-
Subtotal			-	245.475		245.469		-		-		-	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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	-
Subtotal			-	3.500		3.413		-		-		-	Continuing	Continuing	N/A

Management Services (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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	-
Subtotal			-	1.025		0.550		-		-		-	Continuing	Continuing	N/A

	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals		-	250.000	249.432	-	-	-	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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Exhibit R-4, RDT&E Schedule Profile: PB 2020 Office of the Secretary Of Defense		Date: February 2019
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FY 2018 Schedule

November – December 2018	<ul style="list-style-type: none"> • Review vendor full proposals
January – February 2019	<ul style="list-style-type: none"> • Review and approve project spend plans • Prepare financial documents
June 2019	<ul style="list-style-type: none"> • Complete contract awards for FY 2018 (goal)
July – September 2019	<ul style="list-style-type: none"> • Process reallocation awards

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FY 2019 Schedule	
November 2018	<ul style="list-style-type: none"> • Requirements consolidation
December 2018 – February 2019	<ul style="list-style-type: none"> • BAA advertised on FEDBIZOPPS
February – April 2019	<ul style="list-style-type: none"> • Review white papers • Source Selection Review Boards meet
30 April 2019	<ul style="list-style-type: none"> • Notify submitters • Invite full proposals
May – June 2019	<ul style="list-style-type: none"> • Review and approve project spend plans • Prepare financial documents
October 2019	<ul style="list-style-type: none"> • Begin to issue contract awards
December 2019	<ul style="list-style-type: none"> • Complete contract awards for FY 2019 (goal)