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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Navy										Date: March 2019		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604657M / (U)MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYST							
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	0.000	0.000	0.000	22.000	-	22.000	20.000	5.000	0.000	0.000	0.000	47.000
7400: Combat Capability Development Transition	0.000	0.000	0.000	22.000	-	22.000	20.000	5.000	0.000	0.000	0.000	47.000

A. Mission Description and Budget Item Justification

Organic Precision Fires (OPF) - OPF is a tiered scalable weapon system that will provide Marines the ability to accurately attack and destroy targets throughout the battle space. OPF will provide a man portable and multiple vehicular mounted systems supporting multiple echelons within the MAGTF. OPF will provide an organic fires capability that will increase lethality of the MAGTF, reduce collateral damage, and provide an affordable precision strike fire support system. The OPF will transition from the RCO to PM Fires as an evolutionary acquisition program to incrementally develop and deliver a vendor provided munition capable of destroying multiple target sets

B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	22.000	-	22.000
Total Adjustments	0.000	0.000	22.000	-	22.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	0.000	0.000	22.000	-	22.000

Change Summary Explanation

Increase of \$22.0M from FY19 to FY20 supports the initiation of developmental testing as well as the development of additional capabilities beyond the efforts conducted prior to OPF's transition from BA04/PE 0604320M/Project 9999.

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy										Date: March 2019		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604657M / (U)MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYST				Project (Number/Name) 7400 / Combat Capability Development Transition			
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
7400: Combat Capability Development Transition	0.000	0.000	0.000	22.000	-	22.000	20.000	5.000	0.000	0.000	0.000	47.000
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

OPF transitions from the BA04/PE 0604320M/Project 9999 to BA05/PE 0604657M/Project 7400 (Combat Capability Development Transition) in order to align the efforts initiated in FY20 to the appropriate budget activity. This was the result of a Congressional Add in FY 2018 for Rapid Technology Capability Prototypes - not reflected in the previous budget exhibit due to the timing of the submission.

A. Mission Description and Budget Item Justification

Organic Precision Fires (OPF) - OPF is a tiered scalable weapon system that will provide Marines the ability to accurately attack and destroy targets throughout the battle space. OPF will provide a man portable and multiple vehicular mounted systems supporting multiple echelons within the MAGTF. OPF will provide an organic fires capability that will increase lethality of the MAGTF, reduce collateral damage, and provide an affordable precision strike fire support system.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Title: Organic Precision Fires (OPF)	0.000	0.000	22.000	0.000	22.000
Articles:	-	-	-	-	-
FY 2019 Plans: N/A					
FY 2020 Base Plans: - Initiate development of an interchangeable platform capable of supporting multiple MAGTF prime movers. - Initiate integration of the OPF capability into existing video downlink, Command and Control, and fire support systems. - Initiate multi-user, multi-munition, and swarming capabilities. - Initiate developmental testing and begin safety and cybersecurity certifications.					
FY 2020 OCO Plans: N/A					
FY 2019 to FY 2020 Increase/Decrease Statement:					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Increase of \$22.0M from FY19 to FY20 is to support the initial Development of the OPF. Funding for the OPF has been provided to develop a vehicular mounted precision organic indirect fires system to mitigate a capability gap that cannot be addressed by current fire support systems. OPF will provide the ability for Marines at different echelons to quickly and accurately attack targets at varying ranges in response to mission requirements.					
Accomplishments/Planned Programs Subtotals	0.000	0.000	22.000	0.000	22.000

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

Line Item	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
• PMC/4733: FIRE SUPPORT SYSTEM	0.000	0.000	0.000	-	0.000	0.000	20.000	27.000	27.000	Continuing	Continuing

Remarks

D. Acquisition Strategy

The OPF will be an evolutionary acquisition program to incrementally develop and deliver a vendor provided munition capable of destroying multiple target sets. OPF will be integrated with a government developed and owned mounting platform and command and control system. This strategy will allow the program office to procure munitions from multiple vendors resulting in reduced costs. This strategy will also allow the program office to focus future efforts on development of munitions that are vehicle and C2 agnostic.

E. Performance Metrics

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Navy													Date: March 2019		
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Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
OPF Development	C/FFP	TBD : TBD	0.000	0.000		0.000		18.128	Feb 2020	-		18.128	0.000	18.128	-
Subtotal			0.000	0.000		0.000		18.128		-		18.128	0.000	18.128	N/A

Remarks Develop the OPF capability to support the MGTAf															
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Support (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
OPF Engineering Support	MIPR	PM AMRDEC : Huntsville, AL	0.000	0.000		0.000		1.957	Nov 2019	-		1.957	0.000	1.957	-
Subtotal			0.000	0.000		0.000		1.957		-		1.957	0.000	1.957	N/A

Remarks Engineering, Information Assurance and Safety Support															
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Test and Evaluation (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
OPF Developmental Test	MIPR	PM AMRDEC : Huntsville, AL	0.000	0.000		0.000		1.915	Nov 2019	-		1.915	0.000	1.915	-
Subtotal			0.000	0.000		0.000		1.915		-		1.915	0.000	1.915	N/A

Remarks Conduct developmental testing of OPF															
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PE 0604657M: (U)MARINE CORPS GROUND COMBAT/
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		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			0.000	0.000		0.000		22.000		-		22.000	0.000	22.000	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2020 Navy												Date: March 2019					
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Proj 7400	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
									OPF Development																			
									Integration with Prime Mover																			
									Warhead Development																			
									Swarm Integration and Testing																			

2020OSD - 0604657M - 7400

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Navy			Date: March 2019
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 7400				
OPF Development	1	2020	4	2021
Integration with Prime Mover	1	2020	4	2020
Warhead Development	1	2020	3	2020
Swarm Integration and Testing	2	2020	3	2021