Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy

Date: February 2018

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

1319: Research, Development, Test & Evaluation, Navy I BA 4: Advanced

PE 0603795N I Land Attack Tech

Component Development & Prototypes (ACD&P)

COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	15.471	17.260	35.668	15.529	1.400	16.929	0.000	0.000	0.000	0.000	0.000	85.328
2020: Advanced Gun System Projectile	0.000	0.000	18.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	18.000
2038: ADVANCED MINOR CALIBER GUN	15.471	1.073	2.100	0.000	1.400	1.400	0.000	0.000	0.000	0.000	0.000	20.044
3370: Railgun	0.000	4.581	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	4.581
3401: Guided Projectile	0.000	0.000	15.568	15.529	-	15.529	0.000	0.000	0.000	0.000	0.000	31.097
9999: Congressional Adds	0.000	11.606	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	11.606

A. Mission Description and Budget Item Justification

Project 2020: The Advanced Gun System (AGS) projectile will provide Naval Surface Fires support for DDG 1000 class destroyers from the MK-51 Gun Weapon System (GWS). The AGS projectile will replace the Long Range Land Attack Projectile which was the original 155mm munitions developed for the MK-51 GWS. The development effort focuses on integration of a 155mm guided projectile in the MK-51 GWS which includes modifications to address initialization, dimensional, gun launch, and automated handling interface differences. Components affected by the integration of a 155mm guided projectile include the guided projectile, the propelling charge, the MK-51 Gun Weapon System, and the Total Ship Computing Environment. The program was funded under PE 0204202N DDG 1000 in FY 2017. The capability is planned for Initial Operational Capability in 4QFY2021. This is not a new start.

Project 2038: The Advanced Minor Caliber Gun supported non-recurring engineering, component integration, and testing efforts required for capability upgrades to the MK38 Mod 2, a minor caliber gun weapon system.

Project 2038 OCO: In order to respond to the Joint Urgent Operational Need (JUONs CC-0558) Counter Unmanned Aerial Systems (CUAS), the MK 38 MOD 2 Machine Gun System will be upgraded to counter these threats. Fielding is expected to start 1st quarter FY20.

Projects 3370 & 3401: The Gun Launched Guided Projectile effort will double the range of the current 5-inch conventional ammunition while meeting multi-mission operational requirements for Anti-Surface Warfare (ASuW), Anti-Air Warfare (AAW), and Naval Surface Fire Support (NSFS) missions. This project executes pre milestone (MS) B activities and begins preparations for the Engineering, Manufacturing, and Development Phase planned for FY 2020. This includes development of system specifications and interface control documents to support MS B. Maturation of subcomponents and integration risk reduction efforts will be initiated to support MS B Acquisition Milestone and Competitive E&MD Award. The Gun Launched Guided Projectile project was previously funded under the PE 0603925N / Directed Energy and Electronic Weapon Systems (Proj: 3370 Railgun) and 0603795N / Land Attack Tech (Proj: 3370 Railgun). This is not a new start.

Proj 9999: The objective is to demonstrate a 5-inch guided projectile capable of conducting Naval Surface Fire Support missions to a range of not less than 26 nautical miles (nmi). Priority consideration will be given to mature designs capable of achieving qualification for fleet introduction in the near term.

PE 0603795N: Land Attack Tech

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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy

Date: February 2018

Appropriation/Budget Activity

1319: Research, Development, Test & Evaluation, Navy I BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 Program Element (Number/Name)

PE 0603795N I Land Attack Tech

B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	6.015	33.568	43.713	-	43.713
Current President's Budget	17.260	35.668	15.529	1.400	16.929
Total Adjustments	11.245	2.100	-28.184	1.400	-26.784
 Congressional General Reductions 	-	-			
Congressional Directed Reductions	-	-			
 Congressional Rescissions 	-	-			
Congressional Adds	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-0.300	0.000			
SBIR/STTR Transfer	-0.455	0.000			
Program Adjustments	0.000	2.100	-27.713	-	-27.713
 Rate/Misc Adjustments 	0.000	0.000	-0.471	1.400	0.929
 Congressional Add Adjustments 	12.000	-	-	-	-

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

Project: 9999: Congressional Adds

Congressional Add: Fly Off Competition

	FY 2017	FY 2018
	11.606	0.000
Congressional Add Subtotals for Project: 9999	11.606	0.000
Congressional Add Totals for all Projects	11.606	0.000

Change Summary Explanation

Increase of +\$11.606M supports 5-inch guided projectile demonstration.

Decrease of -.800M due to BTR from project 3370 Railgun in FY17.

Decrease of -.191M due to Efficiency reduction from project 3401 Guided Projectile in FY19.

Decrease of -\$165.206M removed from project 3401 Guided Projectile through fiscal years 19-22.

Increase of \$4.0M FY17(\$0.5M baseline), FY18 (\$2.1M OCO) & FY19 (\$1.4M OCO) for project 2038 Urgent Operational Need for defense against Unmanned Aerial Systems (UAS).

PE 0603795N: Land Attack Tech

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Exhibit R-2A, RDT&E Project J	xhibit R-2A, RDT&E Project Justification: PB 2019 Navy											
Appropriation/Budget Activity 1319 / 4		, , ,					umber/Name) ranced Gun System Projectile					
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023 Complet		Total Cost
2020: Advanced Gun System Projectile	0.000	0.000	18.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	18.000
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Advanced Gun System (AGS) projectile will provide affordable Naval Surface Fires Support for DDG 1000 class destroyers from the MK 51 Gun Weapon System (commonly referred to as AGS). Initiation of a demonstration and development planning for an affordable round was directed by Assistant Secretary of the Navy, Research, Development, and Acquisition to address the unaffordability of the Long Range Land Attack Projectile. The effort focuses on integration of an affordable 155mm guided projectile in the MK 51 GWS and includes modifications to address initialization, dimensional, gun launch, and automated handling interface differences. Components affected by the integration of an affordable 155mm guided projectile include the guided projectile, the propelling charge, the MK 51 Gun Weapon System, and the Total Ship Computing Environment. The program is funded under PE 0204202N DDG 1000 in FY 2017. Initial Operational Capability is planned for 4QFY2021.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)				FY 2019	FY 2019	FY 2019
		FY 2017	FY 2018	Base	oco	Total
Title: Systems Engineering and Design Verification		0.000	18.000	0.000	0.000	0.000
A	rticles:	-	-	-	-	-
FY 2018 Plans:						
Baseline Interface Control Documents						
Baseline system specification for a 155mm guided projectile						
Initiate modifications to the guided projectile to support interface requirements						
Begin design on MK-51 Gun Weapon System modifications						
Begin design verification testing on MK-51 Gun Weapon System modifications						
Begin design verification testing for an alternate propelling charge system						
Complete alternate logical and electrical Critical Design Review for initialization conversion						
Complete a technology transfer to industry for the electrical and logical interface conversion						
Initiate development on system integration modifications						
FY 2019 Base Plans:						
N/A						
FY 2019 OCO Plans:						
N/A						
FY 2018 to FY 2019 Increase/Decrease Statement:						
					1	

PE 0603795N: Land Attack Tech

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		1	Date: February 2018
PP	R-1 Program Element (Number/Name)	, ,	ımber/Name)
1319 / 4	PE 0603795N / Land Attack Tech	2020 <i>I Adva</i>	anced Gun System Projectile

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Decrease due to Advanced Gun System not being funded past FY 2018.					
Accomplishments/Planned Programs Subtotals	0.000	18.000	0.000	0.000	0.000

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

N/A

Remarks

D. Acquisition Strategy

Projectile decision based on capability, cost, technology maturity, and ability to support DDG-1000 Initial Operational Capability schedule.

E. Performance Metrics

Development cost, unit cost, Initial Operational Capability schedule.

PE 0603795N: Land Attack Tech

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy

Appropriation/Budget Activity

1319 / 4

R-1 Program Element (Number/Name)
PE 0603795N / Land Attack Tech
PE 0603795N / Land Attack Tech
PE 0603795N / Land Attack Tech
PC 0603795N / Land Attack Tech

Product Developmer	oduct Development (\$ in Millions)			FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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
Guided Projectile Modification Development	C/CPFF	TBD : Not Specified	0.000	0.000		3.200	Dec 2017	0.000		-		0.000	39.502	42.702	-
Propelling Charge Development	C/CPFF	BAE Systems : Fridley, MN	0.000	0.000		2.655	Dec 2017	0.000		-		0.000	9.148	11.803	-
Munitions Container Development	C/CPFF	BAE Systems : Fridley, MN	0.000	0.000		2.100	Dec 2017	0.000		-		0.000	3.540	5.640	-
Munition Container Modification Development, Electrical	WR	NSWC Dahlgren : Dahlgren, VA	0.000	0.000		0.365	Oct 2017	0.000		-		0.000	0.200	0.565	-
Munitions Container and Propelling Charge Technical Data Package Modification	WR	NSWC IHEODTD : Picatinny, NJ	0.000	0.000		0.241	Oct 2017	0.000		-		0.000	0.246	0.487	-
Munitions Container and Propelling Charge Technical Data Package Modification	WR	NSWC CN : Corona, CA	0.000	0.000		0.075	Oct 2017	0.000		-		0.000	0.080	0.155	-
MK 51 Munition Container Modification Development, Software	MIPR	ARDEC : Picatinny, NJ	0.000	0.000		0.250	Oct 2017	0.000		-		0.000	0.100	0.350	-
MK 51 GWS Modification Development	C/CPFF	BAE Systems : Fridley, MN	0.000	0.000		5.068	Dec 2017	0.000		-		0.000	19.932	25.000	-
Total Ship Computing Environment Modification Development	C/CPFF	Raytheon IDS : Tewksbury, MA	0.000	0.000		0.000		0.000		-		0.000	15.000	15.000	-
		Subtotal	0.000	0.000		13.954		0.000		-		0.000	87.748	101.702	N/A

Support (\$ in Millions	s)			FY 2	2017	FY 2	2018	FY 2 Ba		FY 2		FY 2019 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
Government Services Engineering	WR	NSWC Dahlgren : Dahlgren, VA	0.000	0.000		0.780	Oct 2017	0.000		-		0.000	1.251	2.031	-

PE 0603795N: Land Attack Tech Navy **UNCLASSIFIED**

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy Date: February 2018

Appropriation/Budget Activity R-1 Program Element (Number/Name) Project (Number/Name)

1319*/* 4 PE 0603795N / Land Attack Tech 2020 I Advanced Gun System Projectile

Support (\$ in Millions)			FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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
Government Services Engineering	WR	NSWC IHEOTD : Indian Head MD	0.000	0.000		0.790	Oct 2017	0.000		-		0.000	1.128	1.918	-
Government Services Engineering	WR	NSWC IHEOTD : Picatinny, NJ	0.000	0.000		0.626	Oct 2017	0.000		-		0.000	1.144	1.770	-
Government Services Engineering	WR	NAWC,CL : China Lake, CA	0.000	0.000		0.100	Oct 2017	0.000		-		0.000	0.181	0.281	-
		Subtotal	0.000	0.000		2.296		0.000		-		0.000	3.704	6.000	N/A

Test and Evaluation	est and Evaluation (\$ in Millions)			FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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	Total Cost	Target Value of Contract
Test Analysis and Articles	MIPR	USAASC : Picatinny, NJ	0.000	0.000		0.500	Oct 2017	0.000		-		0.000	4.704	5.204	-
Test Range	MIPR	Dugway Proving Grounds : Dugway, UT	0.000	0.000		0.450	Oct 2017	0.000		-		0.000	0.900	1.350	-
Test Range	MIPR	Yuma Proving Grounds : Yuma, AZ	0.000	0.000		0.180	Oct 2017	0.000		-		0.000	0.300	0.480	-
Test Range	WR	Dahlgren Range : Dahlgren, VA	0.000	0.000		0.320	Oct 2017	0.000		-		0.000	1.269	1.589	-
Test Range	WR	White Sands Missile Range : White Sands, NM	0.000	0.000		0.000		0.000		-		0.000	0.900	0.900	-
Test Range	WR	NSWC IHEODTD : Picatinny, NJ	0.000	0.000		0.000		0.000		-		0.000	0.575	0.575	-
		Subtotal	0.000	0.000		1.450		0.000		-		0.000	8.648	10.098	N/A

PE 0603795N: Land Attack Tech

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 N	lavy				Date:	February 2018
Appropriation/Budget Activity 1319 / 4			lement (Number/N Land Attack Tech	, ,	ect (Number I Advanced	/ Name) Gun System Projectile
Management Services (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	
Contract						Target

Award

Date

Cost

Award

Date

Cost

Award

Date

		Project Cost Totals	0.000	0.000	18.00	0	0.000		_		0.000	101.000	119.000	N/A
			Prior Years	FY 2	2017 F	′ 2018		2019 ise		2019 CO	FY 2019 Total	Cost To	Total Cost	Target Value of Contract
		Subtotal	0.000	0.000	0.30	0	0.000		-		0.000	0.900	1.200	N/A
Contract Support Services	C/CPFF	CACI : Arlington, VA	0.000	0.000	0.30	0 Oct 2017	0.000		-		0.000	0.900	1.200	-

Cost

Remarks

Cost Category Item

Method

& Type

Performing

Activity & Location

Prior

Years

Cost

PE 0603795N: Land Attack Tech Navy

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Cost To

Complete

Cost

Award

Date

Value of

Contract

Total

Cost

Exhibit R-4, RDT&E Schedule Profile: PB 2019 N	lavy	,																				Dat	e: F	ebr	uar	y 20	18	
Appropriation/Budget Activity 319 / 4											_			•	umbe k Tec		me)			oject 20 / 2						stem	Proje	ectil
	FY 2017 FY 2018 FY 2019 FY 2020 FY 2021										<u> </u>	FY 2022 F					FY	FY 2023										
	1	2	2 ;	3	4	1	2	3	4	1	2	3	4	1 2	2 3	4	1	2	3	4	1	2	3	4	1	1 2	2 3	4
Proj 2020				,	,			,	,	·				,							,	,				·		
Guided Projectile Modification Development																												
Propelling Charge Development																												
Munitions Container Modification Development					J																							
MK 51 GWS Development																												
Propelling Charge Qual, DT/FOTE hardware award																												

PE 0603795N: Land Attack Tech Navy

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
1319 / 4	PE 0603795N I Land Attack Tech	2020 I Adv	ranced Gun System Projectile

Schedule Details

	St	art	E	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Proj 2020				
Guided Projectile Modification Development	1	2018	4	2018
Propelling Charge Development	1	2018	4	2018
Munitions Container Modification Development	1	2018	4	2018
MK 51 GWS Development	1	2018	4	2018
Propelling Charge Qual, DT/FOTE hardware award	2	2018	4	2018

PE 0603795N: Land Attack Tech

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2019 N	lavy							Date: Febr	uary 2018		
Appropriation/Budget Activity 1319 / 4					R-1 Progra PE 060379		t (Number / Attack Tech	, ,	Number/Name) DVANCED MINOR CALIBER GUN				
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost	
2038: ADVANCED MINOR CALIBER GUN	15.471	1.073	2.100	0.000	1.400	1.400	0.000	0.000	0.000	0.000	0.000	20.044	
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-			

A. Mission Description and Budget Item Justification

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

The Advanced Minor Caliber Gun project supported non-recurring engineering, component integration, testing and qualification efforts required for the capability upgrades to the MK 38 MOD 2, a minor caliber gun weapon system. The new configuration (MOD 3) creates a near term improvement to address ship based, close range solutions to defeat the Fast Attack Craft (FAC)/Fast In-Shore Attack Craft (FIAC) threat. The MK 38 MOD 2 was developed in FY 2004 to outfit near term deployers to counter small boat threats.

OCO: In order to respond to the Joint Urgent Operational Need (CC-0558) for Counter Unmanned Aerial Systems (CUAS), the MK 38 MOD 2 Machine Gun System will be upgraded to counter these threats. Both FY2018 and FY2019 funding in OCO supports the modifications for this requirement. Fielding is expected to start 1st quarter FY20.

D. Accomplishments/i famed i Tograms (# in millions, Article Quantities in Euch)			1 1 2013	1 1 2013	1 1 2013
	FY 2017	FY 2018	Base	oco	Total
Title: Systems Engineering and Testing	1.073	2.100	0.000	1.400	1.400
Articles:	-	-	-	-	-
FY 2018 Plans:					
Begin development of system requirements and specifications.					
Begin development and incremental testing of Counter-Unmanned Aerial System (C-UAS) software upgrade.					
Procure Engineering Prototype Hardware					
Develop Introductory Safety Review Board package for Weapon System Explosives Safety Review Board					
Concurrence.					
FY 2019 Base Plans:					
N/A					
FY 2019 OCO Plans:					
- Delivery of final Counter-UAS capability software release					
- Complete land-based and at-sea qualification testing					
- Obtain WSESRB concurrence for deployment					
- Obtain element certification of new MK 38 HW/W baseline					
	1		ı	1	

PE 0603795N: Land Attack Tech

FY 2019 | FY 2019 | FY 2019

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
1319 / 4	PE 0603795N / Land Attack Tech	2038 I AD	VANCED MINOR CALIBER GUN

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
- Field engineering design model for Initial Operational Capability					
FY 2018 to FY 2019 Increase/Decrease Statement: Decrease from FY 2018 to FY2019 due to nearing completion of efforts supporting Joint Urgent Operational Need (CC-0558) for Counter Unmanned Aerial Systems (CUAS).					
Accomplishments/Planned Programs Subtotals	1.073	2.100	0.000	1.400	1.400

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

N/A

Remarks

D. Acquisition Strategy

Hardware improvement based on engineering changes was integrated into FY 2017 and follow-on production orders.

E. Performance Metrics

Quarterly program reviews and semi-annual product certification panel reviews.

PE 0603795N: Land Attack Tech

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy

Appropriation/Budget Activity R-1 Program Element (Number/Name) Project (Number/Name)

1319 I 4 PE 0603795N I Land Attack Tech 2038 I ADVANCED MINOR CALIBER GUN

Product Developmer	nt (\$ in M	illions)		FY 2	2017	FY 2	2018	FY 2 Ba		FY 2	2019 CO	FY 2019 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
Primary Product Integration	SS/BOA	BAE Systems : Minneapolis MN	12.062	0.663	Apr 2017	1.500	Mar 2018	0.000		0.500	Nov 2018	0.500	0.000	14.725	-
		Subtotal	12.062	0.663		1.500		0.000		0.500		0.500	0.000	14.725	N/A

Remarks

ECPs spiral development - Electro Optical Site (EOS) capabilities

Support (\$ in Million	s)			FY 2	2017	FY 2	2018	FY 2 Ba	2019 ise	FY 2	2019 CO	FY 2019 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
Government Engineering Services	WR	NSWC, DD : Dahlgren, VA	2.406	0.343	Jan 2017	0.200	Mar 2018	0.000		0.500	Nov 2018	0.500	0.000	3.449	-
Government Engineering Services	WR	NSWC, IHD : Picatinny, NJ	0.638	0.002	Oct 2017	0.200	Mar 2018	0.000		0.200	Nov 2018	0.200	0.000	1.040	-
Government Engineering Seervices	WR	NSWC, CR : Crane, IN	0.000	0.065	Oct 2017	0.200	Mar 2018	0.000		0.200	Nov 2018	0.200	0.000	0.465	-
		Subtotal	3.044	0.410		0.600		0.000		0.900		0.900	0.000	4.954	N/A

Remarks

Navy

Configuration Management (CM) work engineering tech manuals updates.

Management Service	s (\$ in M	illions)		FY 2	017	FY 2	018	FY 2 Ba		FY 2	2019 CO	FY 2019 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
Program Support Services	C/CPFF	ALION : Washington, DC	0.365	0.000		0.000		0.000		-		0.000	0.000	0.365	-
		Subtotal	0.365	0.000		0.000		0.000		-		0.000	0.000	0.365	N/A

PE 0603795N: Land Attack Tech

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Exhibit R-3, RDT&E Project Cost Analysis: PB	2019 Navy	/				D	ate: Februa	y 2018	
Appropriation/Budget Activity 1319 / 4			_	lement (Number/l Land Attack Tech	•	Project (Nur 2038 / ADVA	•		ER GUN
	Prior Years	FY 201	FY 2018	FY 2019 Base	FY 2				Target Value of Contract
Project Cost Totals	15.471	1.073	2.100	0.000	1.400	1	.400 0.00	20.044	N/A

Remarks

PE 0603795N: Land Attack Tech Navy

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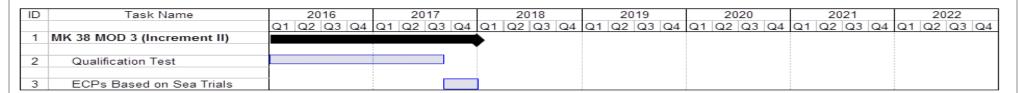
Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy

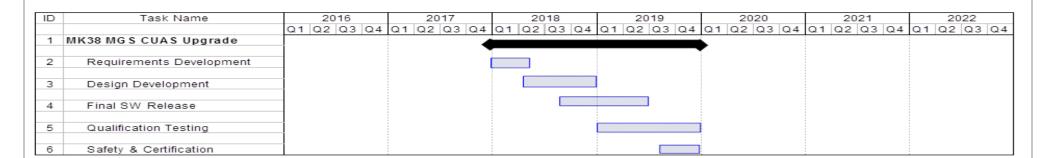
Date: February 2018

Appropriation/Budget Activity R-1 Program Element (Number/Name) Project (Number/Name)

1319 / 4 PE 0603795N / Land Attack Tech 2038 / ADVANCED MINOR CALIBER GUN

2038 / Advance Minor Caliber Gun Program Schedule





1

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
1319 / 4	PE 0603795N I Land Attack Tech	2038 I AD	VANCED MINOR CALIBER GUN

Schedule Details

	S	End			
Events by Sub Project	Quarter	Year	Quarter	Year	
Proj 2038					
Increment II Qualification Test	1	2017	3	2017	
Engineering Changes based on Sea Trials	3	2017	4	2017	
Requirements and Design Development	1	2018	4	2018	
Final SW Release Counter (UAS)	3	2018	2	2019	
Qualification Testing	1	2019	4	2019	
Safety and Element Certification	3	2019	3	2019	

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2019 N	lavy							Date: Feb	ruary 2018		
Appropriation/Budget Activity 1319 / 4	tion/Budget Activity						t (Number / Attack Tech	•	Project (Number/Name) 3370 / Railgun				
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost	
3370: Railgun	0.000	4.581	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	4.581	
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-			

A. Mission Description and Budget Item Justification

The Hyper Velocity Projectile Block (BLK) 0 will double the range of the current 5-inch conventional ammunition to support multi-mission operational requirements for Anti-Surface Warfare (ASuW), Anti-Air Warfare (AAW), and Naval Surface Fire Support (NSFS) missions. This project executes pre Milestone B (MS B) activities and begins preparations for the Engineering, Manufacturing, and Development Phase planned for FY 2019. This includes development of the system specification and interfaces, and support Hyper Velocity Projectile risk reduction efforts required to transition to Milestone B (MS B). The Hyper Velocity Projectile project was previously funded under the PE 0603925N / Directed Energy and Electronic Weapon Systems.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2019	FY 2019	FY 2019
	FY 2017	FY 2018	Base	oco	Total
Title: Systems Engineering and Testing	4.581	0.000	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2018 Plans: FY 2018 plans is funded under project 3401: Guided Projectile.					
FY 2019 Base Plans: N/A					
FY 2019 OCO Plans: N/A					
FY 2018 to FY 2019 Increase/Decrease Statement: No change from FY 2018 to FY 2019.					
Accomplishments/Planned Programs Subtotals	4.581	0.000	0.000	0.000	0.000

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

N/A

Remarks

D. Acquisition Strategy

Leveraging the ONR sponsored Future Naval Capabilities project, SCO activities, and Gov't developed Interface Control Drawings and specifications to establish a competitive solicitation for E&MD Phase in FY 2020.

PE 0603795N: Land Attack Tech

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Navy

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603795N / Land Attack Tech	Project (Nu 3370 / Railg	mber/Name) un
E. Performance Metrics			
Quarterly Program Reviews, Monthly Reports, and Periodic Design Reviews.			

PE 0603795N: Land Attack Tech Navy

					UN	ICLASS	SIFIED													
Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	.019 Navy	,								Date:	February	2018						
Appropriation/Budge 1319 / 4	t Activity	1						ement (N and Attac		ame)	Project 3370 / F	(Numbe i Railgun	r/Name)	Name)						
Support (\$ in Millions	s)			FY 2	2017	FY 2	018	FY 2 Ba			2019 CO	FY 2019 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					
Government Enginerring Services	WR	NSWC, DD : Dahlgren, VA	0.000	3.671	Jan 2017	0.000		0.000		-		0.000	0.000	3.671	-					
Government Enginerring Services	WR	NSWC, Indian Head : Indian Head, MD	0.000	0.250	Oct 2016	0.000		0.000		-		0.000	0.000	0.250	-					
Government Engineering Services	WR	NSWC IHD Picatinny Detachment : Picatinny Arsenal, NJ	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-					
Government Engineering Services	MIPR	COTF/MCOTEA: Norfolk, VA	0.000	0.039	Dec 2016	0.000		0.000		-		0.000	0.000	0.039	-					
HVP Tactical Development Risk Reduction Studies/ Analysis	C/CPFF	DOTC Competively Selected Vendor: TBD : L3	0.000	0.116	Jan 2017	0.000		0.000		-		0.000	0.000	0.116	-					
Program Support Services	C/CPFF	MITRE : McLean, VA	0.000	0.350	Jul 2017	0.000		0.000		-		0.000	0.000	0.350	-					
		Subtotal	0.000	4.426		0.000		0.000		-		0.000	0.000	4.426	N/A					
Test and Evaluation	(\$ in Milli	ons)		FY 2	2017	FY 2	2018	FY 2 Ba			2019 CO	FY 2019 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					
Hypervelocity Projectile	WR	NSWC PHD : Pt. Hueneme, CA	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-					
		Subtotal	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	N/A					
Management Service	es (\$ in M	illions)		FY 2	2017	FY 2	018	FY 2 Ba			2019 CO	FY 2019 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					
WNY Front Office Corp Ops	C/CPFF	NAVSEA : WNY	0.000	0.141	Jul 2017	0.000		0.000		-		0.000	0.000	0.141	-					
Cancelled Accounts	C/CPFF	NAVSEA : WNY	0.000	0.014	Jul 2017	0.000		0.000		-		0.000	0.000	0.014	-					
		Subtotal	0.000	0.155		0.000		0.000		-		0.000	0.000	0.155	N/A					

PE 0603795N: Land Attack Tech

Navy

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2	2019 Navy	1				Date	e: February	2018	
Appropriation/Budget Activity 1319 / 4			_	am Element (N 5N / Land Attac	•	Project (Numb 3370 / Railgun	er/Name)		
	Prior Years	FY 2017	FY 2018	FY 2 Ba		7 2019 FY 2019 DCO Total	Cost To	Total Cost	Target Value of Contract
Project Cost Totals	0.000	4.581	0.000	0.000	-	0.00	0.000	4.581	N/A

Remarks

PE 0603795N: Land Attack Tech Navy UNCLASSIFIED

xhibit R-4, RDT&E Schedule Profile: PB 2019 N	lavy																					D	ate:	Fe	brua	ary	2018		
ppropriation/Budget Activity 319 / 4				` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `							Project (Number/Name) 3370 / Railgun																		
		FY 2	2017	7		FY	′ 201	18		FY	2019	9		FY	2020)		FY	202	21		F	Y 20	022			FY 2	023	
	1	2	3	4	1	2	2 3	4	1	2	3	4	1	2	3	4	1	2	3	3 4		1	2	3	4	1	2	3	4
Proj 3370																													
Technical Studies/Risk Reduction effort																													
System Engineering Plan (SEP) Development																													
MS B Documentation																													
System Spec and Interface Requirement																													_

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity 1319 / 4	, ,	Project (N 3370 / Rail	umber/Name)
131974	PE 0003793NT Land Allack Tech	33101 Kali	guri

Schedule Details

	St	art	E	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Proj 3370				
Technical Studies/Risk Reduction effort	1	2017	4	2017
System Engineering Plan (SEP) Development	1	2017	4	2017
MS B Documentation	1	2017	1	2017
System Spec and Interface Requirement	1	2017	4	2017

PE 0603795N: Land Attack Tech Navy

Exhibit R-2A, RDT&E Project Ju	ustification:	PB 2019 N	lavy							Date: Febr	ruary 2018				
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Nam PE 0603795N / Land Attack Tech) Project (Number/Name) 3401 / Guided Projectile					
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost			
3401: Guided Projectile	0.000	0.000	15.568	15.529	-	15.529	0.000	0.000	0.000	0.000	0.000	31.097			
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-					

Note

Decrease of \$263K a result of OSD Budgetary PBD/RMD Adjustments and DON Leadership Decisions results in decrease in DOTC funded amount.

A. Mission Description and Budget Item Justification

The Gun Launched Guided Projectile effort will double the range of the current 5-inch conventional ammunition while meeting multi-mission operational requirements for Anti-Surface Warfare (ASuW), Anti-Air Warfare (AAW), and Naval Surface Fire Support (NSFS) missions. This project executes pre milestone (MS) B activities and begins preparations for the Engineering, Manufacturing, and Development Phase planned for FY 2020. This includes development of system specifications and interface control documents to support MS B. Maturation of subcomponents and integration risk reduction efforts will be initiated to support MS B Acquisition Milestone and Competitive E&MD Award. The Gun Launched Guided Projectile project was previously funded under the PE 0603925N / Directed Energy and Electronic Weapon Systems (Proj: 3370 Railgun) and 0603795N / Land Attack Tech (Proj: 3370 Railgun). This is not a new start.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Systems Engineering and Testing		0.000				15.529
	Articles:	-	-	-	-	-
FY 2018 Plans: Continue development of Mechanical and Electrical Interface Control Documentation (ICDs). Continue Tactical Subcomponent Risk Reduction Development Efforts. Test MK 45 Mod 4 Initialization and Gun Mount Prototypes verifying interfaces and specifications. Develop documentation required for MS B Entrance Criteria. Continue Risk Reduction Studies. Develop System Architecture for Combat System Integration.						
FY 2019 Base Plans: Finalize and publish Request for Proposals for Engineering, Manufacturing, and Development award. Evaluate technical and cost proposals. Complete development of Mechanical and Electrical Interface Control Documentation (ICDs) Complete documentation required for MS B Entrance Criteria. Continue Tactical Subcomponent Risk Reduction Development Efforts. Continue to develop System Architecture for Combat System Integration.						
FY 2019 OCO Plans:						

PE 0603795N: Land Attack Tech

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy	y			Date: Febr	ruary 2018	
Appropriation/Budget Activity 1319 / 4	ation/Budget Activity R-1 Program Element (Number/Name) PE 0603795N / Land Attack Tech replishments/Planned Programs (\$ in Millions, Article Quantities in Each) FY 20- to FY 2019 Increase/Decrease Statement:		Project (N 3401 / Gui	,		
B. Accomplishments/Planned Programs (\$ in Millions, A	article Quantities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
N/A						
FY 2018 to FY 2019 Increase/Decrease Statement: No significant change from FY 2018 to FY 2019.						

Accomplishments/Planned Programs Subtotals

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

N/A

Remarks

D. Acquisition Strategy

Leveraging the ONR sponsored Future Naval Capabilities project, SCO activities, and Gov't developed Interface Control Drawings and specification to establish a competitive solicitation for Engineering & Manufacturing Development (E&MD) Phase.

E. Performance Metrics

Quarterly Program Reviews, Monthly Reports, and Periodic Design Reviews.

PE 0603795N: Land Attack Tech Navy

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Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	019 Navy	/								Date:	February	2018	
Appropriation/Budge 1319 / 4	t Activity	1					ogram Ele 3795N / L			ame)		(Number Guided Pr	,		
Product Developmen	nt (\$ in M	illions)		FY 2	017	FY 2	2018		2019 Ise		2019 CO	FY 2019 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	Total Cost	Target Value of Contract
Government Engineering Services	WR	NSWC Indian Head : Indian Head, MD	0.000	0.000		0.308	Nov 2017	0.455	Oct 2018	-		0.455	0.000	0.763	-
Projectile Tactical Development	WR	DOTC Competitively Selected Commercial Vendor : Picatinny, NJ	0.000	0.000		5.375	Dec 2017	6.581	Oct 2018	-		6.581	0.000	11.956	-
CSEA Integration	C/CPFF	Lockheed Martin : Minneapolis, MN	0.000	0.000		1.000	Nov 2017	1.068	Oct 2018	-		1.068	0.000	2.068	-
		Subtotal	0.000	0.000		6.683		8.104		-		8.104	0.000	14.787	N/A
Support (\$ in Millions	s)			FY 2	017	FY 2	2018		2019 ise		2019 CO	FY 2019 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
Government Engineering Services	WR	NSWC DD : Dahlgren, VA	0.000	0.000		4.825	Oct 2017	5.150	Oct 2018	-		5.150	0.000	9.975	-
Analysis of Alternatives	C/CPFF	CACI : Arlington, VA	0.000	0.000		2.000	Nov 2017	0.000		-		0.000	0.000	2.000	-
Government Engineering Services	WR	COTF/MCOTEA : Norfolk, VA	0.000	0.000		0.290	Nov 2017	0.290	Oct 2018	-		0.290	0.000	0.580	-
Program Support Services	C/CPFF	MITRE : McLean, VA	0.000	0.000		0.350	Nov 2017	0.450	Oct 2018	-		0.450	0.000	0.800	-
Program Support Services	C/CPFF	JHU/APL : Baltimore, MD	0.000	0.000		0.300	Oct 2017	0.300	Oct 2018	-		0.300	0.000	0.600	-
		Subtotal	0.000	0.000		7.765		6.190		-		6.190	0.000	13.955	N/A
Management Service	s (\$ in M	illions)		FY 2	017	FY 2	2018		2019 ise		2019 CO	FY 2019 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
IWS 3.0 Support	C/CPFF	TMB, CACI, Alion : Arlington, VA	0.000	0.000		1.120	Oct 2017	1.235	Oct 2018	-		1.235	0.000	2.355	-
		Subtotal	0.000	0.000		1.120		1.235		-		1.235	0.000	2.355	N/A

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Navy

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2	2019 Navy	,								Date:	February	2018	
Appropriation/Budget Activity 1319 / 4			•	ement (N Land Atta	umber/Na ck Tech	ame)	•	(Number Guided Pr	,				
	Prior Years	FY 2	2017	FY 2	2018	FY 2	2019 ise	FY 2 OC		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.000		15.568		15.529		-		15.529	0.000	31.097	N/A

Remarks

PE 0603795N: Land Attack Tech Navy

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xhibit R-4, RDT&E Schedule Profile: PB 2019 Navy												Date: February 2018																
ppropriation/Budget Activity 319 / 4															nber Tech		me)							lame ectile				
		FY:	2017	,		FY:	2018	3		FY 2	2019)		FY	2020			FY	2021			FY	202	2		FY:	2023	3
	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
Proj 3401										'				'														
Risk Reduction Studies																												
Technical Studies/Risk Reduction effort																												
System Engineering Plan (SEP) Development																												
Test & Evaluation Mastr Plan (TEMP) Development																												
Milestone B Decision																												

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity	, , ,	• \	umber/Name)
1319 / 4	PE 0603795N I Land Attack Tech	3401 <i>I Gul</i>	ded Projectile

Schedule Details

	Sta	art	En	ıd
Events by Sub Project	Quarter	Year	Quarter	Year
Proj 3401				
Risk Reduction Studies	1	2017	4	2018
Technical Studies/Risk Reduction effort	1	2017	4	2019
System Engineering Plan (SEP) Development	1	2017	2	2018
Test & Evaluation Mastr Plan (TEMP) Development	1	2017	1	2019
Milestone B Decision	4	2019	4	2019

PE 0603795N: Land Attack Tech Navy UNCLASSIFIED
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Exhibit R-2A, RDT&E Project Ju	xhibit R-2A, RDT&E Project Justification: PB 2019 Navy														
Appropriation/Budget Activity 1319 / 4					_	am Elemen 95N / Land /	•	•		(Number/Name) Congressional Adds					
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost			
9999: Congressional Adds	0.000	11.606	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	11.606			
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-					

A. Mission Description and Budget Item Justification

The objective is to demonstrate a 5-inch guided projectile capable of conducting Naval Surface Fire Support missions to a range of not less than 26 nautical miles (nmi). Priority consideration will be given to mature designs capable of achieving qualification for fleet introduction in the near term.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2017	FY 2018
Congressional Add: Fly Off Competition	11.606	0.000
FY 2017 Accomplishments: -Select qualified vendors via a Broad Agency AnnouncementAward multiple contractsObtain prototype projectilesConduct land-based demonstration testing of guided munitionsReview data and document results.		
FY 2018 Plans: N/A		
Congressional Adds Subtotals	11.606	0.000

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

N/A

Remarks

D. Acquisition Strategy

Competitively select qualified vendors to conduct demonstrations.

E. Performance Metrics

Flight Test Readiness Reviews & Test Reports.

PE 0603795N: Land Attack Tech Navy

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					UN	ICLASS	ורובט								
Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2019 Navy	/								Date:	February	2018	
Appropriation/Budg 1319 / 4	et Activity	1					•	ement (No Land Attac		ame)	_	(Numbei Congressi	r/ Name) onal Adds	1	
Product Developme	ent (\$ in M	illions)		FY 2	2017	FY 2	018	FY 2 Ba			2019 CO	FY 2019 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	Total Cost	Target Value of Contract
Production of test flight hardware	C/FFP	TBD : TBD	0.000	8.090	Feb 2018	0.000		0.000		-		0.000	0.000	8.090	-
		Subtotal	0.000	8.090		0.000		0.000		-		0.000	0.000	8.090	N/A
Support (\$ in Millior	ns)			FY 2	2017	FY 2	018	FY 2 Ba			2019 CO	FY 2019 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	Total Cost	Target Value of Contract
Navy Tech Team	WR	NSWC, IH: Picatinny Arsenal, NJ	0.000	0.669	Dec 2017	0.000		0.000		-		0.000	0.000	0.669	-
		Subtotal	0.000	0.669		0.000		0.000		-		0.000	0.000	0.669	N/A
Test and Evaluation	(\$ in Milli	ons)		FY 2	2017	FY 2	018	FY 2 Ba			2019 CO	FY 2019 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
Range Test Support	WR	NSWC DD : Dahlgren, VA	0.000	0.206	Jan 2018	0.000		0.000		-		0.000	0.000	0.206	-
Test Range	WR	White Sands Missle Range : WhiteSands, NM	0.000	2.641	Jan 2018	0.000		0.000		-		0.000	0.000	2.641	-
		Subtotal	0.000	2.847		0.000		0.000		-		0.000	0.000	2.847	N/A
			Prior Years	FY 2	2017	FY 2	018	FY 2 Ba			2019 CO	FY 2019 Total	Cost To	Total Cost	Target Value of Contract
		Project Cost Totals	0.000	11.606		0.000		0.000		-		0.000	0.000	11.606	N/A

Remarks

PE 0603795N: Land Attack Tech

Navy

xhibit R-4, RDT&E Schedule Profile: PB 2019 N	lavy																					Date	: Fe	ebrua	ary 2	2018		
Appropriation/Budget Activity 319 / 4										gram 37951							ne)		Pro 999									
	FY 2017 FY 2018					8	B FY 2019					FY	2020			FY 2	2021			FY 2	2022			FY 2	023			
	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
Proj 9999						,																		,				
Broad Agency Announcement (BAA)																												
Demonstration Testing Contract Award																												
Hardware Preparation and Test Planning																												
Guided Flight Test Series																												
Conduct Test Analysis and Document Results																												

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy			Date: February 2018
11 1	,	, ,	umber/Name)
1319 / 4	PE 0603795N I Land Attack Tech	9999 I Con	ngressional Adds

Schedule Details

	St	art	E	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Proj 9999				
Broad Agency Announcement (BAA)	4	2017	1	2018
Demonstration Testing Contract Award	2	2018	2	2018
Hardware Preparation and Test Planning	2	2018	4	2018
Guided Flight Test Series	4	2018	4	2018
Conduct Test Analysis and Document Results	4	2018	4	2018

PE 0603795N: Land Attack Tech