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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Navy **Date:** February 2015

Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604376M I (U)Marine Air Grnd Task Force(MAGTF)EW for Aviatio							
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	11.576	12.032	7.832	2.778	-	2.778	24.885	23.053	4.017	3.879	Continuing	Continuing
3327: MAGTF EW Aviation Development	11.576	12.032	3.277	1.107	-	1.107	23.086	21.404	3.055	2.896	Continuing	Continuing
3371: MAGTF EW Interoperability Development	0.000	-	4.555	1.671	-	1.671	1.799	1.649	0.962	0.983	Continuing	Continuing

Note
The ALQ-231(V)1 for Rotary Wing aircraft was re-designated ALQ-231(V)3 by ASN(RD&A).

A. Mission Description and Budget Item Justification

This program element includes development of Electronic Warfare (EW) systems for the United States Marine Corps (USMC) tactical aircraft, USMC helicopters, unmanned air vehicles, data link vulnerability assessments, precision targeting, USN and USMC radio frequency jammers, and development and testing of EW devices on emerging platforms to combat emerging threats and emergency contingencies.

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under SYSTEM DEVELOPMENT AND DEMONSTRATION because it includes those projects that have passed Milestone B approval and are conducting engineering and manufacturing development tasks aimed at meeting validated requirement prior to full-rate production decision.

The FY 2016 funding request was reduced by \$268 thousand to account for the availability of prior year execution balances.

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	10.080	7.832	3.065	-	3.065
Current President's Budget	12.032	7.832	2.778	-	2.778
Total Adjustments	1.952	-	-0.287	-	-0.287
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	2.000	-			
• SBIR/STTR Transfer	-0.048	-			
• Rate/Misc Adjustments	-	-	-0.287	-	-0.287

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Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy I BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0604376M I (U)Marine Air Grnd Task Force(MAGTF)EW for Aviatio	
Change Summary Explanation Schedule: Initial Operational Capability (IOC) for ALQ-231 Intrepid Tiger II changed from 1Q FY 2014 to 1Q FY 2016 due to addition of the (V)3 Rotary Wing variant. Schedule for Intrepid Tiger II ALQ-231(V)1 BLK X Radar Jammer added. * PU 3371 created to administratively highlight specific work being done in 3327.		

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy										Date: February 2015		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604376M / (U)Marine Air Grnd Task Force(MAGTF)EW for Aviatio				Project (Number/Name) 3327 / MAGTF EW Aviation Development			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
3327: MAGTF EW Aviation Development	11.576	12.032	3.277	1.107	-	1.107	23.086	21.404	3.055	2.896	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project unit supports the United States Marine Corps development of Marine Air Ground Task Force (MAGTF) Electronic Warfare (EW) and the various elements of its distributed System of Systems (SoS) that support the Commandant of the Marine Corps' Strategy and Vision 2025 and Joint Vision 2025. The SoS will address MAGTF EW sufficiency gaps in the areas of Electronic Attack, EW Support, and Electronic Protection with a multitude of payloads designed for carriage on a variety of organic MAGTF air and ground assets. Payload development plans follow an adaptable, modular and open architecture philosophy to combat the increasing capability gap and enable future growth at a reduced operational and sustainment cost.

The ALQ-231(v)1 pod is the Fixed-Wing variant of the Intrepid Tiger II pod flown on the AV-8B and F/A-18A-D platforms. The ALQ-231(v)2 will be the variant of the Intrepid Tiger II pod flown on unmanned aerial vehicle (UAV) platforms once integration is complete. The ALQ-231(v)3 is the Rotary-Wing variant of the Intrepid Tiger II pod flown on the AH-1 and UH-1 platforms. As of the PresBud15 submission, the ALQ-231(v)1 was the only approved configuration and nomenclature for the Intrepid Tiger II pod. The re-designation of the ALQ-231 variants occurred with the approval of Rapid Deployment Capability authorization for ALQ-231 on Rotary Wing platforms by the Assistant Secretary of the Navy for Research, Development, and Acquisition (ASN(RD&A)) on January 14, 2014.

Prior to FY11, Intrepid Tiger II efforts were budgeted under Program Element (PE) 0604270N, Project Unit (PU) 0556. In FY12, Intrepid Tiger II efforts were budgeted under PE 0604270N, PU 3327.

The sum of All Prior Years does not include a FY 2013 Below Threshold Reprogramming action for \$1.929M. The sum of All Prior Years for Project Unit 3327 should total \$11.576M.

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

	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title: MAGTF EW Software Reprogrammable Payload (SRP)	6.672	-	-	-	-
Articles:	-	-	-	-	-
FY 2014 Accomplishments: Continued transition of SRP and associated components; Collaborative EW/EW Battle Management, and EW Services Architecture (formerly Collaborative Online Reconnaissance Provider Operationally Responsive Attack Link) from a Joint Capabilities Technology Demonstration into a viable capability.					
FY 2015 Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy			Date: February 2015			
Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0604376M I (U)Marine Air Grnd Task Force(MAGTF)EW for Aviatio	Project (Number/Name) 3327 I MAGTF EW Aviation Development			
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
In FY15, SRP was moved to Project Unit 3371.						
FY 2016 Base Plans: N/A						
FY 2016 OCO Plans: N/A						
Title: Intrepid Tiger II (ALQ-231)		5.360	3.277	1.107	-	1.107
Articles:		-	-	-	-	-
FY 2014 Accomplishments: Continued to integrate ALQ-231 Intrepid Tiger II (v)3 on United States Marine Corps rotary wing platforms to include AH-1 and UH-1 Type/Model/Series. Continued to mature hardware technology, update targeting techniques, and correct identified software discrepancies.						
FY 2015 Plans: Continue to integrate ALQ-231 Intrepid Tiger II (v)3 on United States Marine Corps rotary wing platforms to include AH-1 and UH-1 Type/Model/Series and continue efforts to integrate Intrepid Tiger II (ALQ-231) capability on unmanned aerial vehicle (UAV) platforms. Continue to mature hardware technology, update targeting techniques, and correct identified software discrepancies. Continue efforts to identify Intrepid Tiger II based solution to radar threats. Implement logistics plans to support and sustain unmanned aerial vehicle requirements. Continue research efforts to develop an enabling capability to facilitate Collaborative EW (CEW) through shared organic, national and spaced EMS sensing (ES) and coordinated non-kinetic fires (EA) in accordance with spectrum operations objectives by linking C2, operators and sensors across a network interface.						
FY 2016 Base Plans: The Intrepid Tiger II (ALQ-231) program will continue to mature hardware technology, update targeting techniques, and correct identified software discrepancies. Work will continue to identify Intrepid Tiger II based solutions to radar threats in support of the penetrating jammer mission, culminating in the ALQ-231(v)1 BLK X Radar Jammer. Investigate potential for integration of the Intrepid Tiger II capability on tilt-rotor and C-130 platforms. Continue research efforts to develop an enabling capability to facilitate Collaborative EW (CEW) through shared organic, national and spaced EMS sensing (ES) and coordinated non-kinetic fires (EA) in accordance with spectrum operations objectives by linking C2, operators and sensors across a network						

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy				Date: February 2015	
Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0604376M / (U)Marine Air Grnd Task Force(MAGTF)EW for Aviatio		Project (Number/Name) 3327 / MAGTF EW Aviation Development	

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
interface, and continue to explore uses for Intrepid Tiger II with the Cyber Electronic Warfare Coordination Cell (CEWCC).					
FY 2016 OCO Plans: N/A					
Accomplishments/Planned Programs Subtotals	12.032	3.277	1.107	-	1.107

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• 0587: MAGTF EW for Aviation	34.131	14.770	7.680	-	7.680	5.792	5.832	11.455	11.572	126.995	255.723
Remarks											
D. Acquisition Strategy											
This project unit is part of United States Marine Corps led efforts to ensure Marine Corps requirements are included in the budget process for the Future Year Defense Program and beyond. These efforts include ALQ-231 Intrepid Tiger II(v)1, Intrepid Tiger II(v)2, Intrepid Tiger II(v)3, Collaborative Electronic Warfare (EW)/EW Battle Management, EW Payload, and EW Service Architecture (formerly Collaborative Online Reconnaissance Provider Operationally Responsive Attack Link). These programs are the Marine Corps' initial steps to create systems to distribute EW capability across the battle space with the intent of replacing EA-6B capabilities for the Marine Air Ground Task Force (MAGTF) by 2019.											
E. Performance Metrics											
Successful completion of Intrepid Tiger II(v)3 (ALQ-231) Initial Operational Capability (IOC). Commencement of research into Engineering Change Proposals (ECPs) for capability upgrades for Intrepid Tiger II(v)1 and Intrepid Tiger II(v)3 pods.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy													Date: February 2015		
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604376M / (U)Marine Air Grnd Task Force(MAGTF)EW for Aviatio						Project (Number/Name) 3327 / MAGTF EW Aviation Development			

Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Systems Engineering	WR	NAWC AD : Patuxent River, MD	0.200	-		0.050	Jan 2015	0.047	Nov 2015	-		0.047	Continuing	Continuing	Continuing
Systems Engineering	WR	NSWC : Various	0.188	-		0.191	Jan 2015	-		-		-	Continuing	Continuing	Continuing
Systems Engineering	WR	Naval Research Lab : Washington, DC	5.243	6.672	Dec 2013	0.305	Jan 2015	0.125	Nov 2015	-		0.125	Continuing	Continuing	Continuing
Systems Engineering	WR	NAWC WD : Pt. Mugu, CA	1.321	3.272	Nov 2013	1.350	Nov 2014	0.419	Nov 2015	-		0.419	Continuing	Continuing	Continuing
Subtotal			6.952	9.944		1.896		0.591		-		0.591	-	-	-

Remarks
Line items not funded in FY15 or FY16 display "Cont" in the Cost to Complete field in order to preserve the ability to respond to emerging threats that are undefined at the time of budget submission.

Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Development Support	Various	Various : Various	2.628	0.413	May 2014	-		0.415	Nov 2015	-		0.415	Continuing	Continuing	Continuing
Eng & Tech Svc (Non-FFRDC)	Various	Various : Various	1.296	1.675	Nov 2013	0.593	Jan 2015	0.101	Nov 2015	-		0.101	Continuing	Continuing	Continuing
Subtotal			3.924	2.088		0.593		0.516		-		0.516	-	-	-

Remarks
Line items not funded in FY15 or FY16 display "Cont" in the Cost to Complete field in order to preserve the ability to respond to emerging threats that are undefined at the time of budget submission.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy												Date: February 2015			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604376M / (U)Marine Air Grnd Task Force(MAGTF)EW for Aviatio						Project (Number/Name) 3327 / MAGTF EW Aviation Development			

Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Testing	WR	NAWC AD : Patuxent River, MD	0.000	-		0.508	Jan 2015	-		-		-	Continuing	Continuing	Continuing
Flight Testing	WR	NAWC WD : China Lake, CA	0.700	-		0.280	Jan 2015	-		-		-	Continuing	Continuing	Continuing
Subtotal			0.700	-		0.788		-		-		-	-	-	-

Remarks
Line items not funded in FY15 or FY16 display "Cont" in the Cost to Complete field in order to preserve the ability to respond to emerging threats that are undefined at the time of budget submission.

	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	11.576	12.032	3.277	1.107	-	1.107	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Navy

Date: February 2015

Appropriation/Budget Activity

1319 / 5

R-1 Program Element (Number/Name)

PE 0604376M / (U)Marine Air Grnd Task Force(MAGTF)EW for Aviatio

Project (Number/Name)

3327 / MAGTF EW Aviation Development

Intrepid Tiger II (ALQ-231) Communications Jammer	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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
Acquisition Milestones																												
Milestones									ALQ-231(V)3 IOC ▲																			
Systems Development																												
Hardware Development	ALQ-231(V) HW DEV																											
Software Development																												
Test & Evaluation																												
Technical Evaluation																												
Operational Evaluation																												
Production Milestones																												
Contract Awards																												
Deliveries																												

2016PB - 0604376M - 3327

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PE 0604376M I (U)Marine Air Grnd Task
Force(MAGTF)EW for Aviatio

3327 / MAGTF EW Aviation Development

2016PB - 0604376M - 3327

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy			Date: February 2015
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604376M / (U)Marine Air Grnd Task Force(MAGTF)EW for Aviatio	Project (Number/Name) 3327 / MAGTF EW Aviation Development	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Intrepid Tiger II (ALQ-231) Communications Jammer</i>				
Acquisition Milestones: Milestones: ALQ-231(V)3 Initial Operational Capability (IOC)	1	2016	1	2016
Systems Development: Hardware Development: ALQ-231(V) Hardware Development	1	2014	4	2020
Test & Evaluation: Technical Evaluation: ALQ-231(V)3 Integrated Testing	3	2014	1	2015
Test & Evaluation: Operational Evaluation: ALQ-231(V)3 Quick Reaction Assessment (QRA)	2	2015	2	2015
Production Milestones: Contract Awards: ALQ-231(V)3 Production Lot 5 (Qty 17)	2	2015	2	2015
Production Milestones: Contract Awards: ALQ-231(V)3 Production Lot 6 (Qty 8)	2	2016	2	2016
Production Milestones: Contract Awards: ALQ-231(V)3 Production Lot 7 (Qty 5)	2	2017	2	2017
Deliveries: ALQ-231(V)1 BLK 1 Lot 4 Deliveries (Qty 38)	2	2014	1	2015
Deliveries: ALQ-231(V)3 Lot 5 Deliveries (Qty 17)	4	2015	3	2016
Deliveries: ALQ-231(V)3 Lot 6 Deliveries (Qty 8)	4	2016	3	2017
Deliveries: ALQ-231(V)3 Lot 7 Deliveries (Qty 5)	4	2017	3	2018
<i>Intrepid Tiger II (ALQ-231) BLK X Radar Jammer</i>				
Acquisition Milestones: Milestones: ALQ-231(V)1 BLK X Configuration Control Board (CCB)	2	2016	2	2016
Acquisition Milestones: Milestones: ALQ-231(V)1 BLK X Transition from S&T project	1	2017	1	2017
Acquisition Milestones: Milestones: ALQ-231(V)1 BLK X TD Fleet Release	2	2019	2	2019
Acquisition Milestones: Milestones: ALQ-231(V)1 BLK X In Progress Review	3	2018	3	2018
Systems Development: Hardware Development: ALQ-231(V)1 BLK X Hardware Development	1	2017	2	2019
Systems Development: Software Development: ALQ-231(V)1 BLK X Software Development	1	2017	4	2017

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy			Date: February 2015		
Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0604376M I (U)Marine Air Grnd Task Force(MAGTF)EW for Aviatio		Project (Number/Name) 3327 I MAGTF EW Aviation Development	
		Start		End	
Events by Sub Project		Quarter	Year	Quarter	Year
Test & Evaluation: Technical Evaluation: ALQ-231(V)1 BLK X Developmental/ Performance Test		2	2017	2	2018
Test & Evaluation: Operational Evaluation: ALQ-231(V)1 BLK X IOT&E		4	2018	1	2019
Production Milestones: Contract Awards: ALQ-231(V)1 BLK X Production Lot 1 (5 units)		3	2018	3	2018
Production Milestones: Contract Awards: ALQ-231(V)1 BLK X Production Lot 2 (12 units)		2	2019	2	2019
Production Milestones: Contract Awards: ALQ-231(V)1 BLK X Production Lot 3 (12 units)		2	2020	2	2020
Deliveries: ALQ-231(V)1 BLK X EDM (6 units)		2	2017	1	2018
Deliveries: ALQ-231(V)1 BLK X Production Lot 1 Deliveries (5 units)		1	2019	2	2019
Deliveries: ALQ-231(V)1 BLK X Production Lot 2 Deliveries (12 units)		4	2019	3	2020
Deliveries: ALQ-231(V)1 BLK X Production Lot 3 Deliveries (12 units)		4	2020	4	2020

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy										Date: February 2015		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604376M / (U)Marine Air Grnd Task Force(MAGTF)EW for Aviatio				Project (Number/Name) 3371 / MAGTF EW Interoperability Development			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
3371: MAGTF EW Interoperability Development	-	-	4.555	1.671	-	1.671	1.799	1.649	0.962	0.983	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		
Note												
PU 3371 has been created to administratively highlight specific work that was being done in 3327. This Project Unit continues efforts previously funded under PU 3327 and is not a new start for FY 2015.												
A. Mission Description and Budget Item Justification												
This project unit supports the United States Marine Corps Air-Ground interoperability by providing a variety of capabilities through multiple functions of the Software Reprogrammable Payload (SRP) when installed onboard SRP capable aircraft. The spiral development plans allow adaptable, scalable and open architecture philosophy to reduce stove pipe solutions but enable future growth at a reduced operational and sustainment cost.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title: Software Reprogrammable Payload								-	4.555	1.671	-	1.671
								Articles: -	-	-	-	-
FY 2014 Accomplishments: N/A												
FY 2015 Plans: Begin to integrate the Spiral 2 SRP on the United States Marine Corps MV-22 Platform.												
FY 2016 Base Plans: Continue integration of the SRP on the United States Marine Corps MV-22 Platform.												
FY 2016 OCO Plans: N/A												
Accomplishments/Planned Programs Subtotals								-	4.555	1.671	-	1.671

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy										Date: February 2015	
Appropriation/Budget Activity 1319 / 5				R-1 Program Element (Number/Name) PE 0604376M / (U)Marine Air Grnd Task Force(MAGTF)EW for Aviatio				Project (Number/Name) 3371 / MAGTF EW Interoperability Development			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• 0587: Software Reprogrammable Payload	-	2.100	-	-	-	-	-	-	-	-	2.589
Remarks											
D. Acquisition Strategy											
This project unit is part of United States Marine Corps led efforts to ensure Marine Corps requirements are included in the budget process for the Future Year Defense Program and beyond. This effort is for the Software Reprogrammable Payload. This program is part of the Marine Corps initial steps to create a common interoperable system to distribute multiple data types across the battle space through spiral development.											
E. Performance Metrics											
Successful completion of the Spiral 2 Development and Demonstration onboard MV-22 Test Platform.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy												Date: February 2015			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604376M / (U)Marine Air Grnd Task Force(MAGTF)EW for Aviatio						Project (Number/Name) 3371 / MAGTF EW Interoperability Development			
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Systems Engineering	WR	NAWCAD : Patuxent River, MD	0.000	-		1.680	Oct 2014	0.330	Nov 2015	-		0.330	Continuing	Continuing	Continuing
Systems Engineering	WR	NRL : Washington, DC	0.000	-		0.330	Dec 2014	0.130	Nov 2015	-		0.130	Continuing	Continuing	Continuing
Systems Engineering	C/CPFF	Assurance Technology Corp : Carlisle, MA	0.000	-		2.000	Dec 2014	-		-		-	-	2.000	2.000
Subtotal			0.000	-		4.010		0.460		-		0.460	-	-	-
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Engineering and Tech Support	C/FFP	TBD : TBD	0.000	-		-		1.211	Nov 2015	-		1.211	-	1.211	1.211
Engineering and Tech Support	C/FFP	NSMA : Washington, DC	0.000	-		0.095	Nov 2014	-		-		-	-	0.095	0.095
Subtotal			0.000	-		0.095		1.211		-		1.211	-	1.306	1.306
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Test and Evaluation	MIPR	GAPO FT : Ft. Belvoir, VA	0.000	-		0.450	Nov 2014	-		-		-	-	0.450	0.450
Subtotal			0.000	-		0.450		-		-		-	-	0.450	0.450
Project Cost Totals			0.000	-		4.555		1.671		-		1.671	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy							Date: February 2015			
Appropriation/Budget Activity 1319 / 5			R-1 Program Element (Number/Name) PE 0604376M / (U)Marine Air Grnd Task Force(MAGTF)EW for Aviatio			Project (Number/Name) 3371 / MAGTF EW Interoperability Development				
	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks										

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PE 0604376M: (U)Marine Air Grnd Task Force(MAGTF)EW f...
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Project (Number/Name)	Start Date	End Date	Duration (Days)	Project Manager	Status	Notes
101	2023-01-01	2023-01-15	14	John Doe	Completed	Project completed successfully.
102	2023-01-15	2023-02-01	16	Jane Smith	In Progress	Project is currently in progress.
103	2023-02-01	2023-02-15	14	John Doe	Completed	Project completed successfully.
104	2023-02-15	2023-03-01	15	Jane Smith	In Progress	Project is currently in progress.
105	2023-03-01	2023-03-15	14	John Doe	Completed	Project completed successfully.
106	2023-03-15	2023-03-31	15	Jane Smith	In Progress	Project is currently in progress.
107	2023-03-31	2023-04-15	15	John Doe	Completed	Project completed successfully.
108	2023-04-15	2023-04-30	15	Jane Smith	In Progress	Project is currently in progress.
109	2023-04-30	2023-05-15	15	John Doe	Completed	Project completed successfully.
110	2023-05-15	2023-05-31	15	Jane Smith	In Progress	Project is currently in progress.

PE 0604376M I (U)Marine Air Grnd Task
Force(MAGTF)EW for Aviatio

3371 / MAGTF EW Interoperability Development

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy			Date: February 2015
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604376M / (U)Marine Air Grnd Task Force(MAGTF)EW for Aviatio	Project (Number/Name) 3371 / MAGTF EW Interoperability Development	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
MAGTF EW Interoperability Development				
Acquisiton Milestones: SPIRAL 2 SYSTEM DEVELOPMENT	1	2015	4	2015
Acquisiton Milestones: SPIRAL 3 SYSTEM DEVELOPMENT	4	2016	4	2020
Systems Evaluation: SPIRAL 2 SYSTEM EVALUATION MV-22	1	2016	3	2016
Systems Evaluation: SPIRAL 2 FIELD EVALUATION MV-22	4	2016	4	2017