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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604376M I (U) <i>Marine Air Grnd Task Force(MAGTF)EW for Aviatio</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	23.608	9.219	2.778	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	35.605
3327: <i>MAGTF EW Aviation Development</i>	23.608	4.079	1.107	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	28.794
3371: <i>MAGTF EW Interoperability Development</i>	0.000	5.140	1.671	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	6.811

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.

PE 0604376M consolidated to PE 0604270N beginning in FY17.

B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	7.832	2.778	24.885	-	24.885
Current President's Budget	9.219	2.778	0.000	-	0.000
Total Adjustments	1.387	0.000	-24.885	-	-24.885
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	1.537	0.000			
• SBIR/STTR Transfer	-0.149	0.000			
• Program Adjustments	0.000	0.000	-24.885	-	-24.885
• Rate/Misc Adjustments	-0.001	0.000	0.000	-	0.000

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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: All RDT&EN events scheduled to occur after 1Q FY 2017 have been removed due to PE realignment.

ALQ-231(V)3 Quick Reaction Assessment moved from FY15 2nd quarter to FY16 2nd quarter due to UH-1Y test aircraft availability.

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy										Date: February 2016		
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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
3327: MAGTF EW Aviation Development	23.608	4.079	1.107	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	28.794
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 FY 2011, Intrepid Tiger II efforts were budgeted under Program Element (PE) 0604270N, Project Unit (PU) 0556.

In FY 2012, Intrepid Tiger II efforts were budgeted under PE 0604376M, PU 3327. In FY 2017, Intrepid Tiger II efforts are budgeted under PE 0604270N, PU 3327.

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: Intrepid Tiger II (ALQ-231)	4.079	1.107	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2015 Accomplishments:					
In FY 2015, the Intrepid Tiger II (ALQ-231) program continued to integrate ALQ-231 Intrepid Tiger II (v)3 on United States Marine Corps rotary wing platforms to include the UH-1 Type/Model/Series and continued efforts to integrate Intrepid Tiger II (ALQ-231) capability on unmanned aerial vehicle (UAV) and tilt-rotor platforms. The program continued to mature hardware technology, update targeting techniques, and correct identified software discrepancies. Efforts to identify Intrepid Tiger II based solution to radar threats also continued. Additionally, the program continued research efforts to develop an enabling capability to facilitate Collaborative EW (CEW) through shared organic, national and spaced Electro Magnetic Spectrum sensing (ES) and coordinated non-					

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
kinetic fires (EA) in accordance with spectrum operations objectives by linking C2, operators and sensors across a network interface.					
<i>FY 2016 Plans:</i> 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 ES and coordinated non-kinetic fires (EA) in accordance with spectrum operations objectives by linking C2, operators and sensors across a network interface, and continue to explore uses for Intrepid Tiger II with the Cyber Electronic Warfare Coordination Cell (CEWCC).					
<i>FY 2017 Base Plans:</i> The Intrepid Tiger II (ALQ-231) program has moved to Program Element (PE) 0604270N Project Unit (PU) 3327 in FY 2017.					
<i>FY 2017 OCO Plans:</i> N/A					
Accomplishments/Planned Programs Subtotals	4.079	1.107	0.000	0.000	0.000

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

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• APN/0587: MAGTF EW for Aviation	17.170	7.680	5.676	-	5.676	5.682	11.267	11.360	11.588	135.059	277.109

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.

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
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

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 2017 Navy												Date: February 2016			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
1319 / 5				PE 0604376M / (U) Marine Air Grnd Task Force(MAGTF)EW for Aviatio				3327 / MAGTF EW Aviation Development							
Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	0.000		0.000		0.000		-		0.000	0.000	0.200	-
Systems Engineering	WR	NSWC : Various	0.188	0.000		0.000		0.000		-		0.000	0.000	0.188	-
Systems Engineering	WR	Naval Research Lab : Washington, DC	11.915	0.000		0.000		0.000		-		0.000	0.000	11.915	-
Systems Engineering	WR	NAWC WD : Pt. Mugu, CA	4.593	2.682	Nov 2014	1.107	Nov 2015	0.000		-		0.000	0.000	8.382	-
Subtotal			16.896	2.682		1.107		0.000		-		0.000	0.000	20.685	-
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	3.041	1.011	Jun 2015	0.000		0.000		-		0.000	0.000	4.052	3.456
Eng & Tech Svc (Non-FFRDC)	Various	Various : Various	2.971	0.344	Jan 2015	0.000		0.000		-		0.000	0.000	3.315	4.259
Subtotal			6.012	1.355		0.000		0.000		-		0.000	0.000	7.367	7.715
Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	0.000		0.000		0.000		-		0.000	0.000	0.000	-
Flight Testing	WR	NAWC WD : China Lake, CA	0.700	0.000		0.000		0.000		-		0.000	0.000	0.700	-
Subtotal			0.700	0.000		0.000		0.000		-		0.000	0.000	0.700	-

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy		Date: February 2016
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

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Intrepid Tiger II (ALQ-231)				
Acquisition Milestones: Milestones: ALQ-231(V)3 Initial Operational Capability (IOC)	1	2016	1	2016
Acquisition Milestones: Milestones: ALQ-231(V)1 BLK X Configuration Control Board (CCB)	2	2016	2	2016
Systems Development: Hardware Development: ALQ-231(V) Hardware Development	1	2015	4	2016
Test & Evaluation: Technical Evaluation: ALQ-231(V)3 Integrated Testing	1	2015	1	2015
Test & Evaluation: Operational Evaluation: ALQ-231(V)3 Quick Reaction Assessment (QRA)	2	2016	2	2016
Production Milestones: Contract Awards: ALQ-231(V)3 Production Lot 5 (Qty 5)	2	2015	2	2015
Production Milestones: Contract Awards: ALQ-231(V)3 Production Lot 6 (Qty 3)	2	2016	2	2016
Production Milestones: Contract Awards: ALQ-231(V)3 Production Lot 7 (Qty 5)	2	2017	2	2017
Production Milestones: Contract Awards: ALQ-231(V)3 Production Lot 8 (Qty 5)	2	2018	2	2018
Deliveries: ALQ-231(V)1 BLK 1 Lot 4 Deliveries (Qty 38)	1	2015	1	2015
Deliveries: ALQ-231(V)3 Lot 5 Deliveries (Qty 5)	4	2015	3	2016
Deliveries: ALQ-231(V)3 Lot 6 Deliveries (Qty 3)	4	2016	3	2017
Deliveries: ALQ-231(V)3 Lot 7 Deliveries (Qty 5)	4	2017	3	2018
Deliveries: ALQ-231(V)3 Lot 8 Deliveries (Qty 5)	4	2018	3	2019

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy **Date:** February 2016

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
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
3371: MAGTF EW Interoperability Development	0.000	5.140	1.671	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	6.811
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

In FY17 this PU will move into PE 0604270N.

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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: Software Reprogrammable Payload	5.140	1.671	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2015 Accomplishments: Continue with the integration of Spiral 2 SRP on the United States Marine Corps MV-22 Platform.					
FY 2016 Plans: Continue integration of the SRP on the United States Marine Corps MV-22 Platform.					
FY 2017 Base Plans: N/A					
FY 2017 OCO Plans: N/A					
Accomplishments/Planned Programs Subtotals	5.140	1.671	0.000	0.000	0.000

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

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• 0587: Software Reprogrammable Payload	2.100	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	2.589

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy	Date: February 2016
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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
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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u> <u>Base</u>	<u>FY 2017</u> <u>OCO</u>	<u>FY 2017</u> <u>Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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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 2017 Navy												Date: February 2016			
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 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	1.104	Oct 2014	0.330	Oct 2015	0.000		-		0.000	0.000	1.434	-
Systems Engineering	WR	NRL : Washington, DC	0.000	0.380	Dec 2014	0.130	Nov 2015	0.000		-		0.000	0.000	0.510	-
Systems Engineering	C/CPFF	Assurance Technology Corp : Carlisle, MA	0.000	2.200	Dec 2014	0.185	Jan 2016	0.000		-		0.000	0.000	2.385	2.385
Systems Engineering	C/CPFF	DCS : Alexandria, VA	0.000	0.350	Jun 2015	0.185	Jan 2016	0.000		-		0.000	0.000	0.535	0.535
Subtotal			0.000	4.034		0.830		0.000		-		0.000	0.000	4.864	-
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	Computer Systems Center : Springfield, VA	0.000	0.510	Jun 2015	0.841	Feb 2016	0.000		-		0.000	0.000	1.351	1.351
Engineering and Tech Support	C/FFP	NSMA : Washington, DC	0.000	0.095	Nov 2014	0.000		0.000		-		0.000	0.000	0.095	0.095
Subtotal			0.000	0.605		0.841		0.000		-		0.000	0.000	1.446	1.446
Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	0.000		0.000		-		0.000	0.000	0.450	-
Subtotal			0.000	0.450		0.000		0.000		-		0.000	0.000	0.450	-

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy **Date:** February 2016

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
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	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021															
	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												
MAGTF EW Interoperability Development																																								
Acquisiton Milestones	SPIRAL 2 SYSTEM DEVELOPMENT				SPIRAL 3 SYSTEM DEVELOPMENT																																			
Systems Evaluation					SPIRAL 2 SYSTEM EVALUATION MV-22				SPIRAL 2 FIELD EVALUATION MV-22																															

2017DON - 0604376M - 3371

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy		Date: February 2016
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	2016
Systems Evaluation: SPIRAL 2 SYSTEM EVALUATION MV-22	1	2016	3	2016
Systems Evaluation: SPIRAL 2 FIELD EVALUATION MV-22	4	2016	4	2016

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