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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604376M: (U)Marine Air Grnd Task Force(MAGTF)EW for Aviatio							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	10.568	10.080	-	10.080	10.111	3.847	3.280	3.265	Continuing	Continuing
3327: MAGTF EW Aviation Development	0.000	0.000	10.568	10.080	-	10.080	10.111	3.847	3.280	3.265	Continuing	Continuing
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
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.												
B. Program Change Summary (\$ in Millions)				FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total				
Previous President's Budget				0.000	10.568	12.203	-	12.203				
Current President's Budget				0.000	10.568	10.080	-	10.080				
Total Adjustments				0.000	0.000	-2.123	-	-2.123				
• Congressional General Reductions				-	-							
• Congressional Directed Reductions				-	-							
• Congressional Rescissions				-	-							
• Congressional Adds				-	-							
• Congressional Directed Transfers				-	-							
• Reprogrammings				-	-							
• SBIR/STTR Transfer				-	-							
• Program Adjustments				0.000	0.000	-0.026	-	-0.026				
• Rate/Misc Adjustments				0.000	0.000	-2.097	-	-2.097				
Change Summary Explanation												
* Prior to FY13, this program was funded under PE 0604270N, PU 3327.												

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Intrepid Tiger II (ALQ-231) EOC slid from first quarter FY2012 to third quarter FY2012 due to the correction of deficiencies identified in testing. IOC is quantity-driven and slid from third quarter FY2012 to first quarter FY2014 due to Congressional Mark to FY2012 APN budget that reduced procurement quantity. Block 1 Test/QRA was added after approval of Rapid Deployment Capability (RDC) request for F/A-18C/D platform. Software Reprogrammable Payload IOC shifted from fourth quarter FY2013 to third quarter FY2016 due to delays in testing and shift to spiral development strategy. FOC was deleted due to changes in fielding profile. JCTD was replaced with KC-130 Tech Demo. Electronic Warfare Battle Management Schedule shifted from first quarter FY2013 to first quarter FY2014 due to OCO funding reduction in FY2013. Operational Evaluation of IP Based EWBM on EA-6B was deleted due to pending sundown of that platform and renewed focus on platform-agnostic approach as part of the MAGTF EW 2020 vision.		

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COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
3327: MAGTF EW Aviation Development	0.000	0.000	10.568	10.080	-	10.080	10.111	3.847	3.280	3.265	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
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.												
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												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: MAGTF EW Software Reprogrammable Payload (SRP) Articles: FY 2013 Plans: Continue transition of SRP and associated components; Collaborative EW/EW Battle Management, EW Services Architecture (formerly Collaborative Online Reconnaissance Provider Operationally Responsive Attack Link), and Intrepid Tiger II(v)2 from its Joint Capabilities Technology Demonstration into a viable capability. FY 2014 Plans: Continue transition of SRP and associated components; Collaborative EW/EW Battle Management, EW Services Architecture (formerly Collaborative Online Reconnaissance Provider Operationally Responsive Attack Link), and Intrepid Tiger II(v)2 from its Joint Capabilities Technology Demonstration into a viable capability.									0.000	4.633 0	4.075 0	
Title: Intrepid Tiger II (v)1 (ALQ-231) Articles: FY 2013 Plans:									0.000	4.735 0	4.164 0	

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)							FY 2012	FY 2013	FY 2014		
Integrate Intrepid Tiger II (v)1 (ALQ-231) on United States Marine Corps rotary wing platforms to include AH-1 and UH-1 Type/Model/Series. Continue to mature hardware technology, update targeting techniques, and correct identified software discrepancies. Implement logistics plans to support and sustain rotary wing requirements. FY 2014 Plans: Continue to integrate Intrepid Tiger II (v)1 (ALQ-231) on United States Marine Corps rotary wing platforms to include AH-1 and UH-1 Type/Model/Series and begin efforts to integrate Intrepid Tiger II (v)1 (ALQ-231) on unmanned aerial vehicle (UAV) platforms. Continue to mature hardware technology, update targeting techniques, and correct identified software discrepancies. Implement logistics plans to support and sustain unmanned aerial vehicle requirements.											
Title: EA-6B Multifunctional Information Distribution System Block Upgrade FY 2013 Plans: Development and testing of the Link-16 modification. These data link enhancements will enable the EA-6B Improved Capability III continued participation within Force Net and synthesize electronic attack contributions within Network Centric Warfare to provide greater Electronic Warfare (EW) situational awareness to the warfighter. FY 2014 Plans: Begin integration and continue testing of Link-16 modification. Link 16 Provides a North Atlantic Treaty Organization (NATO) interoperable, jam-resistant, high speed, encrypted data link for Precise Participant Location and Identification, Surveillance, Command and Control, and Electronic Warfare & Coordination. Multifunctional Information Distribution System (MIDS) Block Upgrade 2 will address obsolescence (which is an National Security Agency mandated change), frequency reallocation and provide enhanced throughput. Will modify existing MIDS Low Volume Terminal (LVT) units on the aircraft. Will add additional circuit cards, and modify chassis to enable the cryptographic modernization requirement.							0.000	1.200 0	1.841 0		
Accomplishments/Planned Programs Subtotals							0.000	10.568	10.080		
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• 0587: MAGTF EW for Aviation	0.489	34.127	14.431		14.431	15.125	8.001	6.073	6.165	Continuing	Continuing
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 Software Reprogrammable Payload, Intrepid Tiger II(v)1 (ALQ-231), Intrepid Tiger II(v)2, Collaborative Electronic Warfare											

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(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.		
<u>E. Performance Metrics</u> Successful completion of Intrepid Tiger II(v)1 (ALQ-231) Initial Operations Capability (IOC). Completion of Intrepid Tiger II(v)1 (ALQ-231) integration on USMC rotary wing platforms. Engineering Development Model (EDM) Lot 3 Developmental Testing/Operational Testing.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
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Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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	0.000	0.000		0.200	Nov 2012	0.313	Nov 2013	-		0.313	Continuing	Continuing	Continuing
Systems Engineering	WR	NSWC:Various	0.000	0.000		0.188	Nov 2012	0.191	Nov 2013	-		0.191	Continuing	Continuing	Continuing
Systems Engineering	WR	Naval Research Lab:Washington, DC	0.000	0.000		5.243	Dec 2012	4.585	Dec 2013	-		4.585	Continuing	Continuing	Continuing
Systems Engineering	WR	NAWC WD:Pt. Mugu, CA	0.000	0.000		1.341	Nov 2012	1.773	Nov 2013	-		1.773	Continuing	Continuing	Continuing
Subtotal			0.000	0.000		6.972		6.862		0.000		6.862			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Eng & Tech Srvc (Non-FFRDC)	Various	Various:Various	0.000	0.000		1.296	Nov 2012	1.287	Nov 2013	-		1.287	Continuing	Continuing	Continuing
Subtotal			0.000	0.000		1.296		1.287		0.000		1.287			
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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		1.600	Nov 2012	1.255	Nov 2013	-		1.255	Continuing	Continuing	Continuing
Flight Testing	WR	NAWC WD:China Lake, CA	0.000	0.000		0.700	Nov 2012	0.676	Nov 2013	-		0.676	Continuing	Continuing	Continuing
Subtotal			0.000	0.000		2.300		1.931		0.000		1.931			
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	0.000		10.568		10.080		0.000		10.080			

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	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 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 for Aviatio
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R-1 ITEM NOMENCLATURE

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

3327: MAGTF EW Aviation Development

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R-1 ITEM NOMENCLATURE

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3327: MAGTF EW Aviation Development

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Software Reprogrammable Payload</i>				
Acquisition Milestones: Milestones: Initial Operational Capability (IOC)	3	2016	3	2016
Test & Evaluation: Technical Evaluation: KC-130 Technical Demonstration	4	2012	1	2013
<i>Intrepid Tiger II (ALQ-231)</i>				
Acquisition Milestones: Milestones: Early Operational Capability (EOC)	3	2012	3	2012
Acquisition Milestones: Milestones: IOC	1	2014	1	2014
Test & Evaluation: Operational Evaluation: Block 1 Test/Quick Reaction Assessment (QRA)	4	2012	2	2013
Deliveries: Lot 2 Deliveries (Qty 8)	2	2012	1	2013
Deliveries: Lot 3 Deliveries (Qty 28)	2	2013	1	2014
Deliveries: Lot 4 Deliveries (Qty 21)	2	2014	1	2015