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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy	DATE: February 2012
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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0204460M: <i>Ground/Air Task Oriented Radar (G/ATOR)</i>
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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	-	-	75.088	-	75.088	78.436	96.484	74.783	76.037	Continuing	Continuing
9C89: <i>Marine Ground-Air Radar</i>	-	-	75.088	-	75.088	78.436	96.484	74.783	76.037	Continuing	Continuing

A. Mission Description and Budget Item Justification

Ground/Air Task Oriented Radar (G/ATOR) (formerly known as the Multi-Role Radar System (MRRS)) is an expeditionary, 3-dimensional, high-mobility, multi-purpose wheeled vehicle, short/medium range multi-role radar designed to detect cruise missiles, air breathing targets, rockets, mortars, and artillery. MRRS and GWLR (Ground Weapons Locating Radar) merged into a single requirement/capability (G/ATOR) and will replace an aging fleet of single mission legacy radar systems. G/ATOR will support air defense, air surveillance, counter-battery/target acquisition, aviation radar tactical enhancements and the final evolution will also support the Air Traffic Control mission. This project was funded under Program Element 0206313M Project C3099 prior to FY 2010 and Program Element 0206313M Project 9C89 in FY11 and 12. It was moved to Program Element 0204460M in FY13.

B. Program Change Summary (\$ in Millions)	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013 Base</u>	<u>FY 2013 OCO</u>	<u>FY 2013 Total</u>
Previous President's Budget	-	-	-	-	-
Current President's Budget	-	-	75.088	-	75.088
Total Adjustments	-	-	75.088	-	75.088
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	-	-	75.088	-	75.088

Change Summary Explanation

Technical: Not applicable.
Schedule: Not applicable.

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy								DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0204460M: Ground/Air Task Oriented Radar (G/ATOR)				PROJECT 9C89: Marine Ground-Air Radar			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
9C89: Marine Ground-Air Radar	-	-	75.088	-	75.088	78.436	96.484	74.783	76.037	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification											
Ground/Air Task Oriented Radar (G/ATOR) (formerly known as the Multi-Role Radar System (MRRS)) is an expeditionary, 3-dimensional, high-mobility, multi-purpose wheeled vehicle, short/medium range multi-role radar designed to detect cruise missiles, air breathing targets, rockets, mortars, and artillery. MRRS and GWLR (Ground Weapons Locating Radar) merged into a single requirement/capability (G/ATOR) and will replace an aging fleet of single mission legacy radar systems. G/ATOR will support air defense, air surveillance, counter-battery/target acquisition, aviation radar tactical enhancements and the final evolution will also support the Air Traffic Control mission. This project was funded under Program Element 0206313M Project C3099 prior to FY 2010 and Program Element 0206313M Project 9C89 in FY11 and 12. It was moved to Program Element 0204460M beginning in FY13.											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2011	FY 2012	FY 2013	
Title: G/ATOR Contractor Technical, Development Engineering/EDM Articles: FY 2013 Plans: Finish Developmental Test 1B (DT1B), provide support for the conduct of Operational Assessment (OA), provide hardware and software update support in support of government directed changes as a result of DT1B and OA testing, assist in the development of program documentation in support of Milestone C (MS C), continue Anti-Tamper (AT) efforts, and continue to assist the government in development of LRIP configuration in support of Transition to LRIP.								-	-	49.754	0
Title: G/ATOR: Test and Evaluation Articles: FY 2013 Plans: Provide support for the completion of DT1B, provide support for the conduct of Operational Assessment (OA).								-	-	8.436	0
Title: G/ATOR: Program Office Management & Travel Costs Articles: FY 2013 Plans: Continue travel efforts in support of system development and test.								-	-	0.300	0
Title: Government Technical Support Articles: FY 2013 Plans:								-	-	9.902	0

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)				FY 2011	FY 2012	FY 2013
Government support from these activities to enable program execution; MITRE, NSWC Dahlgren, NSWC Crane, NSWC PHD, MARCORSYSCOM and MCOTEA.						
Title: G/ATOR: Engineering, Management, & Logistics Support FY 2013 Plans: Begin engineering, management & logistics program office support from CEOSS awardee.				-	-	6.696 0
Accomplishments/Planned Programs Subtotals				-	-	75.088

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• PMC/465000: <i>GRND/AIR TASK ORIENTED RADAR</i>	0.000	0.000	90.348	0.000	90.348	109.025	80.310	254.185	258.581	Continuing	Continuing

D. Acquisition Strategy	
The Ground/Air Task Oriented Radar (G/ATOR), formerly known as Multi-Role Radar System (MRRS) will fill the MRRS and GWLR requirements. Five legacy systems (AN/TPS-63, AN/UPS-3, AN/MPQ-62, AN/TPS-73 and AN/TPQ-46A) will be replaced by a single material design that offers an opportunity to reduce development cost and combine training and logistics assets. MRRS Aviation systems replace the AN/TPS-63, AN/MPQ-62 and AN/TPS-73 systems, as well as additional systems in support of the Short Range Air Defense (SHORAD) mission; MRRS Ground system is a one for one replacement of the AN/TPQ-46A. The Engineering Manufacturing Development (EMD) phase allows for technology insertion due to obsolescence and technology growth issues. As Tactical Enhancements become available, fielded systems will be backfitted. Two Engineering Development Models (EDM), (one Contractor, one Government), will be developed during the EMD phase and flowed down to support builds.	

E. Performance Metrics
N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy											DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0204460M: Ground/Air Task Oriented Radar (G/ATOR)				PROJECT 9C89: Marine Ground-Air Radar						
Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
G/ATOR	C/CPIF	NORTHROP GRUMMAN SYSTEMS CORPORATION:LINTHICUM HEIGHTS, MD	-	-		49.754	Dec 2012	-		49.754	0.000	49.754		
Subtotal			-	-		49.754		-		49.754	0.000	49.754		
Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
G/ATOR	FFRDC	MITRE:BOSTON, MA	-	-		1.518	Dec 2012	-		1.518	0.000	1.518		
G/ATOR	WR	NSWC-DAHLGREN:DAHLGREN, VA	-	-		6.736	Dec 2012	-		6.736	0.000	6.736		
G/ATOR	WR	NSWC-CRANE:CRANE, IN	-	-		0.307	Dec 2012	-		0.307	0.000	0.307		
G/ATOR	C/FP	MCSC:QUANTICO, VA	-	-		0.225	Dec 2012	-		0.225	0.000	0.225		
G/ATOR	C/CPIF	MCOTEA:QUANTICO, VA	-	-		0.512	Dec 2012	-		0.512	0.000	0.512		
G/ATOR	WR	NSWC-PHD:DAM NECK, VA	-	-		0.604	Dec 2012	-		0.604	0.000	0.604		
Subtotal			-	-		9.902		-		9.902	0.000	9.902		
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
G/ATOR	C/CPIF	NORTHROP GRUMMAN SYSTEMS CORPORATION:LINTHICUM HEIGHTS, MD	-	-		3.801	Dec 2012	-		3.801	0.000	3.801		
G/ATOR	C/CPFF	AIMS:ROBINS AFB, GA	-	-		0.031	Dec 2012	-		0.031	0.000	0.031		

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1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development					PE 0204460M: Ground/Air Task Oriented Radar (G/ATOR)				9C89: Marine Ground-Air Radar					
Test and Evaluation (\$ in Millions)					FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
G/ATOR	WR	NSWC-DAHLGREN:DAHLGREN, VA	-	-		0.125	Dec 2012	-		0.125	0.000	0.125		
G/ATOR	MIPR	JTIC:FORT HUACHUCA, AZ	-	-		0.018	Dec 2012	-		0.018	0.000	0.018		
G/ATOR	C/CPIF	MCOTEA:QUANTICO, VA	-	-		3.462	Dec 2012	-		3.462	Continuing	Continuing	Continuing	
G/ATOR	WR	NSWC-CORONA:CORONA, CA	-	-		0.062	Dec 2012	-		0.062	Continuing	Continuing	Continuing	
G/ATOR	MIPR	MARINE CORPS AIR STATION:YUMA, AZ	-	-		0.937	Dec 2012	-		0.937	Continuing	Continuing	Continuing	
Subtotal			-	-		8.436		-		8.436				
Management Services (\$ in Millions)					FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
G/ATOR	C/FP	MCSC:MCSC-QUANTICO, VA	-	-		6.696	Dec 2012	-		6.696	0.000	6.696		
G/ATOR	Various	MCSC:QUANTICO, VA	-	-		0.300	Sep 2013	-		0.300	Continuing	Continuing	Continuing	
Subtotal			-	-		6.996		-		6.996				
			Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			-	-		75.088		-		75.088				
Remarks														

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy			DATE: February 2012
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 9C89				
Defense/Air Surveillance AS/AD Capability System Demonstration (DT)(1B)	2	2012	4	2012
Defense/Air Surveillance AS/AD Capability System Demonstration (DT/OT)(1C)	3	2015	1	2016
Defense/Air Surveillance AS/AD Capability Operational Assessment (OA)	4	2012	1	2013
Defense/Air Surveillance AS/AD Capability Low Rate Initial Production (LRIP)	3	2013	3	2017
Defense/Air Surveillance AS/AD Capability Milestone C	3	2013	3	2013
Defense/Air Surveillance AS/AD Capability (IOT&E)	2	2016	2	2016
Defense/Air Surveillance AS/AD Capability (IOC)	4	2016	4	2016
Defense/Air Surveillance AS/AD Capability Full Rate Production Decision	4	2016	4	2016