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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0204460M I (U)Ground/Air Task Oriented Radar (G/ATOR)							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	70.217	78.208	99.106	-	99.106	79.595	82.416	32.849	20.431	Continuing	Continuing
9C89: Marine Ground-Air Radar	0.000	70.217	78.208	99.106	-	99.106	79.595	82.416	32.849	20.431	Continuing	Continuing

MDAP/MAIS Code:

Other MDAP/MAIS Code(s): 386

The FY 2015 OCO Request will be submitted at a later date.

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 FY2010 and Program Element 0206313M Project 9C89 in FY2011-2012. It was moved to Program Element 0204460M in FY2013.

B. Program Change Summary (\$ in Millions)	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015 Base</u>	<u>FY 2015 OCO</u>	<u>FY 2015 Total</u>
Previous President's Budget	75.088	78.208	77.413	-	77.413
Current President's Budget	70.217	78.208	99.106	-	99.106
Total Adjustments	-4.871	-	21.693	-	21.693
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	3.478	-			
• SBIR/STTR Transfer	-2.089	-			
• Program Adjustments	-	-	-5.135	-	-5.135
• Rate/Misc Adjustments	-	-	26.828	-	26.828
• Congressional General Reductions Adjustments	-6.260	-	-	-	-

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<u>Change Summary Explanation</u> The funding increase from FY14 to FY15 supports Gallium Nitride (GaN) Transition and G/ATOR Block 2 software development as part of a Common Hardware Material Solution.		

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014														
Appropriation/Budget Activity 1319 / 7					R-1 Program Element (Number/Name) PE 0204460M / (U)Ground/Air Task Oriented Radar (G/ATOR)				Project (Number/Name) 9C89 / Marine Ground-Air Radar															
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost												
9C89: Marine Ground-Air Radar	-	70.217	78.208	99.106	-	99.106	79.595	82.416	32.849	20.431	Continuing	Continuing												
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-														
MDAP/MAIS Code: 386																								
# The FY 2015 OCO Request will be submitted at a later date. A. Mission Description and Budget Item Justification The Ground/Air Task Oriented Radar (G/ATOR) is a multi-role, ground-based, expeditionary radar that replaces five legacy radar systems for the Marine Air Ground Task Force. It satisfies the Marine Air Command and Control System (G/ATOR Block 1) and the Ground Counter Fire/Counter Battery (G/ATOR Block 2) capabilities. The G/ATOR replaces the AN/TPS-63 and complements the AN/TPS-59 long range radar and will provide mobile, multi-functional, three-dimensional surveillance of air breathing targets, detection of cruise missiles and UAS, and the cueing of air defense weapons. The G/ATOR contributes to the extension of Sea Shield/Sea Strike by surveillance and detection of enemy air threats not seen by Navy sensors in the littorals by participating in a cooperative engagement network of sensors and shooters. G/ATOR enables Integrated Fire Control (IFC) and provides engage/fire on remote capability. G/ATOR surveillance coverage with IFC will provide unprecedented reach, volume, and precision in the execution of Operational Maneuver From The Sea, allowing Naval forces to project and sustain power deep inland. The funding increase from FY14 to FY15 supports Gallium Nitride (GaN) Transition and G/ATOR Block 2 software development as part of a Common Hardware Material Solution. B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>FY 2013</th> <th>FY 2014</th> <th>FY 2015</th> </tr> </thead> <tbody> <tr> <td>Title: G/ATOR Contractor Technical, Development Engineering</td> <td align="right">46.738</td> <td align="right">59.874</td> <td align="right">40.686</td> </tr> <tr> <td align="right">Articles:</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> </tr> </tbody> </table> FY 2013 Accomplishments: Provided hardware and software updates in support of government directed changes as a result of DT1B and OA testing, assisted in the development of program documentation in support of Milestone C (MS C), continued to assist the government in development of LRIP configuration in support of Transition to Production, and plan Producibility Enhancements in support of GaN Transition. FY 2014 Plans: Begin Technology Protection implementation, Transition to Production, begin Producibility Enhancements in support of GaN Transition, conclude Developmental Test/Operational Assessment (DT/OA). Begin plan to develop G/ATOR Block 2, continue Systems Engineering Program Management (SEPM) for G/ATOR during LRIP. FY 2015 Plans:														FY 2013	FY 2014	FY 2015	Title: G/ATOR Contractor Technical, Development Engineering	46.738	59.874	40.686	Articles:	-	-	-
	FY 2013	FY 2014	FY 2015																					
Title: G/ATOR Contractor Technical, Development Engineering	46.738	59.874	40.686																					
Articles:	-	-	-																					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
Continue Technology Protection implementation, Transition to Production, continue Producibility Enhancements in support of GaN Transition.				
Title: G/ATOR Contractor Technical, Development Engineering/Block 2 FY 2013 Accomplishments: N/A FY 2014 Plans: N/A FY 2015 Plans: Support development of and Systems Engineering Program Management (SEPM) for G/ATOR Block 2 software.		Articles: - -	- -	37.589 -
Title: G/ATOR: Test and Evaluation FY 2013 Accomplishments: Performed G/ATOR Developmental Test (DT1B), Field User Evaluation (FUE) and Operational Assessment (OA). FY 2014 Plans: Conclude G/ATOR development Test (DT1B) and Operational Assessment (OA). Participate in WTI, C2 FOS and Black Dart events. FY 2015 Plans: Plan for G/ATOR Developmental Test (DT1C), Operational Assessment (OA) and C2 FOS. Participate in WTI and Black Dart events.		Articles: 11.714 -	2.837 -	4.550 -
Title: Government Technical Support FY 2013 Accomplishments: Government support provided from the following activities enabled program execution; MITRE, NSWC Dahlgren, NSWC Crane, NSWC Pt Hueneme. FY 2014 Plans: Government support from the following activities to enable program execution; MITRE, NSWC Dahlgren, NSWC Crane, NSWC Pt Hueneme, Air Traffic Control Radar Beacon System Identification Friend or Foe, Mark XII/XIIA System (AIMS) Program Office. FY 2015 Plans:		Articles: 10.440 -	12.081 -	12.946 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2013	FY 2014	FY 2015
Government support from the following activities will enable program execution; MITRE, NSWC Dahlgren, NSWC Crane, NSWC Pt Hueneme, Air Traffic Control Radar Beacon System Identification Friend or Foe, Mark XII/XIIA System (AIMS) Program Office.												
Title: G/ATOR: Program Office Management & Travel Costs										0.300	0.300	0.300
Articles:										-	-	-
FY 2013 Accomplishments: Continued Program Office Management and travel in support of system development and test.												
FY 2014 Plans: Continue Program Office Management and travel in support of system development and test.												
FY 2015 Plans: Will continue Program Office Management and travel in support of system development and test.												
Title: G/ATOR: Engineering, Management, & Logistics Support										1.025	3.116	3.035
Articles:										-	-	-
FY 2013 Accomplishments: Continued engineering, management & logistics program office support.												
FY 2014 Plans: Continue engineering, management & logistics program office support. Support includes MS-C documentation and support for Operational Assessment documentation.												
FY 2015 Plans: Will continue engineering, management & logistics program office support.												
Accomplishments/Planned Programs Subtotals										70.217	78.208	99.106
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
• PMC/4650: GRND/AIR TASK ORIENTED RADAR	89.428	87.215	-	-	-	-	-	-	-	-	180.889	
• RDTE/0604504N: AIR CONTROL MATCALS	-	2.990	1.200	-	1.200	-	-	-	-	-	4.190	
• PMC/7000: INITIAL SPARES	-	7.500	2.598	-	2.598	4.599	13.406	18.619	13.237	Continuing	Continuing	

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C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• PMC/4655: GRND/AIR TASK ORIENTED RADAR	-	-	89.230	-	89.230	102.952	139.743	162.958	203.053	824.920	1,522.856
Remarks											
D. Acquisition Strategy											
The Ground/Air Task Oriented Radar (G/ATOR) is a multi-role, ground-based, expeditionary radar that replaces five legacy radar systems and provides the USMC Air Defense and Air Surveillance (AD/AS)(G/ATOR Block 1), Counterfire/Targeting (G/ATOR Block 2), and Air Traffic Control (G/ATOR Block 4) capability. The AD/AS (GB1) development effort was competitively awarded in 2007 and completed Milestone C in FY14. Development of the Counterfire/Targeting (GB2) capability was initiated in FY10 with a RFI to industry, followed by a Business Case Analysis (BCA) to select the most cost effective procurement strategy. The results of the BCA indicated that a sole source contract to NGSC was the most cost effective solution. Thus, development award is planned for the 3rd Qtr FY15. In FY13, a BCA was performed to determine the optimum strategy for development of the Air Traffic Control (GB4) mission with a potential development contract to be awarded in FY16. Funding in FY14 and FY15 supports systems engineering activities prior to contract award, including integration studies with ATNAVICS, the Navy provided Air Traffic Control C2 systems.											
E. Performance Metrics											
N/A											

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PE 0204460M: (U)Ground/Air Task Oriented Radar (G/ATOR)
Navy

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R-1 Program Element (Number/Name)
PE 0204460M I (U)Ground/Air Task
Oriented Radar (G/ATOR)

Project (Number/Name)	9C89 / Marine Ground-Air Radar
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