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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 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 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	70.217	74.432	99.082	80.129	-	80.129	84.424	36.109	10.192	6.254	Continuing	Continuing
9C89: Marine Ground-Air Radar	70.217	74.432	99.082	80.129	-	80.129	84.424	36.109	10.192	6.254	Continuing	Continuing
Program MDAP/MAIS Code: Project MDAP/MAIS Code(s): 386												
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.												
B. Program Change Summary (\$ in Millions)				FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total				
Previous President's Budget				78.208	99.106	79.595	-	79.595				
Current President's Budget				74.432	99.082	80.129	-	80.129				
Total Adjustments				-3.776	-0.024	0.534	-	0.534				
• Congressional General Reductions				-	-0.024							
• Congressional Directed Reductions				-	-							
• Congressional Rescissions				-	-							
• Congressional Adds				-	-							
• Congressional Directed Transfers				-	-							
• Reprogrammings				-1.252	-							
• SBIR/STTR Transfer				-2.524	-							
• Program Adjustments				-	-	1.100	-	1.100				
• Rate/Misc Adjustments				-	-	-0.566	-	-0.566				
Change Summary Explanation												
RDT&E funding decreases from FY15 to FY16 as G/ATOR Block 1 transitions to procurement and Engineering Development Model (EDM)-1 is refurbished.												

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy										Date: February 2015		
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 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
9C89: Marine Ground-Air Radar	70.217	74.432	99.082	80.129	-	80.129	84.424	36.109	10.192	6.254	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		
Project MDAP/MAIS Code: 386												
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. RDT&E funding decreases (\$18.953) from FY15 to FY16 as G/ATOR Block 1 transitions to procurement and Engineering Development Model (EDM)-1 is refurbished. However, there is an increase in Test & Evaluation costs between FY15 and FY16 in preparation for G/ATOR Block 1 DT1C/OA testing events and the planning and procurement of ammunition necessary to support G/ATOR Block 2 testing for the DT1D/OA test events in FY17/FY18.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title: G/ATOR Contractor Technical, Development Engineering Articles:								57.831	40.686	12.378	-	12.378
								-	-	-	-	-
FY 2014 Accomplishments: -Completed Developmental Test/Operational Assessment (DT/OA). -Initiated Transition to Production and Producibility Enhancements in support of Gallium Nitride (GaN) Transition. -Initiated planning for Technology Protection implementation and planning to develop G/ATOR Block 2. -Continued Reliability Improvements and Systems Engineering Program Management (SEPM) for G/ATOR through LRIP contract award.												
FY 2015 Plans: -Initiate Technology Protection implementation and Refurbishment of Engineering Development Model(EDM)-1. -Continue Reliability Improvements, Transition to Production and Producibility Enhancements in support of GaN Transition.												
FY 2016 Base Plans:												

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)				FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
-Continue Technology Protection implementation, Transition to Production, and Producibility Enhancements in support of GaN Transition. -Complete EDM-1 Refurbishment. FY 2016 OCO Plans: N/A								
Title: G/ATOR Contractor Technical, Development Engineering/Block 2 Articles:				- -	37.565 -	21.771 -	- -	21.771 -
FY 2014 Accomplishments: N/A FY 2015 Plans: Development of and Systems Engineering Program Management (SEPM) for G/ATOR Block 2 software. FY 2016 Base Plans: Continue to support development of and Systems Engineering Program Management (SEPM) for G/ATOR Block 2 software. FY 2016 OCO Plans: N/A								
Title: G/ATOR: Test and Evaluation Articles:				3.762 -	4.550 -	31.909 -	- -	31.909 -
FY 2014 Accomplishments: -Completed G/ATOR development Test (DT1B) and Operational Assessment (OA). -Participated in WTI, C2 FOS and Black Dart events. FY 2015 Plans: -Initiate to plan for G/ATOR Developmental Test (DT1C), Operational Assessment (OA) and C2 FOS. -Participate in WTI and Black Dart events. FY 2016 Base Plans: -Initiate planning for G/ATOR Block 2 (GB 2) Development Test (DT1D) and Operational Assessment (OA). -Continue planning for G/ATOR Block 1 (GB 1) Developmental Test (DT1C), Operational Assessment (OA).								

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
-Participate in C2 FOS and WTI events. Includes procurement of ammunition to support DT1D Test Event.						
FY 2016 OCO Plans: N/A						
Title: Government Technical Support		10.352	12.946	10.850	-	10.850
Articles:		-	-	-	-	-
FY 2014 Accomplishments: Government support from the following activities enabled 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: Continue 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 2016 Base Plans: Continue Government support from the following activities will enable program execution; MITRE, NSWC Dahlgren, NSWC Crane, NSWC Pt Hueneme.						
FY 2016 OCO Plans: N/A						
Title: G/ATOR: Program Office Management & Travel Costs		0.300	0.300	0.300	-	0.300
Articles:		-	-	-	-	-
FY 2014 Accomplishments: Continued Program Office Management and travel in support of system development and test.						
FY 2015 Plans: Continue Program Office Management and travel in support of system development and test.						
FY 2016 Base Plans: Continue Program Office Management and travel in support of G/ATOR Block 2 system development and test.						
FY 2016 OCO Plans:						

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)											
		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total					
N/A											
Title: G/ATOR: Engineering, Management, & Logistics Support		2.187	3.035	2.921	-	2.921					
Articles:		-	-	-	-	-					
FY 2014 Accomplishments: Continued engineering, management & logistics program office support. Support included MS-C documentation and support for Operational Assessment documentation.											
FY 2015 Plans: Continue engineering, management & logistics program office support.											
FY 2016 Base Plans: Continue engineering, management & logistics program office support.											
FY 2016 OCO Plans: N/A											
Accomplishments/Planned Programs Subtotals		74.432	99.082	80.129	-	80.129					
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
• PMC/4650: GRND/AIR TASK ORIENTED RADAR	86.343	-	-	-	-	-	-	-	-	-	180.017
• RDTE/0604504N: AIR CONTROL MATCALS	2.330	4.103	1.412	-	1.412	1.215	1.017	0.638	0.650	-	11.365
• PMC/7000: INITIAL SPARES	7.425	2.598	-	-	-	16.058	20.295	13.081	13.358	8.058	80.873
• PMC/4655: GRND/AIR TASK ORIENTED RADAR	-	89.230	130.661	-	130.661	124.937	125.556	221.656	211.222	694.754	1,598.016
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											

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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 Northrup Grumman Electronic Systems (NGES) was the most cost effective solution. Thus, development award is planned for the 4th Qtr FY15. In FY13, a BCA was performed to determine the optimum strategy for development of the Air Traffic Control (GB4) mission with a developmental contract to be awarded in FY16. Both the AD/AS (GB1) and Air Traffic Control (GB4) capabilities require JROCM mandated Identification Friend or Foe (IFF) enhancements. <u>E. Performance Metrics</u> N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy												Date: February 2015			
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					
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
G/ATOR	C/CPIF	NORTHROP GRUMMAN SYSTEMS CORPORATION : LINTHICUM HEIGHTS, MD	46.738	57.831	Dec 2013	40.686	Dec 2014	12.378	Dec 2015	-		12.378	Continuing	Continuing	Continuing
G/ATOR BLOCK 2 SOFTWARE DEVELOPMENT	C/CPFF	NORTHROP GRUMMAN SYSTEMS CORPORATION : LINTHICUM HEIGHTS, MD	0.000	-		37.565	Aug 2015	21.771	Apr 2016	-		21.771	Continuing	Continuing	Continuing
Subtotal			46.738	57.831		78.251		34.149		-		34.149	-	-	-
Remarks															
Award date reflects the actual obligation date for the first incremental award. The Northrop Grumman Product Development contract is incrementally funded throughout the fiscal year.															
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
G/ATOR	FFRDC	MITRE : BOSTON, MA	0.784	0.916	Nov 2013	1.803	Dec 2014	1.898	Dec 2015	-		1.898	Continuing	Continuing	Continuing
G/ATOR	WR	NSWC-DAHLGREN : DAHLGREN, VA	8.882	8.390	Dec 2013	8.557	Dec 2014	6.803	Dec 2015	-		6.803	Continuing	Continuing	Continuing
G/ATOR	WR	NSWC-CRANE : CRANE, IN	0.199	0.180	Dec 2013	0.404	Dec 2014	0.200	Dec 2015	-		0.200	Continuing	Continuing	Continuing
G/ATOR	C/FP	MCSC : QUANTICO, VA	0.000	0.131	Dec 2013	0.500	Dec 2014	0.540	Dec 2015	-		0.540	Continuing	Continuing	Continuing
G/ATOR	FFRDC	CMU/SEI : PITTSBURGH, PA	0.000	0.520	Aug 2014	0.600	Jun 2015	0.650	Jun 2016	-		0.650	Continuing	Continuing	Continuing

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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
G/ATOR	WR	NSWC PHD : DAM NECK, VA	0.575	0.215	Dec 2013	0.721	Dec 2014	0.759	Dec 2015	-		0.759	Continuing	Continuing	Continuing
G/ATOR	C/CPFF	AIMS : ROBINS AFB, GA	0.000	-		0.361	Dec 2014	-		-		-	Continuing	Continuing	Continuing
Subtotal			10.440	10.352		12.946		10.850		-		10.850	-	-	-
Remarks Award dates reflect the actual obligation date for the first incremental award. Each activity, with the exception of MITRE and CMU/SEI is incrementally funded throughout the fiscal year.															
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
G/ATOR	C/CPIF	NORTHROP GRUMMAN SYSTEMS CORPORATION : LINTHICUM HEIGHTS, MD	0.040	-		0.019	Dec 2014	3.461	Dec 2015	-		3.461	Continuing	Continuing	Continuing
G/ATOR	WR	NSWC DAHLGREN : DAHLGREN, VA	0.397	-		0.043	Dec 2014	1.778	Dec 2015	-		1.778	Continuing	Continuing	Continuing
G/ATOR	MIPR	AMRDEC : REDSTONE ARSENAL, AL	2.169	0.917	Dec 2013	1.078	Dec 2014	1.322	Dec 2015	-		1.322	Continuing	Continuing	Continuing
G/ATOR	MIPR	JTIC : FT HUACHUCA, AZ	0.098	-		0.100	Dec 2014	0.100	Dec 2015	-		0.100	Continuing	Continuing	Continuing
G/ATOR	Various	NSWC- FALLBROOK : CRANE, IN	1.092	0.893	Dec 2013	0.984	Dec 2014	0.900	Dec 2015	-		0.900	Continuing	Continuing	Continuing
G/ATOR	C/CPIF	MCOTEA : QUANTICO, VA	1.159	0.331	Dec 2013	0.207	Dec 2014	1.397	Dec 2015	-		1.397	Continuing	Continuing	Continuing

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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
G/ATOR	Various	NSWC CORONA : CORONA, CA	1.420	-		-		0.160	Dec 2015	-		0.160	Continuing	Continuing	Continuing
G/ATOR	Various	NSWC PHD : DAM NECK, VA	1.536	1.507	Dec 2013	1.399	Dec 2014	1.400	Dec 2015	-		1.400	Continuing	Continuing	Continuing
G/ATOR	C/CPFF	MCSC : QUANTICO, VA	1.033	-		0.134	Dec 2014	14.472	Dec 2015	-		14.472	Continuing	Continuing	Continuing
G/ATOR	Various	3D MAW : CAMP PENDLETON, CA	0.961	-		0.203	Dec 2014	2.313	Dec 2015	-		2.313	Continuing	Continuing	Continuing
G/ATOR	Various	MACS-1 : YUMA, AZ	0.605	-		0.163	Dec 2014	1.670	Dec 2015	-		1.670	Continuing	Continuing	Continuing
G/ATOR	Various	MCTSSA : CAMP PENDLETON, CA	0.107	-		0.070	Dec 2014	0.786	Dec 2015	-		0.786	Continuing	Continuing	Continuing
G/ATOR	Various	3D LAAD : CAMP PENDLETON, CA	0.145	-		-		0.781	Dec 2015	-		0.781	Continuing	Continuing	Continuing
G/ATOR	MIPR	ATC : ABERDEEN, MD	0.000	0.114	Dec 2013	0.150	Dec 2014	0.150	Dec 2015	-		0.150	Continuing	Continuing	Continuing
G/ATOR	Various	10th or 12th MARINES : OAK FIELD, NC	0.000	-		-		1.219	Dec 2015	-		1.219	Continuing	Continuing	Continuing
G/ATOR Prior Years Cumulative Funding	Various	N/A : N/A	0.952	-		-		-		-		-	-	0.952	-
Subtotal			11.714	3.762		4.550		31.909		-		31.909	-	-	-
Remarks															
Award dates reflect the actual obligation date for the first incremental award. Each activity is incrementally funded throughout the fiscal year.															
Management Services (\$ 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
G/ATOR	C/FP	MCSC : MCSC - QUANTICO, VA	1.025	2.187	May 2014	3.035	May 2015	2.921	May 2016	-		2.921	Continuing	Continuing	Continuing

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Management Services (\$ 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
G/ATOR	Various	MCSC : QUANTICO, VA	0.300	0.300	Sep 2014	0.300	Sep 2015	0.300	Sep 2016	-		0.300	Continuing	Continuing	Continuing
Subtotal			1.325	2.487		3.335		3.221		-		3.221	-	-	-

Remarks
Award dates reflect the actual obligation date for the first incremental award. Each activity is incrementally funded throughout the fiscal year.

	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	70.217	74.432	99.082	80.129	-	80.129	-	-	-

Remarks

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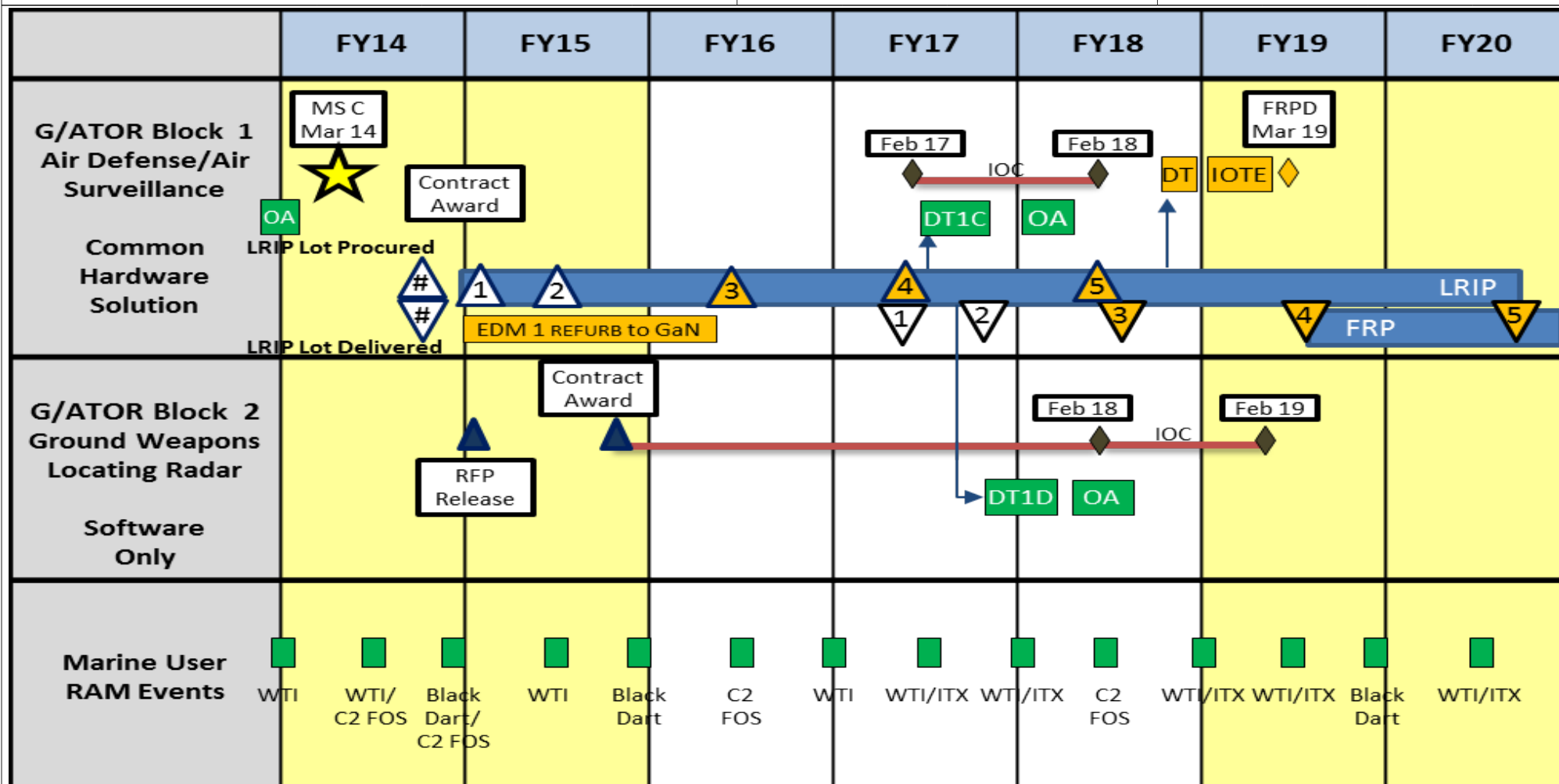
Exhibit R-4, RDT&E Schedule Profile: PB 2016 Navy

Date: February 2015

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



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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy			Date: February 2015
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	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 9C89				
Air Defense/Air Surveillance AD/AS Radar Milestone C	2	2014	2	2014
Air Defense/Air Surveillance AD/AS Radar Low Rate Initial Production (LRIP) Award	1	2015	1	2015
Air Defense/Air Surveillance AD/AS Radar Developmental Test (DT1C)	3	2017	4	2017
Air Defense/Air Surveillance AD/AS Radar Operational Assessment (OA)-2	4	2017	1	2018
Air Defense/Air Surveillance AD/AS Radar IOC	2	2017	2	2018
Air Defense/Air Surveillance AD/AS Radar Developmental Test (DT)	4	2018	4	2018
Air Defense/Air Surveillance AD/AS Radar IOTE	1	2019	1	2019
Air Defense/Air Surveillance AD/AS Radar FRPD	2	2019	2	2019
Air Defense/Air Surveillance AD/AS Radar FRP	3	2019	3	2019
Ground Weapons Locating Radar MDA IPR	4	2014	4	2014
Ground Weapons Locating Radar Development Awards	4	2015	4	2015
Ground Weapons Locating Radar Developmental Test (DT)	4	2017	1	2018
Ground Weapons Locating Radar Operatonal Assessment (OA)	2	2018	3	2018
Ground Weapons Locating Radar IOC	2	2018	2	2019
Marine User RAM Events Commend Control Family of Systems (C2 FOS)	3	2014	3	2014
Marine User RAM Events Black Dart-1	4	2014	4	2014
Marine User RAM Events Weapons Tactics Instructor (WTI-3)	3	2015	3	2015
Marine User RAM Events Black Dart-2	4	2015	4	2015
Marine User RAM Events Commend Control Family of Systems (C2 FOS-1)	3	2016	3	2016
Marine User RAM Events Weapons Tactics Instructor (WTI-4)	4	2016	4	2016