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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 / BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0305149N / Cobra Judy							
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	837.369	14.460	-	-	-	-	-	-	-	-	-	851.829
4021: CJR System Engineering	837.369	14.460	-	-	-	-	-	-	-	-	-	851.829
MDAP/MAIS Code: 365												
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
Cobra Judy Replacement funds will replace the current U.S. Naval Ship (USNS) Observation Island which has become unsustainable and due to leave service in 2014. This program funds the development of a single ship-based radar suite for ballistic missile treaty verification. Cobra Judy provides monitoring and verification of specific aspects of United States treaties with other countries. It is necessary to replace the current Cobra Judy to prevent any potential gap in coverage. Prior studies have indicated that a ship-based radar replacement is the most timely and cost effective solution. This program is joint-funded.												
B. Program Change Summary (\$ in Millions)				FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total				
Previous President's Budget				17.091	-	-	-	-				
Current President's Budget				14.460	-	-	-	-				
Total Adjustments				-2.631	-	-	-	-				
• Congressional General Reductions				-	-							
• Congressional Directed Reductions				-	-							
• Congressional Rescissions				-	-							
• Congressional Adds				-	-							
• Congressional Directed Transfers				-	-							
• Reprogrammings				-1.150	-							
• SBIR/STTR Transfer				-	-							
• Rate/Misc Adjustments				-0.001	-	-	-	-				
• Congressional General Reductions				-1.480	-	-	-	-				
Adjustments												
Change Summary Explanation												
Schedule:												
- ME Ship Integration moved from 4th Qtr FY11 to 2nd Qtr FY 13												
- Ship Delivery moved from 3rd Qtr FY11 to 2nd Qtr FY12												
- Tech Eval moved from 1st Qtr FY13 to 2nd Qtr FY13												
- FY 2013 reductions reflect Congressionally mandated sequestration and general reductions.												

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PE 0305149N: *Cobra Judy*
Navy

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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 0305149N / Cobra Judy				Project (Number/Name) 4021 / CJR System Engineering			
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
4021: CJR System Engineering	837.369	14.460	-	-	-	-	-	-	-	-	-	851.829
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
Cobra Judy Replacement funds will replace the current U.S. Naval Ship (USNS) Observation Island which has become unsustainable and due to leave service in 2014. This program will fund the development of a single ship-based radar suite for ballistic missile treaty verification. Cobra Judy provides monitoring and verification of specific aspects of United States treaties with other countries. It is necessary to replace the current Cobra Judy to prevent any potential gap in coverage. Prior studies have indicated that a ship-based radar replacement is the most timely and cost effective solution. This program is joint-funded.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: SYSTEMS ENGINEERING Articles: FY 2013 Accomplishments: - Integration of non-prime mission equipment FY 2014 Plans: N/A FY 2015 Plans: N/A									3.684	-	-	
									-	-	-	
Title: TEST AND EVALUATION Articles: FY 2013 Accomplishments: - Radar & ship integration and test - Ship crew contracts after ship delivery FY 2014 Plans: N/A FY 2015 Plans: N/A									10.776	-	-	
									-	-	-	
Accomplishments/Planned Programs Subtotals									14.460	-	-	

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

<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• 0303901N/4003: <i>Cobra Judy Replacement</i>	14.586	-	-	-	-	-	-	-	-	-	142.300

Remarks

D. Acquisition Strategy

The acquisition strategy calls for leveraging ongoing Navy Ballistic Missile Defense (BMD) radar development, updating existing user interface/communications/data handling equipment designs from a similar operational unit and purchasing and integrating the mission equipment aboard an appropriate merchant-class hull. System design will be accomplished using in-hand technologies and commercial standards to lower schedule risk and produce a product with the lowest possible life-cycle cost.

E. Performance Metrics

- Successfully complete Design Reviews & MDA-Level Reviews
- Successfully complete Initial Operational Capability (IOC)
- Successfully complete X-Band Development
- Successfully complete S-Band Radar Development
- Successfully complete Mission Equipment String Integration
- Successfully complete ME Ship Integration
- Successfully complete Mission Communications Suite Lightoff
- Ship Delivery
- Successfully complete TECHEVAL/Post Delivery Test & Trails
- Successfully complete Operational Test & Readiness Review (OTRR)
- Successfully complete IOT&E Initial Operational Test OPEVAL