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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2014 Air Force **DATE:** April 2013

<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0105921F: <i>Service Support to STRATCOM - Space Activities</i>
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COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	2.799	-	2.799	3.173	2.573	3.273	2.747	Continuing	Continuing
643833: <i>Joint NavWar Center</i>	-	0.000	0.000	2.799	-	2.799	3.173	2.573	3.273	2.747	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		

**MDAP/MAIS Code(s):** 447

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**Note**

**A. Mission Description and Budget Item Justification**

The Joint Navigation Warfare Center (JNWC) was established per DepSecDef Memorandum titled, "Navigation Warfare (NAVWAR) Implementation Guidance", dated 17 November 2004. The memorandum directed CDR/USSTRATCOM to "Establish a joint center for NAVWAR that leverages on the expertise and infrastructure of the Joint GPS Combat Effectiveness Joint Test & Evaluation program as part of the foundation to better integrate and coordinate NAVWAR Capabilities across the Department." JNWC's core RDT&E mission is to conduct Positioning Navigation Timing (PNT) Operational Field Assessments (POFA) to provide the essential discovery and basic knowledge building blocks for all other JNWC missions. POFAs use Combatant Command assets employed against representative threats of specific OPLANs, CONPLANs and Defense Planning Scenarios to determine the impact of and/or mitigation measures required to operate in an Anti-Access/Area-Denial (A2/AD) Contested PNT Environment. JNWC leverages the \$3M/year POFAs to develop national-level NAVWAR guidance, develop joint Tactics Techniques and Procedures (TTPs), non-material solutions and to upgrade capabilities. The intent of POFAs is to provide timely information for near-term TTP development and realistic training in degraded space support environments. POFAs directly benefit and enhance US and coalition capabilities to operate in A2/AD contested PNT environments as those expected in the Air Sea Battle Concept.

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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	2.799	-	2.799
Total Adjustments	0.000	0.000	2.799	-	2.799
• Congressional General Reductions	-	0.000			
• Congressional Directed Reductions	-	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	-	0.000			
• Congressional Directed Transfers	-	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	2.799	-	2.799

**Change Summary Explanation**

FY14: +\$2.799M for Joint Navwar Center (JNWC) development test and evaluation support.

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>
<b>Title:</b> Operational Field Assessment	0.000	0.000	2.799
<b>Description:</b> JNWC leverages the POFAs to develop national-level NAVWAR guidance, develop joint tactics techniques and procedures (TTPs), non-material solutions and to upgrade capabilities. The intent of POFAs is to provide timely information for near-term TTP development and realistic training in degraded space support environments. POFAs directly benefit and enhance US and coalition capabilities to operate in A2/AD contested PNT environments as those expected in the Air Sea Battle Concept.			
<b>FY 2014 Plans:</b> GYPSY Juliet POFA in FY14 will assess operational effects and effectiveness of red and blue force NAVWAR equipment in a live, joint environment; develop, assess and revise Joint NAVWAR TTPs, upgrade NAVWAR Modeling & Simulation tools; provide Combatant Command staffs the expertise to inform planning and operations in a PNT denied area.			
<b>Accomplishments/Planned Programs Subtotals</b>			2.799

<b>D. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• 53: O&M	0.000	8.115	8.816		8.816	8.639	9.442	9.589	9.735	Continuing	Continuing

**Remarks**

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<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0105921F: <i>Service Support to STRATCOM - Space Activities</i>
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**E. Acquisition Strategy**

No expected new projects to be funded in this program. Any new projects will be awarded using competitive procedures to the maximum extent possible.

**F. Performance Metrics**

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.








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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT							
3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)				PE 0105921F: Service Support to STRATCOM - Space Activities				643833: Joint NavWar Center							
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
Operational Assessment Event Planning	MIPR	Joint Navigation Warfare Center: Kirtland AFB, NM:Albuquerque, NM	-	0.000		0.000		0.650	Oct 2013	-		0.650	Continuing	Continuing	TBD
<b>Subtotal</b>			0.000	0.000		0.000		0.650		0.000		0.650			
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
Operational Assessment Range Support	MIPR	Joint Navigation Warfare Center: Kirtland AFB, NM:Albuquerque, NM	-	0.000		0.000		1.000	Oct 2013	-		1.000	Continuing	Continuing	TBD
Additional Operational Assessment Support	MIPR	Joint Navigation Warfare Center: Kirtland AFB, NM:Albuquerque, NM	-	0.000		0.000		0.299	Oct 2013	-		0.299	Continuing	Continuing	TBD
<b>Subtotal</b>			0.000	0.000		0.000		1.299		0.000		1.299			
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
Operational Assessment Execution	MIPR	Joint Navigation Warfare Center: Kirtland AFB, NM:Albuquerque, NM	-	0.000		0.000		0.850	Oct 2013	-		0.850	Continuing	Continuing	TBD
<b>Subtotal</b>			0.000	0.000		0.000		0.850		0.000		0.850			



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2014 Air Force</b>		<b>DATE:</b> April 2013
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0105921F: <i>Service Support to STRATCOM - Space Activities</i>	<b>PROJECT</b> 643833: <i>Joint NavWar Center</i>

	FY12	FY13	FY14	FY15	FY16	FY17	FY18
Positioning, Navigation, Timing Operational Field Assessments (POFA)			GYPSY Juliet 	  Fortune Fortune POFA POFA	GYPSY POFA 	  Fortune Fortune POFA POFA	GYPSY POFA 

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2014 Air Force		<b>DATE:</b> April 2013
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0105921F: <i>Service Support to STRATCOM - Space Activities</i>	<b>PROJECT</b> 643833: <i>Joint NavWar Center</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Gypsy Juliet	3	2014	4	2014