Exhibit R-2, RDT&E Budget Iter	n Justificat	ion: PB 20	14 Air Force	9						DATE: Apr	ril 2013	
<b>APPROPRIATION/BUDGET AC</b> 3600: Research, Development, T BA 4: Advanced Component Dev	est & Evalua					NOMENCL		STRATCO	M - Space /	Activities		
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: Joint NavWar Center	-	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					,				1			,

<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.

Exhibit R-2, RDT&E Budget Item	Justification:	PB 2014 Air	Force						DATE: A	April 2013	
APPROPRIATION/BUDGET ACTI					TEM NOMEN						
3600: Research, Development, Tes BA 4: Advanced Component Devel			&P)	PE (	105921F: Sei	rvice Suppor	t to STRATC	COM - Spa	ace Activities		
B. Program Change Summary (\$	•		<u>FY 20</u>	12	Y 2013	FY 2014	Base	FY 201	4 OCO	FY 2014 1	<u>fotal</u>
Previous President's Budge			0.0	00	0.000	(	0.000		-	0	.000
Current President's Budget			0.0		0.000		2.799		-		.799
Total Adjustments			0.0		0.000		2.799		-		.799
Congressional Ge	eneral Reduction	ns		-	0.000						
Congressional Di				-	0.000						
Congressional Re			0.0	00	0.000						
Congressional Ad				-	0.000						
Congressional Di		S		-	0.000						
Reprogrammings		-	0.0	00	0.000						
SBIR/STTR Trans	sfer		0.0		0.000						
Other Adjustment			0.0		0.000	2	2.799		-	2	.799
Title: Operational Field Assessme	Navwar Center ( <b>ograms (\$ in M</b> nt	lillions)					echniques a	nd	<b>FY 2012</b> 0.000	<b>FY 2013</b> 0.000	<b>FY 2014</b> 2.79
FY14: +\$2.799M for Joint I C. Accomplishments/Planned Pr Title: Operational Field Assessment Description: JNWC leverages the procedures (TTPs), non-material s near-term TTP development and re US and coalition capabilities to oper FY 2014 Plans: GYPSY Juliet POFA in FY14 will a	Navwar Center ( ograms (\$ in M nt POFAs to deve olutions and to u ealistic training i erate in A2/AD c ssess operation	<b>Iillions)</b> elop national- upgrade cap in degraded contested PN nal effects an	-level NAVW abilities. Th space suppo IT environm	/AR guida e intent o ort enviror ents as th ess of rec	nce, develop POFAs is to ments. POF ose expected and blue forc	joint tactics to provide timel As directly be in the Air Se e NAVWAR	ly informatio enefit and ei a Battle Cor equipment ii	n for nhance ncept. n a live,			
FY14: +\$2.799M for Joint I C. Accomplishments/Planned Pr	Navwar Center ( ograms (\$ in M nt POFAs to deve olutions and to u ealistic training i erate in A2/AD c ssess operation and revise Join	<b>Iillions)</b> elop national- upgrade cap in degraded contested PN nal effects an nt NAVWAR	-level NAVW abilities. Th space suppo IT environm d effectiven TTPs, upgra	/AR guida e intent o ort enviror ents as th ess of rec ade NAVV	nce, develop POFAs is to ments. POF ose expected and blue forc /AR Modeling	joint tactics to provide timel As directly be in the Air Se e NAVWAR & Simulatior	ly informatio enefit and ei a Battle Cor equipment ii	n for nhance ncept. n a live,			<b>FY 2014</b> 2.79
FY14: +\$2.799M for Joint I C. Accomplishments/Planned Pr Title: Operational Field Assessment Description: JNWC leverages the procedures (TTPs), non-material s near-term TTP development and re US and coalition capabilities to oper FY 2014 Plans: GYPSY Juliet POFA in FY14 will a joint environment; develop, assess	Navwar Center ( ograms (\$ in M nt POFAs to deve olutions and to u ealistic training i erate in A2/AD c ssess operation and revise Join	<b>Iillions)</b> elop national- upgrade cap in degraded contested PN nal effects an nt NAVWAR	-level NAVW abilities. Th space suppo IT environm d effectiven TTPs, upgra	/AR guida e intent o ort enviror ents as th ess of red ade NAVV as in a PN	nce, develop POFAs is to ments. POF ose expected and blue forc /AR Modeling	ioint tactics to provide timel As directly be in the Air Se e NAVWAR & Simulatior	ly information enefit and en a Battle Cor equipment in tools; provi	n for nhance icept. n a live, de			2.79
FY14: +\$2.799M for Joint I C. Accomplishments/Planned Pr Title: Operational Field Assessment Description: JNWC leverages the procedures (TTPs), non-material s near-term TTP development and re US and coalition capabilities to oper FY 2014 Plans: GYPSY Juliet POFA in FY14 will a joint environment; develop, assess Combatant Command staffs the ex-	Navwar Center ( ograms (\$ in M nt POFAs to deve olutions and to u ealistic training i erate in A2/AD o ssess operation and revise Join opertise to inform	<b>Iillions)</b> elop national- upgrade cap in degraded contested PN nal effects an nt NAVWAR n planning a	-level NAVW abilities. Th space suppo IT environm d effectiven TTPs, upgra	/AR guida e intent o ort enviror ents as th ess of red ade NAVV as in a PN	nce, develop POFAs is to ments. POF ose expected and blue forc /AR Modeling T denied area	ioint tactics to provide timel As directly be in the Air Se e NAVWAR & Simulatior	ly information enefit and en a Battle Cor equipment in tools; provi	n for nhance icept. n a live, de	0.000	0.000	
FY14: +\$2.799M for Joint I <u>C. Accomplishments/Planned Pr</u> <i>Title:</i> Operational Field Assessment <i>Description:</i> JNWC leverages the procedures (TTPs), non-material s near-term TTP development and re US and coalition capabilities to oper <i>FY 2014 Plans:</i> GYPSY Juliet POFA in FY14 will a joint environment; develop, assess Combatant Command staffs the ex-	Navwar Center ( ograms (\$ in M nt POFAs to deve olutions and to u ealistic training i erate in A2/AD o ssess operation and revise Join opertise to inform	<b>Iillions)</b> elop national- upgrade cap in degraded contested PN nal effects an nt NAVWAR n planning a	-level NAVW abilities. Th space suppo IT environm d effectiven TTPs, upgra	/AR guida e intent o ort enviror ents as th ess of red ade NAVV as in a PN	nce, develop POFAs is to ments. POF ose expected and blue forc /AR Modeling T denied area omplishment	ioint tactics to provide timel As directly be in the Air Se e NAVWAR & Simulatior	ly information enefit and en a Battle Cor equipment in tools; provi	n for nhance icept. n a live, de	0.000	0.000 0.000 Cost To	2.79
FY14: +\$2.799M for Joint I <u>C. Accomplishments/Planned Pr</u> <i>Title:</i> Operational Field Assessment <i>Description:</i> JNWC leverages the procedures (TTPs), non-material s near-term TTP development and red US and coalition capabilities to operative <i>FY 2014 Plans:</i> GYPSY Juliet POFA in FY14 will a joint environment; develop, assess Combatant Command staffs the ex- <u>D. Other Program Funding Summation</u> <u>Line Item</u>	Navwar Center ( ograms (\$ in M nt POFAs to deve olutions and to u ealistic training i erate in A2/AD c ssess operation and revise Join contribution seats to inform nary (\$ in Millic FY 2012	<b>Iillions)</b> elop national- upgrade cap in degraded s contested PN nal effects an nt NAVWAR m planning a ons) <u>FY 2013</u>	-level NAVM abilities. Th space suppo IT environm d effectiven TTPs, upgra nd operation <u>FY 2014</u> <u>Base</u>	/AR guida e intent o ort enviror ents as th ess of rec ade NAVV as in a PN Acc	nce, develop POFAs is to ments. POF ose expected and blue forc /AR Modeling T denied area omplishments FY 2014 Total	joint tactics to provide time! As directly be in the Air Se e NAVWAR & Simulation • s/Planned P	ly informatio enefit and en a Battle Cor equipment in tools; provi <b>rograms Su</b> <u>FY 2016</u>	n for hance icept. n a live, de ibtotals	0.000 0.000 7 FY 2018	0.000 0.000 <u>Cost To</u> <u>Complete</u>	2.79 2.79 <b>Total Cos</b>
FY14: +\$2.799M for Joint I <u>C. Accomplishments/Planned Pr</u> <i>Title:</i> Operational Field Assessment <i>Description:</i> JNWC leverages the procedures (TTPs), non-material s near-term TTP development and re US and coalition capabilities to operative <i>FY 2014 Plans:</i> GYPSY Juliet POFA in FY14 will a joint environment; develop, assess Combatant Command staffs the ex- <u>D. Other Program Funding Summ</u>	Navwar Center ( ograms (\$ in M nt POFAs to deve olutions and to u ealistic training i erate in A2/AD c ssess operation and revise Join opertise to inform	<b>Iillions)</b> elop national- upgrade cap in degraded contested PN nal effects an nt NAVWAR n planning a	-level NAVM abilities. Th space suppo IT environm d effectiven TTPs, upgra nd operation	/AR guida e intent o ort enviror ents as th ess of rec inde NAVV is in a PN Acc FY 2014	nce, develop POFAs is to ments. POF ose expected and blue forc /AR Modeling T denied area omplishments	joint tactics to provide timel As directly be in the Air Se e NAVWAR & Simulation <b>s/Planned P</b>	ly informatio enefit and en a Battle Cor equipment in tools; provi	n for nhance icept. n a live, de ibtotals	0.000 0.000 7 FY 2018	0.000 0.000 Cost To	2.79 2.79 <b>Total Cos</b>

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	
3600: Research, Development, Test & Evaluation, Air Force	PE 0105921F: Service Support to STRATCOM - Space A	Activities
BA 4: Advanced Component Development & Prototypes (ACD&P)		

#### 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.

Exhibit R-3, RDT&E P	Project C	ost Analysis: PB 2	2014 Air F	orce								DATE	: April 20	13	
<b>APPROPRIATION/BU</b> 3600: <i>Research, Deve</i> BA 4: <i>Advanced Com</i> p	lopment,	Test & Evaluation,		CD&P)		PE 010	: <b>M NOME</b> 5921F: S COM - Sµ	ervice Su	pport to		<b>PROJE</b> 643833	CT : Joint Na	vWar Cer	nter	
Product Developmer	nt (\$ in M	illions)		FY 2	2012	FY 2	2013		2014 Ise	FY 2 O(		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:Albuquergue, NM	-	0.000		0.000		0.650	Oct 2013	-		0.650	Continuing	Continuing	TBE
		Subtotal	0.000	0.000		0.000		0.650		0.000		0.650			
Support (\$ in Million	s)			FY 2	2012	FY 2	2013		2014 ase	FY 2		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	TBE
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	TBE
		Subtotal	0.000	0.000		0.000		1.299		0.000		1.299			
Test and Evaluation	(\$ in Milli	ions)		FY 2	2012	FY 2	2013		2014 Ise	FY 2 O(		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			Oct 2013	-			Continuing		TBE
		Subtotal	0.000	0.000		0.000		0.850		0.000		0.850			

Exhibit R-3, RDT&E	Project Co	ost Analysis: PB 2	2014 Air F	orce								DATE	: April 20	13	
APPROPRIATION/BL 3600: Research, Deve BA 4: Advanced Com	elopment,	Test & Evaluation,		D&P)		PE 010	5921F: S	NCLATU ervice Su bace Activ	pport to		<b>PROJE</b> 643833		tal Cost To Sst Complete	ter	
Management Service	es (\$ in M	illions)		FY 2	2012	FY 2	2013		2014 Ise	FY 2 OC	2014 CO	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		Total Cost	Target Value of Contract
		Subtotal	0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.00
			All Prior Years	FY 2	2012	FY 2	2013		2014 Ise	FY 2 OC		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	0.000	0.000		0.000		2.799		0.000		2.799			

**Remarks** 

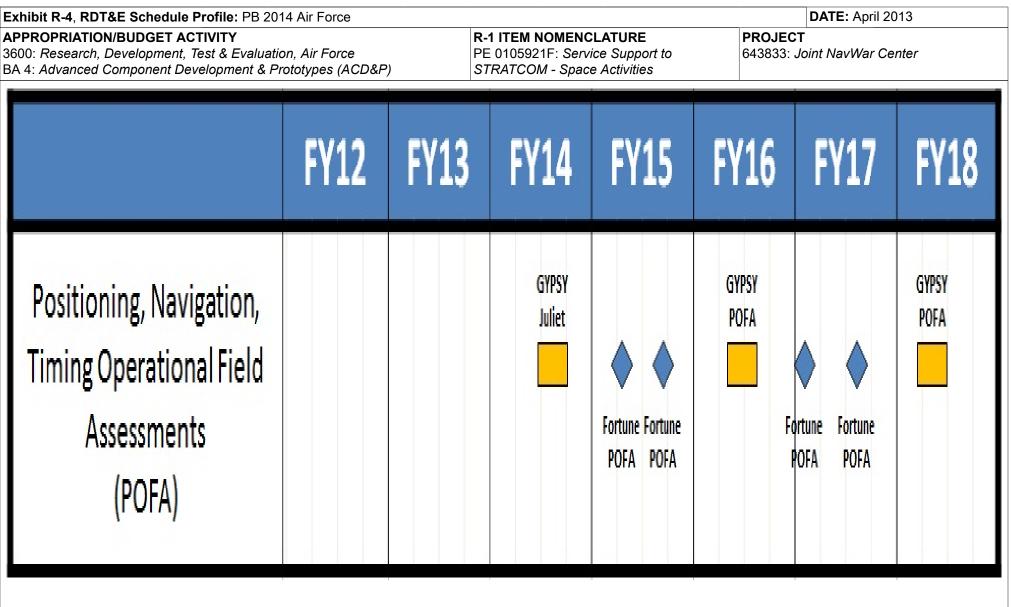


Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force					DATE: April	2013	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force 3A 4: Advanced Component Development & Prototypes (ACD&P)	<b>R-1 ITEM NOMI</b> PE 0105921F: S STRATCOM - S	Service Support to	0	<b>PROJECT</b> 643833: <i>Joi</i>	PROJECT 643833: Joint NavWar Center		
	Schedule Details						
	Γ	Sta	rt		En	d	
Events		Sta Quarter	rt Year	Q	Enc	d Year	