Exhibit R-2, RDT&E Budget Iter	n Justificat	ion: PB 20 ⁻	14 Office of	Secretary (Of Defense					DATE: Apr	il 2013	
APPROPRIATION/BUDGET ACT 0400: Research, Development, Te BA 5: System Development & De	est & Evalua		se-Wide			NOMENCLA S5D8Z: Pror		Strike Capa	bility Develo	opment		
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	475.070	174.077	110.383	65.440	-	65.440	82.590	92.004	209.846	225.248	Continuing	Continuing
P164: Hypersonic Glide Experiment and Concepts Demonstration Support	280.140	61.830	10.000	2.000	-	2.000	4.000	2.000	2.000	2.000	Continuing	Continuing
P166: Alternate Re-Entry System/Warhead Engineering	122.486	91.000	92.000	55.000	-	55.000	70.000	84.000	201.000	217.000	Continuing	Continuing
P167: Test Range Development	50.446	12.000	5.000	5.000	-	5.000	5.000	3.000	3.000	3.000	Continuing	Continuing
P168: OSD CPGS Studies	21.998	9.247	3.383	3.440	-	3.440	3.590	3.004	3.846	3.248	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

The level of resourcing for the Prompt Global Strike Capability Development program reflects iterative reductions from efficiencies and budget reductions, which reduces the Department's ability to develop flexible responsive solutions to emerging war fighter needs. This Program Element (PE) was established to develop and demonstrate technologies and applications that advance conventional prompt global strike (CPGS) warfighting capabilities. The program uses a national team with coordination between the Services, Agencies and national research laboratories to pursue integrated portfolio objectives leading to the acquisition and operation of a CPGS system. This program funds the design, development, and experimentation of boosters, payload delivery vehicles (PDVs), non-nuclear warheads, guidance systems, and mission planning and enabling capabilities. Program timing will be driven by the outcome of flight test events and DoD budgets. To support these development activities, the program procures modeling and simulation capabilities, command and control interfaces, test range support, and launch system infrastructure. Additionally, expert resources address strategic policy and treaty issues. Program emphasis is on demonstrating component and subsystem technology maturity with risk reduction initiatives. In FY 2013 and FY 2014, funding for the individual service initiatives has and will be contingent upon their abilities to execute and achieve satisfactory progress towards project goals as determined by the CPGS portfolio manager.

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of	of Secretary	Of Defense		DAT	E: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: System Development & Demonstration (SDD)		R-1 ITEM NOME PE 0604165D8Z	NCLATURE :: Prompt Global Strike (Capability Developmer	nt
B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	174.830	110.383	138.701	-	138.701
Current President's Budget	174.077	110.383	65.440	-	65.440
Total Adjustments	-0.753	0.000	-73.261	-	-73.261
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-0.753	-			
SBIR/STTR Transfer	-	-			
 Other adjustments 	-	-	-2.261	-	-2.261
 Realignment due to defense priorities 	-	-	-66.000	-	-66.000
 Rephased to out-years 	-	-	-5.000	-	-5.000

Change Summary Explanation

Other Adjustments- Reduction of -\$2.261 is part of the Department of Defense reform agenda, a zero-based review of the organization, to align resources to the most critical priorities and eliminate lower priority functions.

Realignment of -\$66.000 is due to Defense Priorities - Reduction per Department of Defense priorities to focus on Research and Development of intermediate range concepts.

Rephased To Out Years - Funding was reduced in FY14 based on other program requirements and rephased to FY15 and FY16.

Exhibit R-2A, RDT&E Project J	ustification:	PB 2014 C	Office of Sec	retary Of D	efense					DATE: April 2013				
APPROPRIATION/BUDGET AC 0400: Research, Development, T BA 5: System Development & Development	Test & Evalua	PE 060416	NOMENCLA 35D8Z: Pror Developme	npt Global S		de Experime tion Support								
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost		
P164: Hypersonic Glide Experiment and Concepts Demonstration Support	280.140	61.830	10.000	2.000	-	2.000	4.000	2.000	2.000	2.000	Continuing	Continuing		
Quantity of RDT&E Articles														
 [#] FY 2013 Program is from the ^{##} The FY 2014 OCO Request v A. Mission Description and Bu 	will be submit	tted at a lat	er date	tted Februa	ry 2012									
This Program Element (PE) wa warfighting capabilities. The pro- portfolio objectives leading to the delivery vehicles (PDVs), non-ro of flight test events and DoD but	ogram uses a he acquisition huclear warh	a national te n and opera eads, guida	eam with co ation of a CF ance system	ordination b PGS system s, and miss	between the n. This prog sion plannin	e Services, A gram funds t g and enabl	Agencies ar he design, ing capabili	nd national i developme ities. Progra	research lat nt, and expe am timing w	oratories to erimentation ill be driven	o pursue intended of booster by the outer	egrated s, payload come		

interfaces, test range support, and launch system infrastructure. Additionally, expert resources address strategic policy and treaty issues. Program emphasis is on demonstrating component and subsystem technology maturity with risk reduction initiatives. In FY 2013 and FY 2014, funding for the individual service initiatives has and will be contingent upon their abilities to execute and achieve satisfactory progress towards project goals as determined by the CPGS portfolio manager.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Hypersonic Glide Experiments and Concept Demonstration Development/Support	61.830	10.000	2.000
Description: This sub-project develops technologies and applications that could lead to a system with the following characteristics: effects on targets in a very short-period of time from execution order; non-ballistic flight over the majority of the flight path; positive control from launch to impact; adequate cross-range/ maneuverability to avoid overflight issues; controlled stage drop over Broad Ocean Area (BOA), and provides for in-flight target updates. The technologies developed will have cross-service and cross-concept applicability and will be developed through close coordination among DoD components. This activity will support both ground and flight tests, and provide all national data to the competitive acquisition program.			
The objectives of this sub-project are to: - Assess boost-glide technologies in light of ground and flight test events and associated modeling and simulation. -Analyze the military utility of multiple, 3-axis stabilized vehicles performance with respect to thermal protection materials, aerodynamics and control surfaces, navigation, guidance, control (NG&C), boosters and weapons performance. -Assess the feasibility of producing an affordable solution to fill the CPGS capability gap.			

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secreta	ary Of Defense		DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604165D8Z: <i>Prompt Global Strike</i> <i>Capability Development</i>		Hypersonic	Glide Experir tration Suppo	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2013	FY 2014
-Continue systems definition/engineering/development of integrated we order to identify and reduce risks and mature technologies for a global r		s in			
 FY 2012 Accomplishments: Prepared Air Force service inputs and support OSD lead CPGS Mater Restructured program from a weaponized PDV demonstration to a risk Completed the manufacturing and accept delivery of PDV aeroshells f conduct KEP arena and sled tests to characterize weapon performance Collaborated with national CPGS team to plan, develop and perform s and analysis of military utility Conducted system engineering studies to characterize effectiveness of foreign systems and flight paths to optimized vehicles and boosters per Continued to lead national team in risk reduction and technology matu other warhead concepts Conducted post flight test reviews and data analysis, and validate if signaerodynamic, guidance, and control modeling Prepared and conducted the segment and System delta PDR to the A Disseminated post flights and ground tests data/analysis to CPGS nat DARPA HTV program office, Navy SSP, and OSD/SW DWA Manager. Completed Engineering Review Board (ERB) HTV-2 flight 2 anomaly in The remediation efforts will culminate in the Integrated Hypersonics (IH) only available from full-scale flight testing to refine models and data sets generation hypersonic vehicles. Completed planning for IH program. The goal of the IH program is to needed for global-range, maneuverable, hypersonic flight at Mach 20 ar survivable, time-critical transport to conventional prompt global strike. FY 2013 Plans: Conduct trade studies to evaluate system alternatives, affordability, er integrated system complete with system architecture and industrial mar 	k reduction/technology maturation/test campaign pro- for KEP arena and sled tests, complete planning, but subsystems ground and subscale flight tests for eval of updated weapons concepts, vehicles survivability formance irration efforts for CPGS non-nuclear KEP, Penetrato gnificant risk reduction was achieved utilizing update F CSM demonstration. ional community, including the Army AHW program conduct KEP sled tests, complete build and conduct KEP sled test baseline flight test, which will provide critical data to s gained from ground tests needed for the design of develop, mature, and test next- generation technolo and above for missions ranging from space access to ad-to-end system concepts that will study a weapon	ild and uation against or and ed office, ests ation. that is f next- ogies			

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretary O	f Defense		DATE: A	April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: System Development & Demonstration (SDD)	PE 0604165D8Z: Prompt Global Strike	• •	ersonic G	Glide Experim ration Suppol	
B. Accomplishments/Planned Programs (\$ in Millions)			(2012	FY 2013	FY 2014
 Continue risk reduction and technology maturation efforts through ground to and technology readiness to subsystems. Develop Technology Development Strategy and System Engineering docum studies and on-going risk reduction/technology development efforts. Complete KEP sled test analysis and disseminate test data/analysis to CPG Conduct KEP sled test, including fabrication of warhead, surrogate aerosh Conduct post-test analysis and model validation. Implement improvements in highly coupled hypersonic toolsets incorporatin recent CPGS testing activities. Refine hypersonic boost glide knowledge base and designs through enhan aerodynamics, aerothermodynamics, guidance, navigation, and control, instre- Improve high temperature materials base for hypersonic flight and re-entry manufacturing, modeling, and ground based testing. Improve flight test range asset coordination including options for large scale Analyze alternative launch systems for enhanced long range hypersonic flight 	mentation incorporating CPGS community data, the GS community. Thell, knife blade assembly, and sled assembly. The assessed uncertainties of key technologies from ced developmental testing in the areas of rumentation, vehicle recovery, and propulsion. vehicles applications through improved le space based telemetry collection. tight.	ade			
 FY 2014 Plans: Complete enhanced developmental testing in the areas of aerodynamics, a control, instrumentation, vehicle recovery, and propulsion. Conduct planning of flight tests in coordination with other Services to valida developmental testing. Complete trade studies to evaluate system alternatives, affordability, end-to readiness. Continue risk reduction and technology maturation efforts through ground to and technology readiness to subsystems. Complete Technology Development Strategy and System Engineering doc trade studies and on-going risk reduction/technology development efforts. 	te knowledge base garnered from enhanced b-end system concepts and industrial manufacturi ests to improve modeling and simulation capabilit	ies			
	Accomplishments/Planned Programs Subt	otals	61.830	10.000	2.000
C. Other Program Funding Summary (\$ in Millions) N/A Remarks					

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secreta	ry Of Defense	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide 3A 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604165D8Z: <i>Prompt Global Strike</i> <i>Capability Development</i>	PROJECT P164: Hypersonic Glide Experiment and Concepts Demonstration Support
D. Acquisition Strategy N/A		
E. Performance Metrics		
N/A		

Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	2014 Offic	e of Seci	etary Of	Defense						DATE	: April 20	13				
APPROPRIATION/BU 0400: Research, Deve BA 5: System Develop	elopment,	Test & Evaluation,		Wide		PE 0604		NCLATU Prompt: ppment		trike		lypersoni	CT /personic Glide Experiment a s Demonstration Support					
Support (\$ in Million	s)		ſ	FY 2	2012	FY 2	013	FY 2 Ba	2014 se		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	Cost To Complete	Total Cost	Target Value of Contract			
Hypersonic Glide Experiments and Concept Demonstration Development/Support	Allot	SPACE AND MISSILE CENTER:LOS ANGELES, CA	280.140	61.830		10.000		2.000		-		2.000	Continuing	Continuing				
		Subtotal	280.140	61.830		10.000		2.000		0.000		2.000						
			All Prior Years	FY 2	2012	FY 2	013	FY 2 Ba			2014 CO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract			
		Project Cost Totals	280.140	61.830		10.000		2.000		0.000		2.000						

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2	014 Offi	ce of	f Sec	creta	ary O	f De	fens	е													DAT	Γ Ε: /	April	20	13		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evalua BA 5: System Development & Demonstration		fens	e-Wi	de				PE (0604	M NC 4165[ity De	D8Z:	Proi	mpi		bal St	rike		P		Нур					perir uppc		and
		FY	′ 201	2		FY	2013	3		FY 2	014			FY 2	015		F١	201	6		FY	2017	7		FY	2018	
			<u>)</u>	4	1 1	2	2	Λ	4	2	2	Λ	4	2	3 4			2	A	4	2	2	4	4	2	3	4
	1	1 2	2 3	-		2	3			∠	3	-	•	~	3 4		1	2 3	4		2	3	4	1	-	· •	
USAF Kep Sled Test 1	1	1 2	2 3				3	-		2	3	-	1	2	3 4			. J J	4		2	3	4	1	2	•	
USAF Kep Sled Test 1 USAF Kep Sled Test 2	1	2	2 3				3				3	-	1	2	3 4			. 3	4		2	3	4	1			

chibit R-4A, RDT&E Schedule Details: PB 2014 Office of Secretary O	f Defense		DATE	April 2013			
PPROPRIATION/BUDGET ACTIVITY 000: Research, Development, Test & Evaluation, Defense-Wide A 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604165D8Z: <i>Prompt Global</i> <i>Capability Development</i>	Strike	PROJECT P164: Hypersonic Glide Experiment a Concepts Demonstration Support				
	Schedule Details						
	Sta			End			
Events		rrt Year	Quarter	End Year			
Events USAF Kep Sled Test 1	Sta		Quarter				
	Sta	Year	Quarter 1 1	Year			

Exhibit R-2A, RDT&E Project J	ustification:	PB 2014 C	Office of Sec	retary Of D	efense					DATE: April 2013			
APPROPRIATION/BUDGET AC 0400: Research, Development, T BA 5: System Development & De	Test & Evalua		se-Wide		PE 060416	NOMENCLA 35D8Z: Pror Developme	npt Global S	rnate Re-Er g	·				
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
P166: Alternate Re-Entry System/Warhead Engineering	122.486	91.000	92.000	55.000	-	55.000	70.000	84.000	201.000	217.000	Continuing	Continuing	
Quantity of RDT&E Articles													
[#] FY 2013 Program is from the ^{##} The FY 2014 OCO Request v			•	tted Februa	ry 2012	·		·	·	·			

A. Mission Description and Budget Item Justification

This Program Element (PE) was established to develop and demonstrate technologies and applications that advance conventional prompt global strike (CPGS) warfighting capabilities. The program uses a national team with coordination between the Services, Agencies and national research laboratories to pursue integrated portfolio objectives leading to the acquisition and operation of a CPGS system. This program funds the design, development, and experimentation of boosters, payload delivery vehicles (PDVs), non-nuclear warheads, guidance systems, and mission planning and enabling capabilities. Program timing will be driven by the outcome of flight test events and DoD budgets. To support these development activities, the program procures modeling and simulation capabilities, command and control interfaces, test range support, and launch system infrastructure. Additionally, expert resources address strategic policy and treaty issues. Program emphasis is on demonstrating component and subsystem technology maturity with risk reduction initiatives. In FY 2013 and FY 2014, funding for the individual service initiatives has and will be contingent upon their abilities to execute and achieve satisfactory progress towards project goals as determined by the CPGS portfolio manager.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Alternative Re-Entry System/Warhead Engineering and Delivery Vehicle Options/Development	91.000	92.000	55.000
Description: This sub-project will test and evaluate alternative booster and delivery vehicle options and will assess the feasibility of producing an affordable alternate solution to fill the CPGS capability gap. It will mature technologies that could lead to advanced systems with the following characteristics: effects on targets in a very short-period of time from execution order; non-ballistic flight over the majority of the flight path; positive control from launch to impact; adequate cross-range/maneuverability to avoid over flight issues; and controlled stage drop over BOA. The technologies developed will have cross-service and cross-concept applicability and will be developed through close coordination among DoD components. This activity will support both ground and flight tests, and provide all national data to the competitive acquisition program.			
 FY 2012 Accomplishments: Completed Flight Test 1A meeting all Flight Test objectives including first time demonstration of a boost glide hypersonic system at a CPGS relevant range; first successful use of an advanced carbon-carbon thermal protection system for an intermediate range hypersonic flight. Completed mission data reporting and analysis from Advanced Hypersonic Weapon (AHW) Flight Test 1A; documented predicted boost and glide performance, actual performance, range and collection activities, remaining uncertainties, and 			

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secret	tary Of Defense		DATE: /	April 2013			
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604165D8Z: <i>Prompt Global Strike</i> <i>Capability Development</i>	PROJ I P166: <i>Engine</i>	Alternate Re-	ernate Re-Entry System/Warhead ing			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2013	FY 2014		
 application of data to modeling for full range of design capabilities/mission disseminate post Flight Test 1A test data/analysis to CPGS national consistent of the post of the p	ommunity and Defense-Wide Account Manager. (S) materials and glide vehicle configurations; assess selected materials. c inversion autopilot. ect applicability to the intermediate and/or long range	sed					
FY 2013 Plans: - Conduct System Requirements Review for Flight Test 2 and relevance - Conduct Integrated Baseline Review and Integrated Master Schedule - Conduct Preliminary and Critical Design Reviews in preparation for F - Complete design, manufacturing, and testing of components; conduct - Participate in the analysis of FY 2012 ground tests and their application - Initiate work associated with PDV items at risk, in accordance with pro- - Mature Flight Control Systems and electronics to be made available to - Expand systems engineering parameters for performance and cost at - Exercise Command, Control, and Communications processes with pro- parallel simulation of Navy CPGS system using AHW Flight 2 as surrogenetics.	e development for Flight Test 2. light Test 2. t preliminary bench top integration. on to CPGS modeling advancements. evious tests. to all acquisition program competitors. ssessments for all concepts. oven NG&C components to perform hardware-in-the	-loop					
 FY 2014 Plans: Complete manufacturing and testing of Hypersonic Glide Body and B Conduct pre-shipment and pre-launch reviews. Deploy to range, conduct pre-launch testing and training, and execute Begin Flight Test Data analysis and distribution to the CPGS community of advanced thermal prote Expand systems engineering. 	e Flight Test 2. hity for use across projects.						
	Accomplishments/Planned Programs Su	btotals	91.000	92.000	55.00		
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A <u>Remarks</u>							

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secreta	ry Of Defense	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide 3A 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604165D8Z: <i>Prompt Global Strike</i> <i>Capability Development</i>	PROJECT P166: Alternate Re-Entry System/Warhead Engineering
<u>D. Acquisition Strategy</u> N/A		
<u>E. Performance Metrics</u> N/A		

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2014 Offic	e of Seci	retary Of I	Defense						DATE	: April 20	13	
APPROPRIATION/BU 0400: <i>Research, Deve</i> BA 5: <i>System Develop</i>	elopment,	Test & Evaluation,		Wide		PE 0604		NCLATU : Prompt opment		trike	PROJE P166: A Engine	Alternate F	Re-Entry S	System/W	/arhead
Support (\$ in Million	s)		ſ	FY 2	2012	FY 2	013	FY 2 Ba			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	Cost To Complete	Total Cost	Target Value of Contract
Alternative Reentry System/Warhead Engineering and Delivery Vehicle Options/ Development	Allot	SPACE AND MISSILE DEFENSE CENTER/ NAVY STRATEGIC SYSTEMS PROGRAM:HUNTSVI AL/ WASHINGTON DC	122.486 LLE,	91.000		92.000		55.000		-		55.000	Continuing	Continuing	
		Subtotal	122.486	91.000		92.000		55.000		0.000		55.000			
			All Prior Years	FY 2	2012	FY 2	013		2014 Ise		2014 CO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	122.486	91.000		92.000		55.000		0.000		55.000			

Remarks

xhibit R-4, RDT&E Schedule Profile: PB 201	4 Offic	e of	Sec	retar	ry O	f De	fens	e														DAT	Γ Ε: /	٩pril	201	3		
APPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluatio 3A 5: System Development & Demonstration (S	Test & Evaluation, Defense-Wide emonstration (SDD)PE 0604165D8Z: Prompt Global Strike Capability DevelopmentP166: Alternate Re-Entry System/Warl EngineeringFY 2012FY 2013FY 2014FY 2015FY 2016FY 2017FY 2018											Varh																
		FY	201	2		FY	201	3		FY	2014			FY 2	2015			FY	2016	6		FY	2017	7		FY	201	8
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Army AHW Flight Test 1A																												_
All Services Ground Tests																												_
Army AHW Flight Test 2																												
Navy SSP CPS Variant Flight Test 1																												

hibit R-4A, RDT&E Schedule Details: PB 2014 Office of Secretary C	f Defense		DA	ATE: April 2	2013
PROPRIATION/BUDGET ACTIVITY 00: Research, Development, Test & Evaluation, Defense-Wide 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604165D8Z: <i>Prompt Globa</i> <i>Capability Development</i>	nl Strike	PROJECT P166: Alternat Engineering	te Re-Entry	/ System/Warhe
	Schedule Details				
	S	art		End	
Events	S Quarter	art Year	Qua		Year
Events Army AHW Flight Test 1A		1	Qua 1		
		Year	Qua 1 4		Year
Army AHW Flight Test 1A		Year 2012	Qua 1 4		Year 2012

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2014 C	Office of Sec	retary Of D	efense					DATE: Apr	il 2013	
APPROPRIATION/BUDGET ACT 0400: Research, Development, Te BA 5: System Development & Dev		PE 060416	NOMENCLA 35D8Z: Pror Developme	npt Global S	PROJECT P167: Test	T st Range Development						
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
P167: Test Range Development	50.446	12.000	5.000	5.000	-	5.000	5.000	3.000	3.000	3.000	Continuing	Continuing
Quantity of RDT&E Articles												

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

This Program Element (PE) was established to develop and demonstrate technologies and applications that advance conventional prompt global strike (CPGS) warfighting capabilities. The program uses a national team with coordination between the Services, Agencies and national research laboratories to pursue integrated portfolio objectives leading to the acquisition and operation of a CPGS system. This program funds the design, development, and experimentation of boosters, payload delivery vehicles (PDVs), non-nuclear warheads, guidance systems, and mission planning and enabling capabilities. Program timing will be driven by the outcome of flight test events and DoD budgets. To support these development activities, the program procures modeling and simulation capabilities, command and control interfaces, test range support, and launch system infrastructure. Additionally, expert resources address strategic policy and treaty issues. Program emphasis is on demonstrating component and subsystem technology maturity with risk reduction initiatives. In FY 2013 and FY 2014, funding for the individual service initiatives has and will be contingent upon their abilities to execute and achieve satisfactory progress towards project goals as determined by the CPGS portfolio manager.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Test Range Development	12.000	5.000	5.000
Description: This sub-project will complete design, assembly and delivery of power/telemetry subsystems; assemble and integrate components to check command/control and verify range safety functions.			
 FY 2012 Accomplishments: Completed design, assembly and delivery of selected sensors, power/telemetry subsystems; assemble and integrate components to check command/control and verify range safety functions in support of Flight Test 1-A. Performed range assets to support technology demonstrations, including ships and aircraft to receive in-flight telemetry data transmitted by the PDV. 			
<i>FY 2013 Plans:</i> - Improve telemetry collection and infrastructure in prep for DOTE/IOTE testing of contractor developed system concepts. - Assist test range infrastructure for long term use			
FY 2014 Plans: - Improve telemetry collection and infrastructure in prep for DOTE/IOTE testing of contractor developed system concepts. - Assist test range infrastructure for long term use,			

PE 0604165D8Z: *Prompt Global Strike Capability Development* Office of Secretary Of Defense

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secreta	ary Of Defense		DATE: A	April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJ			
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 0604165D8Z: Prompt Global Strike	P167:	Test Range I	Development	
BA 5: System Development & Demonstration (SDD)	Capability Development				
B. Accomplishments/Planned Programs (\$ in Millions)		[FY 2012	FY 2013	FY 2014
-Collaboration with Missile Defense, Ballistic Missile, and Space prograr					
	Accomplishments/Planned Programs Su	btotals	12.000	5.000	5.00
C. Other Program Funding Summary (\$ in Millions)					
N/A					
Remarks					
D. Acquisition Strategy					
N/A					
E. Performance Metrics					
N/A					

Exhibit R-3, RDT&E I	Project C	ost Analysis: PB 2	2014 Offic	e of Seci	retary Of	Defense		DATE	: April 20	13					
APPROPRIATION/BL 0400: Research, Deve BA 5: System Develop	elopment,	Test & Evaluation,		PE 0604		NCLATU Prompt: ppment		trike	PROJE P167: 7	CT Fest Range	e Develop	oment			
Support (\$ in Million	s)		ſ	FY 2	2012	FY 2	013	FY 2 Ba	2014 Ise		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	Cost To Complete	Total Cost	Target Value of Contract
Test Range Development	Allot	SPACE AND MISSILE CENTER:LOS ANGELES, CA	50.446	12.000		5.000		5.000		-		5.000	Continuing	Continuing	
		Subtotal	50.446	12.000		5.000		5.000		0.000		5.000			
			All Prior Years	FY 2	2012	FY 2	013	FY 2 Ba	2014 Ise	FY 2	2014 CO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	50.446	12.000		5.000		5.000		0.000		5.000			

Remarks

Exhibit R-2A, RDT&E Project	Justification:	PB 2014 C	Office of Sec	retary Of D)efense					DATE: Apr	il 2013	
APPROPRIATION/BUDGET A 0400: Research, Development, BA 5: System Development & D		R-1 ITEM PE 060416 <i>Capability</i>	-	T SD CPGS Studies								
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
P168: OSD CPGS Studies	21.998	9.247	3.383	3.440	-	3.440	3.590	3.004	3.846	3.248	Continuing	Continuing
Quantity of RDT&E Articles												

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

This Program Element (PE) was established to develop and demonstrate technologies and applications that advance conventional prompt global strike (CPGS) warfighting capabilities. The program uses a national team with coordination between the Services, Agencies and national research laboratories to pursue integrated portfolio objectives leading to the acquisition and operation of a CPGS system. This program funds the design, development, and experimentation of boosters, payload delivery vehicles (PDVs), non-nuclear warheads, guidance systems, and mission planning and enabling capabilities. Program timing will be driven by the outcome of flight test events and DoD budgets. To support these development activities, the program procures modeling and simulation capabilities, command and control interfaces, test range support, and launch system infrastructure. Additionally, expert resources address strategic policy and treaty issues. Program emphasis is on demonstrating component and subsystem technology maturity with risk reduction initiatives. In FY 2013 and FY 2014, funding for the individual service initiatives has and will be contingent upon their abilities to execute and achieve satisfactory progress towards project goals as determined by the CPGS portfolio manager.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: OSD CPGS Studies	9.247	3.383	3.440
Description: This sub-project supports emergent CPGS study efforts. In addition, it also supports application of the Prompt Global Strike Analysis of Alternatives results, requirements development, CPGS basing alternatives, analysis and defining of mission enabling technologies, and measures to avoid conventional missile launch ambiguity. Finally, it supports administrative activities associated with the management and execution of this PE.			
 FY 2012 Accomplishments: Performed end-to-end modeling & simulation of CPGS concepts (including alternate CONUS and Sea-Based options) and design of acquisition program strategy (and post acquisition activities). Completed the study of strategic policy compliance to include CPGS basing alternatives and measures to avoid misinterpretation of intent; policy compliance, and operational requirements validation. 			
<i>FY 2013 Plans:</i> - Command and control overlay study in parallel with AHW Flight-2 - Conduct CPGS concept assessment of alternative technologies and associated costs - Booster system integration studies			

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secreta	ary Of Defense		DATE:	April 2013		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604165D8Z: <i>Prompt Global Strike</i> <i>Capability Development</i>	PROJECT P168: OSD CPGS Studies				
B. Accomplishments/Planned Programs (\$ in Millions)		ſ	FY 2012	FY 2013	FY 2014	
- Warhead fusing studies - Continue thermal modeling						
FY 2014 Plans: - Booster system integration studies - Warhead fusing studies - Continue thermal modeling						
	Accomplishments/Planned Programs Sul	ototals	9.247	3.383	3.44	
N/A Remarks D. Acquisition Strategy N/A E. Performance Metrics N/A						

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Office of Secretary Of Defense												DATE	DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: System Development & Demonstration (SDD)							R-1 ITEM NOMENCLATURE PE 0604165D8Z: <i>Prompt Global Strike</i> <i>Capability Development</i>					PROJECT P168: OSD CPGS Studies				
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	
OSD CPGS Studies	Allot	OFFICE OF THE SECRETARY OF DEFENSE:WASHING DC	ton ^{21.998}	9.247		3.383		3.440		-		3.440	Continuing	Continuing		
		Subtotal	21.998	9.247		3.383		3.440		0.000		3.440				
		All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract		
		Project Cost Totals	21.998	9.247		3.383		3.440		0.000		3.440				

Remarks