Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Office of Secretary Of Defense										DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 5: *Development & Demonstration (SDD)*				R-1 ITEM NOMENCLATURE PE 0604165D8Z: *Prompt Global Strike*							
COST ($ in Millions)	**FY 2009 Actual**	**FY 2010 Estimate**	**FY 2011 Base Estimate**	**FY 2011 OCO Estimate**	**FY 2011 Total Estimate**	**FY 2012 Estimate**	**FY 2013 Estimate**	**FY 2014 Estimate**	**FY 2015 Estimate**	**Cost To Complete**	**Total Cost**
Total Program Element	69.636	165.563	239.861	0.000	239.861	238.549	274.069	374.600	574.548	Continuing	Continuing
P165: *Prompt Global Strike*	69.636	165.563	239.861	0.000	239.861	238.549	274.069	374.600	574.548	Continuing	Continuing

A. Mission Description and Budget Item Justification

This Program Element (PE) was established in response to guidance associated with the Fiscal Year (FY) 2008 President's Budget, which called for the consolidation and reduction of funding for Conventional Prompt Global Strike (CPGS) efforts for the Navy (Conventional Trident Modification) and Air Force (Common Aero Vehicle) programs. Resources in this PE support the continued development of technologies to continue to enable technology transitions to close the conventional prompt global strike warfighting capability gap. The program uses a national team approach to ensure coordination between the Services, Agencies and National Research Laboratories and places emphasis on the pursuit of integrated portfolio objectives for a national CPGS system. This program funds the design, development and acquisition of guidance systems, boosters, mission planning capabilities, mission enabling capabilities, reentry systems, and payload delivery vehicles (PDVs). It procures modeling and simulation activities, command and control capabilities, test range support, as well as launch system infrastructure. Additionally, funding may be applied towards efforts such as strategic policy compliance and advanced non-nuclear warheads. The emphasis on demonstrating component and subsystem maturity on order to ultimately offer solutions for an existing warfighting capability gap dictates the need for risk reduction initiatives. With the Air Force Conventional Strike Missile (CSM) serving as the lead design to demonstrate a possible materiel solution for the CPGS warfighting capability gap, the Army Hypersonic Glide Body (HGB) design provides an alternative risk reduction path within the Air Force CSM concept. In FY 2011, funding for each of the individual service initiatives 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 2011 Office of Secretary Of Defense	DATE: February 2010
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B. Program Change Summary ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	117.572	166.913	0.000	0.000	0.000
Current President's Budget	69.636	165.563	239.861	0.000	239.861
Total Adjustments	-47.936	-1.350	239.861	0.000	239.861
• Congressional General Reductions		-1.350			
• 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	-2.076	0.000			
• Other Adjustments	-2.860	0.000	239.861	0.000	239.861
• Congressional Distributed Action	-43.000	0.000	0.000	0.000	0.000

Exhibit R-2A, RDT&E Project Justification: PB 2011 Office of Secretary Of Defense			DATE: February 2010
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COST ($ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
P165: *Prompt Global Strike*	69.636	165.563	239.861	0.000	239.861	238.549	274.069	374.600	574.548	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This Program Element (PE) was established in response to guidance associated with the Fiscal Year (FY) 2008 President's Budget, which called for the consolidation and reduction of funding for Conventional Prompt Global Strike (CPGS) efforts for the Navy (Conventional Trident Modification) and Air Force (Common Aero Vehicle) programs. Resources in this PE support the continued development of technologies and enable technology transitions to close the conventional prompt global strike warfighting capability gap. The program uses a national team approach to ensure coordination between the Services, Agencies and National Research Laboratories and places emphasis on the pursuit of integrated portfolio objectives for a national CPGS system. This program funds the design, development and acquisition of guidance systems, boosters, mission planning capabilities, mission enabling capabilities, reentry systems, and payload delivery vehicles (PDVs). It procures modeling and simulation activities, command and control capabilities, test range support, as well as launch system infrastructure. Additionally, funding may be applied towards efforts such as strategic policy compliance and advanced non-nuclear warheads. The emphasis on demonstrating component and subsystem maturity in order to ultimately offer solutions for an existing warfighting capability gap dictates the need for risk reduction initiatives. With the Air Force Conventional Strike Missile (CSM) serving as the lead design to demonstrate a possible materiel solution for the CPGS warfighting capability gap, the Army Hypersonic Glide Body (HGB) design provides an alternative risk reduction path within the Air Force CSM concept. In FY 2011, funding for each of the individual service initiatives 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 Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Hypersonic Glide Experiments and Concept Demonstration Development/Support	41.983	90.110	136.583	0.000	136.583
This sub-project describes efforts to develop technologies and assess capabilities that could potentially enable transformational changes in the arena of global, time critical strike. The objectives of this sub-project are to: - Assess vehicle technologies					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Office of Secretary Of Defense		DATE: February 2010
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B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
- Exercise the ability to use a high-payload capacity system, which may demonstrate responsive, global reach against high value targets - Assess the feasibility of producing an affordable solution to fill the CPGS capability gap It will mature technologies that could lead to a system capable of global reach from Continental United States (CONUS) 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. Specific initiatives within this sub-project include: - Continue systems engineering/development and assembly, integration and test (AI&T) of one weaponized payload delivery vehicle (PDV) - Continue flight test planning and support - Integrated PDV vehicle with Minotaur IV Lite launch vehicle and conduct one operationally relevant land impact flight test demonstration - Perform analysis of the military utility of vehicle performance with respect to thermal protection materials, aerodynamics and control surfaces, navigation, guidance, control, and weapons performance - Integrate HTV-2 vehicles with Minotaur IV Lite Launch Vehicles and conduct two BOA impact flight test demonstrations *FY 2009 Accomplishments:* - Performed systems engineering/development and assembly, integration and test (AI&T) of two HTV-2 demonstration vehicles - Performed flight test planning and support for the planned FY2010 and FY2011 HTV-2 flight test experiments - Developed analysis measures for the FY2010 and FY2011 flight experiments - Performed integration work for the launch of the HTV-2 vehicles on the Minotaur IV Lite launch vehicles					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Office of Secretary Of Defense		DATE: February 2010
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B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
- Performed analysis of the military utility of vehicle performance with respect to thermal protection materials, aerodynamics and control surfaces, as well as navigation, guidance and control (NG&C) and weapons performance - Received approval of acquisition strategy for the planned CSM weaponized PDV flight demonstration - Performed portfolio technical reviews to assess the maturity of the CSM PDV design, warhead survivability and integration efforts, and booster materiel solutions - Successfully conducted six static fire warhead tests used to mature the warhead design and anchor modeling and simulation tools - Completed a System Requirements Review for the planned CSM weaponized PDV flight demonstration - Awarded the initial phase of the PDV development contract covering efforts through Preliminary Design Review *FY 2010 Plans:* FY2010-2011 activities will: conduct the HTV-2 flight experiments; finalize design concept for the CSM Payload Delivery Vehicle to include thermal protection materials, guidance systems, mission planning, and command and control; complete qualification of a Minotaur launch vehicle for a CPGS mission analysis of launch system infrastructure requirements utilizing other ballistic missile propulsion programs, and mature/demonstrate technologies associated the high speed demonstration of conventional munitions. The available resources for this sub-project will be utilized to procure the PDV, warhead and booster to support the planned CSM weaponized flight test. *FY 2011 Base Plans:* FY2010-2011 activities will: conduct the HTV-2 flight experiments; finalize design concept for the CSM Payload Delivery Vehicle to include thermal protection materials, guidance systems, mission planning, and command and control; complete qualification of a Minotaur launch vehicle for a CPGS mission analysis of launch system infrastructure requirements utilizing other ballistic missile propulsion programs, and mature/demonstrate technologies associated the high speed demonstration of					

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B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
conventional munitions. The available resources for this sub-project will be utilized to procure the PDV, warhead and booster to support the planned CSM weaponized flight test.					
Alternative Re-Entry System/Warhead Engineering and Delivery Vehicle Options/Development	13.900	46.907	69.000	0.000	69.000
This sub-project will test and evaluate alternative re-entry systems and delivery vehicle options to include Hypersonic Glide Body (HGB) 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 a system capable of global reach from Continental United States (CONUS) 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; 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. *FY 2009 Accomplishments:* - Performed portfolio technical reviews to assess the maturity of the AHW PDV design, warhead survivability and integration efforts, and booster materiel solutions - Performed initial integration work to support the use of the AHW PDV with the STARS Booster for the FY2011 AHW flight demonstration - Performed analyses of warhead/PDV integration, materials survivability, flight profile and trajectory impact on warhead and PDV design limits and capabilities - Continued Instrumentation and Range Safety Group meetings in support of Flight 1A - Completed a Preliminary Design Review in support to the initial HGB flight demonstration (Flight 1A) *FY 2010 Plans:* The current focus of this sub-project in FY2010-2011 is on the advanced hypersonic weapon effort. This effort researches hypersonic aerodynamics and control systems to enable a wide variety of future capabilities not currently available for rapid global response. The AHW, as a risk mitigation effort in					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Office of Secretary Of Defense		DATE: February 2010
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B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
support of the Air Force CPGS project, develops and demonstrates the capability of an HGB based Alternative Payload Delivery Vehicle (APDV) through a two-flight test schedule. The objectives of this subproject are: - Demonstrate the maturity of technologies related to thermal management, precise navigation and control, and in-flight communications with a hypersonic object. - Demonstrate the successful delivery of an operationally useful payload weight at operational/ intercontinental distances. - Document the applicability of the proven AHW technologies to a family of CPGS concepts and implementations. - Document the design of the AHW HGB to support future acquisition activities as required. - Execute the initial integration and flight demonstration phase (Flight 1A) of the AHW including fabrication, assembly and integration of a single AHW flight vehicle in preparation for a flight test in FY11. The AHW HGB vehicle will be launched from the Pacific Missile Range Facility utilizing a Strategic Targets System (STARS) booster stack, separate from the launch vehicle, and fly a hypersonic glide trajectory to impact on the Reagan Test Site at Kwajalein Atoll, demonstrating flight systems integration, gathering thermal protection system performance data to assist in anchoring analytical models, and demonstrating advanced aerodynamic control features. *FY 2011 Base Plans:* The current focus of this sub-project in FY2010-2011 is on the advanced hypersonic weapon effort. This effort researches hypersonic aerodynamics and control systems to enable a wide variety of future capabilities not currently available for rapid global response. The AHW, as a risk mitigation effort in support of the Air Force CPGS project, develops and demonstrates the capability of an HGB based Alternative Payload Delivery Vehicle (APDV) through a two-flight test schedule. The objectives of this subproject are:					

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B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
- Demonstrate the maturity of technologies related to thermal management, precise navigation and control, and in-flight communications with a hypersonic object. - Demonstrate the successful delivery of an operationally useful payload weight at operational/ intercontinental distances. - Document the applicability of the proven AHW technologies to a family of CPGS concepts and implementations. - Document the design of the AHW HGB to support future acquisition activities as required. - Execute the initial integration and flight demonstration phase (Flight 1A) of the AHW including fabrication, assembly and integration of a single AHW flight vehicle in preparation for a flight test in FY11. The AHW HGB vehicle will be launched from the Pacific Missile Range Facility utilizing a Strategic Targets System (STARS) booster stack, separate from the launch vehicle, and fly a hypersonic glide trajectory to impact on the Reagan Test Site at Kwajalein Atoll, demonstrating flight systems integration, gathering thermal protection system performance data to assist in anchoring analytical models, and demonstrating advanced aerodynamic control features.					
Test Range Development 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 2009 Accomplishments:* - Completed initial requirements definition in support of land based target placement for weaponized PDV flight demonstration - Completed initial requirements definition in support of launch range and pad upgrades for use of Minotaur IV at North Vandenberg launch site	8.590	20.623	24.000	0.000	24.000

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B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: - Perform range modifications in preparation for technology demonstrations. Activities will include the upgrade of the TP01 launch pad which has not been maintained - Build targets to support technology demonstrations - Purchase range assets to support technology demonstrations, which include ships and aircraft to receive in-flight telemetry data transmitted by the PDV (store and burst mode) *FY 2011 Base Plans:* - Perform range modifications in preparation for technology demonstrations. Activities will include the upgrade of the TP01 launch pad which has not been maintained - Build targets to support technology demonstrations - Purchase range assets to support technology demonstrations, which include ships and aircraft to receive in-flight telemetry data transmitted by the PDV (store and burst mode)					
OSD CPGS Studies 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 2009 Accomplishments:* - Continued development of Mission Planning Assessment Tool - Completed PGS Adjunct studies to further refine the capabilities of CSM and AHW - List of range safety constraints and compatibility/impact on weaponized test objectives	5.163	7.923	10.278	0.000	10.278

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B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: 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 2011 Base Plans:* In FY2010-2011 the OSD CPGS studies activity will complete the study of strategic policy compliance to include CPGS basing alternatives and measures to avoid misinterpretation of intent; policy compliance, and operational requirements validation. The activity will conduct studies associated with mission planning systems and battle damage assessment. It will further develop and implement measures of system design performance to evaluate the performance of the primary and alternative PDV design, as well as booster, and basing considerations. This activity will also perform analysis of technology readiness of key aspects of the CPGS designs.					
Accomplishments/Planned Programs Subtotals	69.636	165.563	239.861	0.000	239.861

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

This PE provides resources for technical studies, as well as design, development and test activities; project support; combatant requirements application; and systems design analyses necessary to establish and execute an integrated Conventional Prompt Global Strike program. These efforts will produce: a demonstration and application of advanced technologies to support a combatant command materiel solution requirement; a DoD-wide coordinated assessment of kinetic non-nuclear system and operations concepts in a manner that supports planning, budgeting, and execution of further system concept development and procurement by the Services; resources for technical and operations projects and research, development and test and evaluation in such areas as PGS risk mitigation, strategic policy compliance, mission planning, reentry system thermal protection, advanced propulsion, advanced payload delivery and dispensing mechanisms, weapon system

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command and control, advanced non-nuclear warheads, modeling and simulation, launch system infrastructure, and other enabling capabilities that address emerging mission requirements.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Office of Secretary Of Defense			DATE: February 2010
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Product Development ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	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	41.981	91.124	Sep 2010	136.583	Sep 2011	0.000		136.583	0	269.688	Continuing
Alternative Reentry System/Warhead Engineering and Delivery Vehicle Options/Development	Allot	SPACE AND MISSILE DEFENSE CENTER HUNTSVILLE, AL	13.900	46.569	Sep 2010	69.000	Sep 2011	0.000		69.000	0	129.469	Continuing
Test Range Development	Allot	SPACE AND MISSILE CENTER LOS ANGELES, CA	8.590	20.285	Sep 2010	24.000	Sep 2011	0.000		24.000	0	52.875	Continuing
OSD CPGS Studies	Allot	OFFICE OF THE SECRETARY OF DEFENSE WASHINGTON, DC	5.165	7.585	Sep 2010	10.278	Sep 2011	0.000		10.278	0	23.028	Continuing
		Subtotal	69.636	165.563		239.861		0.000		239.861	0.000	475.060	

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Office of Secretary Of Defense			DATE: February 2010
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	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	69.636	165.563		239.861		0.000		239.861	0.000	475.060	

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Office of Secretary Of Defense			DATE: February 2010
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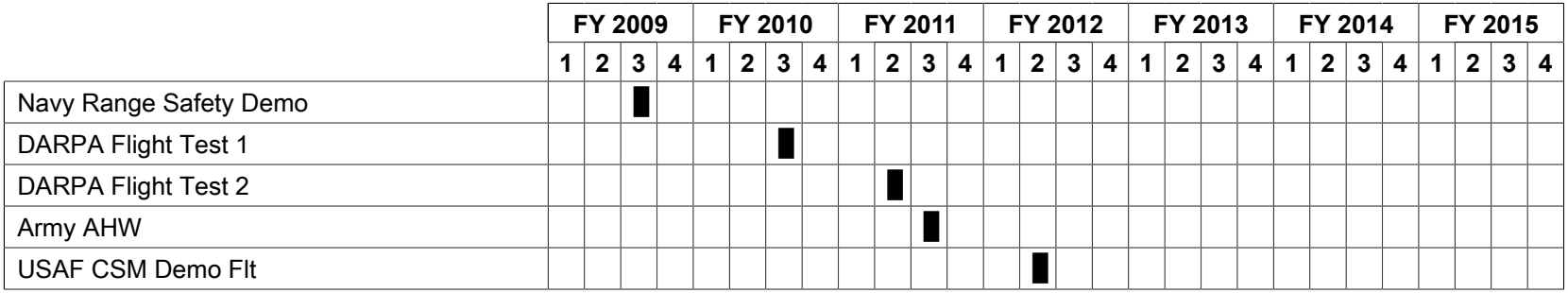

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Office of Secretary Of Defense		DATE: February 2010
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Schedule Details

	Start		End	
Event	**Quarter**	**Year**	**Quarter**	**Year**
Navy Range Safety Demo	3	2009	3	2009
DARPA Flight Test 1	3	2010	3	2010
DARPA Flight Test 2	2	2011	2	2011
Army AHW	3	2011	3	2011
USAF CSM Demo Flt	2	2012	2	2012