

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force **Date:** March 2014

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Missile - Dem/Val</i>							
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	-	63.153	72.696	30.885	-	30.885	18.029	16.327	9.916	9.889	Continuing	Continuing
641020: <i>ICBM Guidance Applications</i>	-	13.221	28.513	0.493	-	0.493	1.285	1.287	0.496	1.945	Continuing	Continuing
641021: <i>ICBM Propulsion Applications</i>	-	39.230	34.810	16.072	-	16.072	6.956	5.239	0.991	1.986	Continuing	Continuing
641022: <i>ICBM Reentry Vehicle Applications</i>	-	-	-	3.951	-	3.951	4.943	4.950	4.463	1.986	Continuing	Continuing
641024: <i>ICBM Command & Control (C2) Applications</i>	-	-	-	2.469	-	2.469	3.362	3.366	2.974	1.986	Continuing	Continuing
641025: <i>Ground Based Strategic Deterrence (GBSD)</i>	-	10.702	9.373	6.913	-	6.913	-	-	-	-	Continuing	Continuing
644209: <i>Long Range Planning (LRP)</i>	-	-	-	0.987	-	0.987	1.483	1.485	0.992	1.986	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This program ensures a responsive design and development engineering infrastructure to address emerging issues and technology insertion within the current Intercontinental Ballistic Missile (ICBM), future strategic systems/capability, and other common strategic mission areas, where appropriate, to develop enhanced multi-use capabilities. Efforts identify methods to reduce life cycle costs, improve nuclear safety and surety, and ensure strategic missile viability. On-going demonstration and validation projects include guidance applications, propulsion applications and Ground Based Strategic Deterrent (GBSD), and FY15 restarts funding for reentry vehicles, development of enhanced command/control capabilities and long range planning efforts.

BA4 - This program is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P) because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force				Date: March 2014	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0603851F I Intercontinental Ballistic Missile - Dem/Val			
B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	71.181	86.737	93.549	-	93.549
Current President's Budget	63.153	72.696	30.885	-	30.885
Total Adjustments	-8.028	-14.041	-62.664	-	-62.664
• Congressional General Reductions	-0.094	-0.070			
• Congressional Directed Reductions	-	-13.971			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.661	-			
• Other Adjustments	-6.273	-	-62.664	-	-62.664
Change Summary Explanation					
FY13 Significant Changes include: \$6.273M for Sequestration and \$1.661M for Small Business Innovative Research (SBIR)					
FY14 Significant Changes include: \$13.971M for Congressional reduction: "Program Decrease"					
FY15 Significant Changes include: \$62.664M reduction for transition to guidance efforts in PE 0101213F, Minuteman Squadrons: MM Operational Equipment and for higher AF priorities					

UNCLASSIFIED

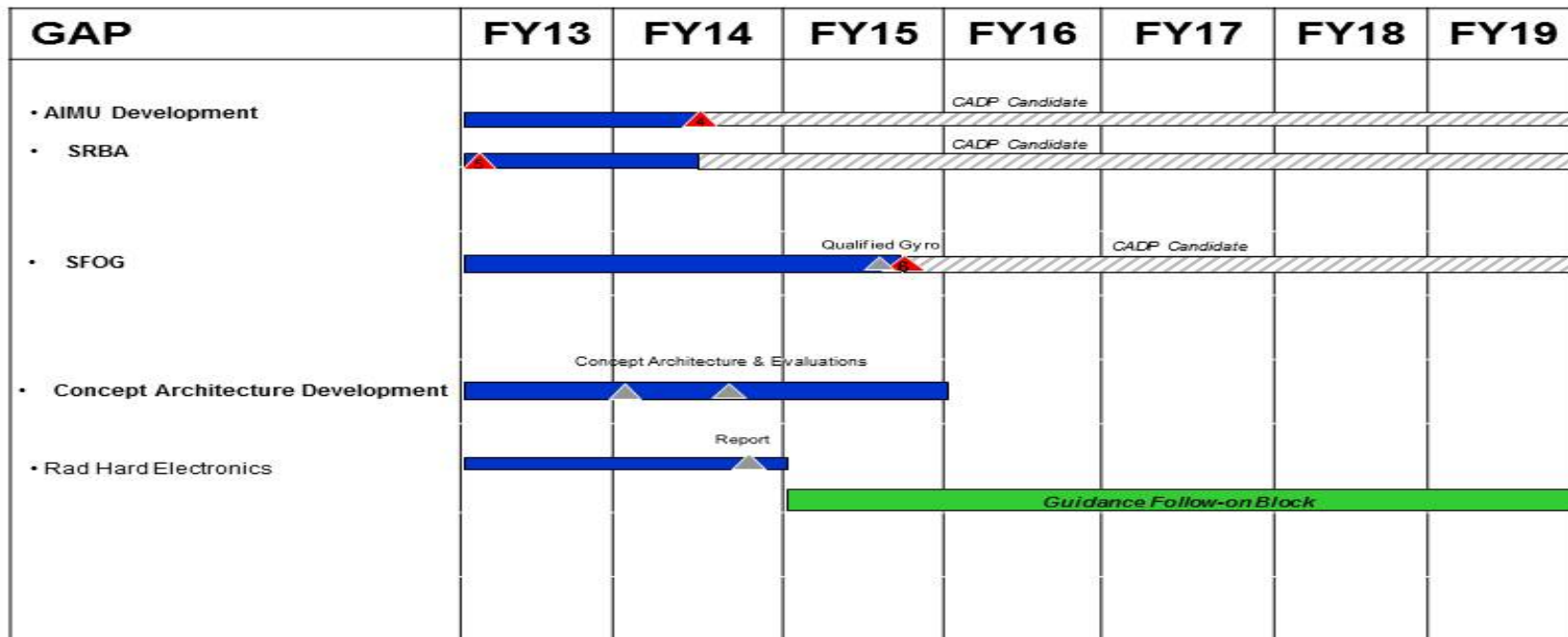
Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force										Date: March 2014		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603851F / Intercontinental Ballistic Missile - Dem/Val				Project (Number/Name) 641020 / ICBM Guidance Applications			
COST (\$ in 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
641020: ICBM Guidance Applications	-	13.221	28.513	0.493	-	0.493	1.285	1.287	0.496	1.945	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
The Guidance Applications Program ensures the development of strategic capability in response to the Nuclear Posture Review, recommendations of the United States Strategic Command (USSTRATCOM) Strategic Advisory Group, USSTRATCOM Commander guidance, and the Defense Science Board Task Force on Nuclear Deterrence. Efforts are focused on current and future requirements and technologies, reduced life cycle costs, and increased nuclear surety and safety. Activities leverage the efforts of the Science and Technology community and are coordinated with the Navy strategic applications program to enhance synergy and avoid duplication. Key elements include developing responsive technologies with common applications for future strategic guidance capabilities.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2013	FY 2014	FY 2015	
Title: Guidance Applications									13.221	28.513	0.493	
Description: Develop and mature, in coordination with the Navy, advanced guidance technologies and concepts to support future requirements.												
FY 2013 Accomplishments: Developed, prototyped and tested advanced guidance technologies, such as solid-state instruments (accelerometers and gyroscopes) and inertial measurement unit (IMU) concepts. Assessed, evaluated and tested radiation hard electronics for strategic guidance applications. Conducted experiments to demonstrate future strategic system concepts.												
FY 2014 Plans: Continue to develop, analyze and evaluate strategic guidance technologies, concepts and architectures for use in current or future ICBM systems.												
FY 2015 Plans: Continue to identify develop, analyze and evaluate advanced strategic guidance technologies for potential use in the current or future ICBM systems.												
Accomplishments/Planned Programs Subtotals									13.221	28.513	0.493	

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force										Date: March 2014		
Appropriation/Budget Activity 3600 / 4				R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Missile - Dem/Val</i>				Project (Number/Name) 641020 / <i>ICBM Guidance Applications</i>				
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>
	• RDT&E: BA07: PE 0101213F: <i>Minuteman Squadrons</i>	-	-	16.359	-	16.359	63.966	107.253	197.764	222.957	-	-
Remarks PE 0101213F, Minuteman Squadrons, funding related to this effort is included in Project Number 672987, MM Operational Equipment												
D. Acquisition Strategy Accomplish studies, analyses, concept development and engineering; efforts will be conducted using contracting strategies deemed most appropriate, generally using competitive contracts.												
E. 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.												

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force			Date: March 2014	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Missile - Dem/Val</i>		Project (Number/Name) 641020 / <i>ICBM Guidance Applications</i>	



UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force										Date: March 2014		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603851F / Intercontinental Ballistic Missile - Dem/Val				Project (Number/Name) 641021 / ICBM Propulsion Applications			
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
641021: ICBM Propulsion Applications	-	39.230	34.810	16.072	-	16.072	6.956	5.239	0.991	1.986	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
The Intercontinental Ballistic Missile (ICBM) Propulsion Applications Program develops strategic propulsion capability through projects exploring improvements and/ or alternatives to current propulsion systems, conducting studies assessing application of new technologies to meet future common propulsion systems requirements, assessing opportunities for applying common materials and technology between the ICBM, submarine-launched ballistic missile (SLBM) propulsion systems, and other rocket motor propulsion capabilities to demonstrate a potential family of motors capability. Efforts are focused on current and future requirements and technologies, reduced life cycle costs, and increased nuclear surety and safety.												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2013	FY 2014	FY 2015
Title: Propulsion Application Program										39.230	34.810	16.072
Description: Assess, develop, evaluate, and demonstrate common solid and liquid propulsion technology and manufacturing leading up to a static fire and test of the medium class stage motors. Develop strategic propulsion capability and explore improvements to current and future systems. Support the research and development industrial base and critical infrastructure.												
FY 2013 Accomplishments: Supported the solid rocket motor (SRM) research and development industrial base and critical infrastructure. Assessed and demonstrated ordnance and post-boost technology development. Completed large class stage (LCS) I & II efforts. Completed transition from LCS to Medium Class Stages (MCS) development, leveraging existing launch vehicle integration efforts. Continued to design and develop MCS III motor. Continued to integrate and analyze medium class motors and technology insertion opportunities.												
FY 2014 Plans: Continue to support the SRM research and development industrial base and critical infrastructure. Continue assessment and demonstration of ordnance and post-boost technology development. Continue MCS III development and prepare for static fire testing. Continue to integrate and analyze medium class motors and technology insertion opportunities. Design and begin qualification of MCS I and MCS II motors and prepare for static fire testing, as necessary.												
FY 2015 Plans:												

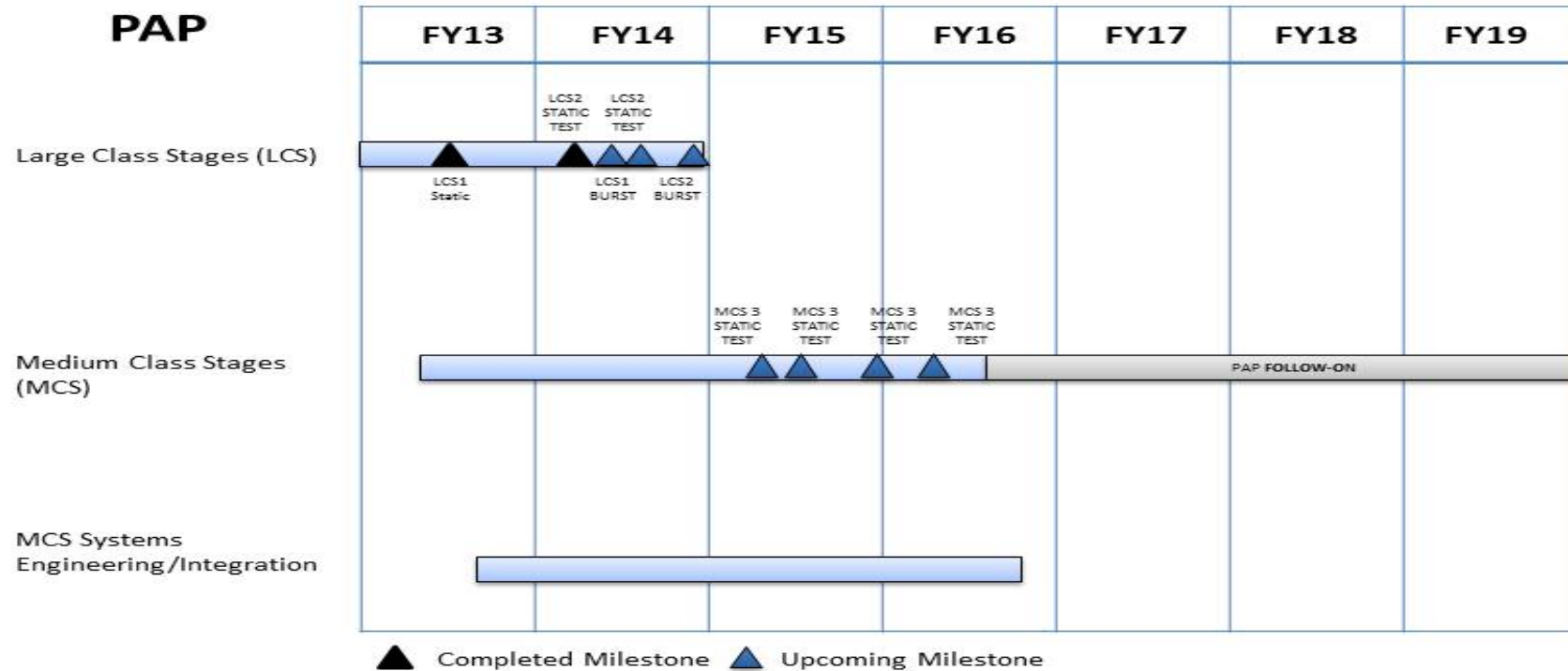
UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force										Date: March 2014		
Appropriation/Budget Activity 3600 / 4				R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Missile - Dem/Val</i>				Project (Number/Name) 641021 / <i>ICBM Propulsion Applications</i>				
B. Accomplishments/Planned Programs (\$ in Millions) Continue to support the SRM research and development industrial base and critical infrastructure. Continue assessment and demonstration of ordnance and post-boost technology development. Continue MCS III development and conduct static fire testing. Continue to integrate and analyze medium class motors and technology insertion opportunities. Continue development and testing of MCS I and MCS II motor designs, as necessary.										FY 2013	FY 2014	FY 2015
Accomplishments/Planned Programs Subtotals										39.230	34.810	16.072
C. Other Program Funding Summary (\$ in Millions)												
Line Item	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	
• RDT&E: BA07: PE 0101213F: <i>Minuteman Squadrons</i>	-	-	16.359	-	16.359	63.966	107.253	197.764	222.957	-	-	
Remarks PE 0101213F, Minuteman Squadrons, funding related to this effort is included in Project Number 672987, MM Operational Equipment												
D. Acquisition Strategy Studies, analyses, limited engineering, hardware development and testing will be accomplished; efforts will be conducted using contracting strategies deemed most appropriate, generally using competitive contracts.												
E. 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.												

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force			Date: March 2014	
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Missile - Dem/Val</i>		Project (Number/Name) 641021 / <i>ICBM Propulsion Applications</i>

PAP



UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force										Date: March 2014		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603851F / Intercontinental Ballistic Missile - Dem/Val				Project (Number/Name) 641022 / ICBM Reentry Vehicle Applications			
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
641022: ICBM Reentry Vehicle Applications	-	-	-	3.951	-	3.951	4.943	4.950	4.463	1.986	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
Note												
In FY15, 641022, ICBM Reentry Vehicle Applications includes new start efforts.												
A. Mission Description and Budget Item Justification												
The Intercontinental Ballistic Missile (ICBM) Reentry Vehicle (RV) Applications Program ensures the ICBM force is equipped with the safest, most reliable Reentry Systems, and explores options for common, multi-mission capabilities. The program enables a responsive engineering infrastructure to support Reentry Systems beyond their original design life by addressing operational system issues and ensuring the availability of long-lead components and materials while identifying life cycle cost reduction methods. In addition, the program develops and tests advanced Reentry System technologies to meet future requirements. The program leverages investments by the Science & Technology community and Navy reentry systems applications program. Products are tested on a space available basis on AF and Navy Force Development Evaluation (FDE) flights.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2013	FY 2014	FY 2015	
Title: ICBM Reentry Vehicle Applications - FY15 New Start									-	-	3.951	
Description: Develop, evaluate, and test reentry system materials and technologies for use in current and future strategic applications.												
FY 2013 Accomplishments: N/A												
FY 2014 Plans: N/A												
FY 2015 Plans: Assess, develop and evaluate Nosetip and Thermal Protection System (TPS) Material Development, Penetration Aid Suites and conduct testing activities.												
Accomplishments/Planned Programs Subtotals									-	-	3.951	

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force			Date: March 2014
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Missile - Dem/Val</i>	Project (Number/Name) 641022 / <i>ICBM Reentry Vehicle Applications</i>	

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

Line Item	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
• None: N/A	-	-	-	-	-	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

Studies, analyses, limited engineering, and pre-prototype hardware development will be accomplished; efforts will be conducted using contracting strategies deemed most appropriate, generally using competitive contracts.

E. 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.

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force			Date: March 2014	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Missile - Dem/Val</i>		Project (Number/Name) 641022 / <i>ICBM Reentry Vehicle Applications</i>	

RVAP	FY13	FY14	FY15	FY16	FY17	FY18	FY19			
Penetration Aid Technology Development			Follow on Pen Aid block							
Mk12A/Mk21 Nosetip Material Development			Survey Industry	Material Development	Concept Development	Material Testing	Data Analysis	Thermal Test	Qual	Report
Heatshield Thermal Protection System (TPS) Material Development			Survey Industry	Material Development	Concept Development	Material Testing	Data Analysis	Thermal Test	Qual	Report

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force										Date: March 2014		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603851F / Intercontinental Ballistic Missile - Dem/Val				Project (Number/Name) 641024 / ICBM Command & Control (C2) Applications			
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
641024: ICBM Command & Control (C2) Applications	-	-	-	2.469	-	2.469	3.362	3.366	2.974	1.986	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
Note In FY15, 641024, ICBM Command & Control (C2) Applications includes new start efforts.												
A. Mission Description and Budget Item Justification The Command and Control (C2) Applications Program supports ICBM weapon system connectivity to the President and National Command Authorities. C2 Applications evaluates and develops assured, survivable, and secure communications and battlespace awareness between the missile Launch Control Centers (LCCs) and Launch Facilities (LFs) essential for mission execution. Efforts include identifying and developing current and future technologies, as well as concepts that exploit state-of-the-art communications and information transfer techniques to both current and future ICBM systems. Products include studies, demonstrations and tests such as ICBM C2 architectures, networks, and systems to meet nuclear command and control requirements.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2013	FY 2014	FY 2015	
Title: Command & Control - FY15 New Start									-	-	2.469	
Description: Examine and develop concepts for transforming ICBM command and control to meet current and future ICBM requirements.												
FY 2013 Accomplishments: N/A												
FY 2014 Plans: N/A												
FY 2015 Plans: Initiate studies to identify, assess, and preserve unique strategic C2 skills and technologies to meet current and future ICBM C2 requirements												
Accomplishments/Planned Programs Subtotals									-	-	2.469	

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force										Date: March 2014	
Appropriation/Budget Activity 3600 / 4				R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Missile - Dem/Val</i>				Project (Number/Name) 641024 / <i>ICBM Command & Control (C2) Applications</i>			
C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2015</u>	<u>FY 2015</u>	<u>FY 2015</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Complete</u>	<u>Total Cost</u>
• None: <i>None</i>	-	-	-	-	-	-	-	-	-	-	-
Remarks											
D. Acquisition Strategy											
Studies and analyses, and limited engineering and pre-prototype hardware development will be accomplished; efforts will be conducted using contracting strategies deemed most appropriate.											
E. 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.											

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force			Date: March 2014	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Missile - Dem/Val</i>		Project (Number/Name) 641024 / <i>ICBM Command & Control (C2) Applications</i>	

C2Apps	FY13	FY14	FY15	FY16	FY17	FY18	FY19	
NC2 Development and evaluation			Feasibility Studies	Capability Development	Hardware/software evals	Dev Test Bed	Report	Additional Feasibility Studies
								

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force										Date: March 2014		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603851F / Intercontinental Ballistic Missile - Dem/Val				Project (Number/Name) 641025 / Ground Based Strategic Deterrence (GBSD)			
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
641025: Ground Based Strategic Deterrence (GBSD)	-	10.702	9.373	6.913	-	6.913	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
The Ground-Based Strategic Deterrence (GBSD) will identify viable concepts and materiel solutions in support of the Air Force's strategic deterrence and global strike capabilities. Funding supports pre-Milestone A activities, to include an Analysis of Alternatives (AoA) and associated concept refinement activities of potential materiel solutions. This effort will explore materiel technology alternatives at the system and sub-system levels and during the Materiel Solution Analysis (MSA) Phase leading to a Milestone-A decision.												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2013	FY 2014	FY 2015
Title: Ground-based Strategic Deterrent (GBSD)										10.702	9.373	6.913
Description: Perform Pre-Milestone A activities to identify potential materiel solutions for a future GBSD.												
FY 2013 Accomplishments: Performed pre-Materiel Solution Analysis Phase activities and initiated a GBSD AoA. Identified and refined viable concepts and materiel solutions for a follow-on strategic deterrent in support of the global strike capabilities.												
FY 2014 Plans: Complete GBSD AoA. Continue concept refinement, technology analyses, modeling and simulation support, engineering studies, program cost and schedule estimation, acquisition strategy development, risk reduction efforts, initial requirements definition, and Milestone A preparation.												
FY 2015 Plans: Continue concept refinement, technology analyses, modeling and simulation support, engineering studies, program cost and schedule estimation, acquisition strategy development, risk reduction efforts, initial requirements definition, Milestone A preparation to include development of Milestone A exit/Technology Development phase entrance documentation.												
Accomplishments/Planned Programs Subtotals										10.702	9.373	6.913
C. Other Program Funding Summary (\$ in Millions)												
N/A												

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force		Date: March 2014
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Missile - Dem/Val</i>	Project (Number/Name) 641025 / <i>Ground Based Strategic Deterrence (GBSD)</i>
C. Other Program Funding Summary (\$ in Millions) Remarks D. Acquisition Strategy During the MSA phase, an AoA will be completed. Multiple contracts may be awarded to refine materiel solution concepts. A technology development strategy will be developed during the MSA phase. E. 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.		

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force

Date: March 2014

Appropriation/Budget Activity

3600 / 4

R-1 Program Element (Number/Name)

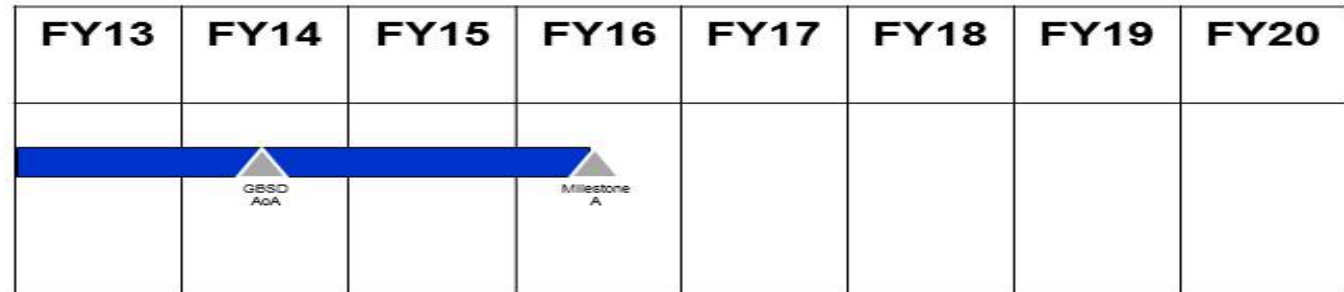
PE 0603851F / *Intercontinental Ballistic Missile - Dem/Val*

Project (Number/Name)

641025 / *Ground Based Strategic Deterrence (GBSD)*

GBSD

- Materiel Solution Analysis Phase
 - Includes GBSD Analysis of Alternative



UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force										Date: March 2014		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603851F / Intercontinental Ballistic Missile - Dem/Val				Project (Number/Name) 644209 / Long Range Planning (LRP)			
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
644209: Long Range Planning (LRP)	-	-	-	0.987	-	0.987	1.483	1.485	0.992	1.986	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
Note In FY15, 644209, Long Range Planning includes new start efforts.												
A. Mission Description and Budget Item Justification Long Range Planning (LRP) effort identifies and analyzes potential modifications to current and future Intercontinental Ballistic Missile (ICBM) Weapon Systems required to meet objectives relative to long term sustainment, technology insertion, battlespace awareness, employment, and force structure. The studies will focus on system supportability, operability, reliability, innovation and maintainability. Options/concepts generated by these studies are evaluated for feasibility, system impacts, and cost. The LRP also lays the groundwork for analysis supporting future weapon systems development and deployment. Pre-milestone activities may be conducted for current or future ICBM weapon systems to include entry criteria for milestone activities. BA4 - This program is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P) because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2013	FY 2014	FY 2015	
Title: Long Range Planning - FY15 New Start									-	-	0.987	
Description: Analyze, study and plan current and future ICBM activities to meet requirements for long term sustainment, technology insertion, employment and force structure.												
FY 2013 Accomplishments: N/A												
FY 2014 Plans: N/A												
FY 2015 Plans: Initiate feasibility and life extension studies. Conduct early phase acquisition activities that are focused on the current ICBM system and development of any future ground based system.												
Accomplishments/Planned Programs Subtotals									-	-	0.987	

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force			Date: March 2014
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Missile - Dem/Val</i>	Project (Number/Name) 644209 / <i>Long Range Planning (LRP)</i>	

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>
• None: N/A	-	-	-	-	-	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

Studies and analyses will be accomplished; efforts will be conducted using contracting strategies deemed most appropriate, generally using competitive contracts.

E. 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.

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force			Date: March 2014
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Missile - Dem/Val</i>	Project (Number/Name) 644209 / <i>Long Range Planning (LRP)</i>	

ILRP

Continue support of the consolidated long range plan

FY13	FY14	FY15	FY16	FY17	FY18	FY19
		ID Capability Gaps Conduct NDO S&T Evaluations	ICBM Masterplan Integration	ICBM Roadmap Integration	ID Capability Gaps Conduct NDO S&T Evaluations	Conduct NDO S&T Evaluations
						