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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0303140F / <i>Information Systems Security Program</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	64.972	46.303	46.388	0.000	46.388	36.477	33.395	36.401	37.049	Continuing	Continuing
674861: <i>EKMS (Electronic Key Management System)</i>	-	0.592	0.633	0.922	0.000	0.922	0.939	0.000	0.000	0.000	0.000	3.086
675100: <i>Cryptographic Modernization</i>	-	55.018	29.068	38.729	0.000	38.729	33.809	30.689	33.649	34.246	Continuing	Continuing
675231: <i>AF Key Management Infrastructure (AF KMI)</i>	-	9.362	16.602	6.737	0.000	6.737	1.729	2.706	2.752	2.803	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Information Systems Security Program (ISSP) Element provides cradle-to-grave research, development, acquisitions, supply, sustainment, depot maintenance, and demilitarization of the Air Force (AF) cryptographic and key distribution/management systems (known as the Key Management Enterprise (KME)). Additionally, ISSP funds the AF operation of its AF KME, one of two Department of Defense (DoD) Tier 1 key distribution centers. The AF and the DoD require the capability to secure, collect, process, store, and disseminate an uninterrupted flow of information, while denying an adversary the ability to intercept, collect, destroy, interpret, or manipulate our information flows. Secure communication allows the DoD to achieve and maintain decision superiority, the key to successful application of the military instrument of national power. AF Communications Security (COMSEC) equipment protects information such as warfighter positions, mission planning, target strikes, commanders' orders, intelligence, force strength, and force readiness and ensures adversaries cannot interpret, manipulate, or destroy information. When an adversary is capable of interpretation, manipulation, or destruction of the information used by the warfighter, DoD military forces will suffer significant and/or devastating mission degradation that can result in loss of life and resources and/or disclose information that could be used against the United States in a public forum.

The overall focus of the Research, Development, Test, and Evaluation (RDT&E) efforts within this program is to transform electronic key delivery and cryptographic devices to meet the next generation warfighting requirements. These efforts are driven by the National Security Agency's (NSA) first tenet calling for an AF KME that allows for totally "man-out-of-the-loop" electronic crypto key distribution system from the generation of the key in the key processor all the way into the using End Crypto Unit (ECU). This eliminates the current key vulnerability of compromise/interruption by individuals transporting or loading the key. NSA's second tenet requires an inventory of cryptographic devices that are more robust, modular, scalable, capable, net-centric, and durable. This enables more effective and efficient performance including reduced inventory, expanded data rates, simplified upgrades, and ensured global information grid-compatibility.

The FY 2017 funding request was reduced by \$3.5 million to account for the availability of prior year execution balances.

This program is in Budget Activity 7, Operational System Development, as these budget activities include development efforts in the AF KME to upgrade systems currently fielded or have approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

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B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	69.727	46.599	50.352	0.000	50.352
Current President's Budget	64.972	46.303	46.388	0.000	46.388
Total Adjustments	-4.755	-0.296	-3.964	0.000	-3.964
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-0.296			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-2.325	0.000			
• Other Adjustments	-2.430	0.000	-3.964	0.000	-3.964

Change Summary Explanation

Reductions in FY15 funding due to higher Air Force priorities.
 Reductions in FY16 funding due to higher Air Force priorities.
 Reductions in FY17 funding due to higher Air Force priorities.

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force										Date: February 2016		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0303140F / <i>Information Systems Security Program</i>				Project (Number/Name) 674861 / <i>EKMS (Electronic Key Management System)</i>			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
674861: <i>EKMS (Electronic Key Management System)</i>	-	0.592	0.633	0.922	0.000	0.922	0.939	0.000	0.000	0.000	0.000	3.086
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Air Force Electronic Key Management System (AFEKMS) consists of multiple developments supporting the Air Force requirements portion of the DoD EKMS Program. The National Security Agency (NSA) acts as the Executive Agent for the DoD EKMS Program. AFEKMS, as part of the AF Key Management Enterprise (KME) and in concert with the overarching DoD EKMS program, provides a secure and flexible capability for the electronic generation, distribution, accounting, and management of key material, with users across DoD Command, Control, Communications, Computers, and Intelligence (C4I) and all AF weapon systems. AFEKMS supports U.S. DoD Information Assurance. Information Assurance emphasizes confidentiality, access control, multi-level secure databases, trusted computing, and information integrity. DoD EKMS has a three-tier hierarchical structure. This tiered structure provides capability to distribute, manage, and account for COMSEC keying material. Tier 1 installations comprise the key material generation and control capability. Tier 2 installations comprise the local distribution network (COMSEC accounts) and Tier 3 is where keying material is transferred from the EKMS infrastructure to the consumers End Cryptographic Units (ECUs). Additionally, AFEKMS resources provide maintenance/distribution of AF Communications Security (COMSEC) publications for all AF users.

EKMS improves protection of national security-related information by substantially enhancing confidentiality, integrity, and non-repudiation characteristics over the legacy manual key management systems. EKMS has and continues to greatly accelerate availability of crypto key materials through electronic transmission via Public Switched Telephone Network (PSTN) versus the manual handling and shipping of materials. While the current EKMS level-of-effort is directed at enhancing current and developing systems, the ultimate goal is for it to seamlessly transition to the net-centric DoD Key Management Infrastructure (KMI). The AFEKMS Program continues to provide software development to support emerging requirements during the KMI transition period. Activities include studies and analysis to support both current program planning and execution as well as development activities to extend life of the Simple Key Loader to bridge the gap between EKMS and the KMI implementation.

NOTE: AF KME Software development (e.g., Data Management Device - DMD, Common User Application Software - CUAS, and Simple Key Loader - SKL) is rolled up into Tier 2/Tier 3 Development. Software upgrades can be bundled and tracked as a unit, thereby allowing less management overhead and more focus on configuration management and control.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2015	FY 2016	FY 2017
Title: Fill /Load Device Post Production SW Development	0.592	0.633	0.922
Description: AF KME Post Production software development focuses on extending life of EKMS through transition to Key Management Infrastructure (KMI) capabilities. This will be accomplished via the Intermediary Application (iApp) software and Tri-Service development of KOV-21 replacement chip through Communications-Electronics Research, Development and Engineering Center (CERDEC) by U.S. Army. The iApp is designed to include all major Data Management Device (DMD)			

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Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303140F / <i>Information Systems Security Program</i>	Project (Number/Name) 674861 / <i>EKMS (Electronic Key Management System)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
capabilities. The iApp is designed to meet certification and accreditation requirements and iApp user interface is designed for ease of adoption and minimal user training for EKMS DMD, Consolidated Tier 3 Testing Infrastructure (CETTI) User Application Software (UAS), and Simple Key Loader (SKL). The CERDEC effort develops a replacement KOV-21 Card for current Simple Key Loader (SKL) to extend life of SKL until KMI compatible key loader is available.			
<i>FY 2015 Accomplishments:</i> - Continued Post Production software for extending life of EKMS through transition to DOD-Level Key Management Infrastructure (KMI) capabilities			
<i>FY 2016 Plans:</i> - Continue Post Production software for extending life of EKMS through transition to DOD-Level Key Management Infrastructure (KMI) capabilities.			
<i>FY 2017 Plans:</i> - Will continue Post Production software for extending life of EKMS through transition to DOD-Level Key Management Infrastructure (KMI) capabilities.			
Accomplishments/Planned Programs Subtotals	0.592	0.633	0.922

C. Other Program Funding Summary (\$ in Millions)										
Line Item	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete
• OPAF:BA03: 831010: <i>COMSEC Equipment</i>	2.150	4.950	1.047	0.000	1.047	3.060	0.000	0.000	0.000	Continuing
										Continuing

Remarks
Other Program Funding reflects Air Force Electronic Key Management System (AFEKMS) portion of Information Systems Security Program (ISSP) OPAF total.

D. Acquisition Strategy
Implement AF portion of the DoD's Cryptographic Modernization(CM) Initiative through modernization/modification efforts, in varying stages of the acquisition cycle, with focus on minimizing life cycle costs. All major contracts within this Project are open to full and open competition with technology knowledge, expertise, and prior experience on similar projects weighted heavily in the evaluation process.

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.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force **Date:** February 2016

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303140F / <i>Information Systems Security Program</i>	Project (Number/Name) 674861 / <i>EKMS (Electronic Key Management System)</i>
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Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Tier 2/3 software modifications and updates	TBD	Various : TBD	-	0.000		0.000		0.266	Apr 2017	0.000		0.266	Continuing	Continuing	-
Fill/Load Device Post Production Software Development	C/T&M	Mantech Sensor Technologies, Inc. : Belcamp, MD	-	0.000		0.000		0.000		0.000		0.000	Continuing	Continuing	-
Tri-Service CERDEC Chip	TBD	Various : TBD	-	0.464	Apr 2016	0.502	Apr 2017	0.527	Apr 2018	0.000		0.527	0.000	1.493	-
Subtotal			-	0.464		0.502		0.793		0.000		0.793	-	-	-

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			-	-		-		-		-		-	-	-	-

Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
SKL CETTI UAS Testing Spt DMS	MIPR	SPAWAR : San Diego, CA	-	0.128	May 2015	0.131	May 2016	0.129	May 2017	0.000		0.129	Continuing	Continuing	-
Subtotal			-	0.128		0.131		0.129		0.000		0.129	-	-	-

Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			-	-		-		-		-		-	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force							Date: February 2016			
Appropriation/Budget Activity 3600 / 7			R-1 Program Element (Number/Name) PE 0303140F / <i>Information Systems Security Program</i>			Project (Number/Name) 674861 / <i>EKMS (Electronic Key Management System)</i>				
	Prior Years	FY 2015	FY 2016		FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	0.592	0.633		0.922	0.000	0.922	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Air Force		Date: February 2016
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FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
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

AFEKMS Tier 2/3 SW Modification and Updates	[REDACTED]																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force		Date: February 2016
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
AFEKMS Tier 2/3 SW Modification and Updates	1	2015	4	2018

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Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0303140F / <i>Information Systems Security Program</i>				Project (Number/Name) 675100 / <i>Cryptographic Modernization</i>			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
675100: <i>Cryptographic Modernization</i>	-	55.018	29.068	38.729	0.000	38.729	33.809	30.689	33.649	34.246	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The AF Cryptographic Modernization Effort modernizes cryptographic devices protecting critical national security information across cyber domain operations. In September 2000, the Defense Review Board (DRB) tasked National Security Agency (NSA) to evaluate the security posture of the cryptographic inventory. Systems with aging algorithms, those approaching non-sustainability, and those generally incompatible with modern key management systems were also identified and have been replaced or are being fielded. Priority systems that required immediate replacement were also identified. In addition, NSA documented the need to modernize the cryptographic inventory with capabilities designed to enable network-centric operations. Replacements/Modernization of the near term vulnerable systems must occur within the timeframe specified by device and algorithm in Chairman Joint Chiefs of Staff Notice (CJCSN) 6510. The DoD Cryptographic Modernization Program was established to develop a modern cryptographic base that provides this assured security robustness, interoperability, advanced algorithms, releasability, programmability, and compatibility with the future Key Management Infrastructure (KMI-See PE 0303140F, BPAC 67523, AF KMI for a full description). This AF effort supports an integrated effort across the cyber domain to transform to next-generation cryptographic capabilities. It provides U.S. forces and multinational and interagency partners the security needed to protect the flow and exchange of operational decision making information in accordance with national and international policy/standards, the validated operational requirements of the warfighters, and the intelligence communities.

The AF Cryptographic Modernization Effort is a collection of projects accomplished in three phases: replacement, modernization, and transformation. The replacement phase of the program focused on updating and/or replacing out-of-date algorithms along with unsustainable cryptographic products. The modernization phase provides crypto devices with common solutions that are more robust, modular, scalable, and provide the durability to existing cryptographic end items, as well as updating mid-term aging/unsupportable crypto equipment. Manpower and logistics requirements will be reduced and manpower efficiencies gained, while incremental capability enhancements and footprint reduction are provided. The third phase of the Cryptographic Modernization Program, transformation, provides common joint solutions which enable secure, transparent, network-centric capabilities across the cyber domain. Activities also include studies and analysis to support both current program planning/execution and future program planning.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2015	FY 2016	FY 2017
Title: VINSON/ANDVT Cryptographic Modernization (VACM)	6.514	0.015	0.000
Description: VINSON (VHF(Very High Frequency)/UHF(Ultra High Frequency) Wideband Tactical Secure Voice System Cryptographic Equipment)-ANDVT (Advanced Narrowband Digital Voice Terminal) Cryptographic Modernization (VACM) will develop and acquire cryptographic capability to replace the legacy capability on VINSON/ANDVT secure voice communications on aircraft, ships, and ground fixed and mobile platforms (Devices: KY-57/58, KY-99/100, KYV-5 and ARC-234 with Embedded Crypto).			

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Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303140F / <i>Information Systems Security Program</i>	Project (Number/Name) 675100 / <i>Cryptographic Modernization</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2015	FY 2016	FY 2017
<p><i>FY 2015 Accomplishments:</i></p> <ul style="list-style-type: none"> - Completed production of 100 Low Rate Initial Production (LRIP) VINSON (VHF(Very High Frequency)/UHF(Ultra High Frequency) Wideband Tactical Secure Voice System Cryptographic Equipment)-ANDVT (Advanced Narrowband Digital Voice Terminal) Cryptographic Modernization (VACM) test units - Entered Force Development Evaluation to test and evaluate the VACM devices - ARC 234 completed the modification development using VACM technology <p><i>FY 2016 Plans:</i> Complete Force Development Evaluation</p> <p><i>FY 2017 Plans:</i> N/A</p>				
<p><i>Title:</i> Space Telemetry Tracking & Commanding (TT&C) Aerospace Vehicle Equipment Increment 1 (AVE Inc1)</p> <p><i>Description:</i> Space Telemetry Tracking & Commanding (TT&C) Aerospace Vehicle Equipment Increment 1 (AVE Inc 1) develops and delivers space qualified cryptographic products to satellite platforms for securing the TT&C link</p> <p><i>FY 2015 Accomplishments:</i> - Continued development activities on Space TT&C AVE Inc 1 CAROUSEL Cryptographic Engine (CCE) contract</p> <p><i>FY 2016 Plans:</i> - Complete development activities on Space TT&C AVE Inc 1 CCE contract</p> <p><i>FY 2017 Plans:</i> N/A</p>		5.146	4.085	0.000
<p><i>Title:</i> Technology Development (TD)</p> <p><i>Description:</i> Technical Development (TD) conducts concept development and early systems engineering activities to analyze evolving threats and Communications Security (COMSEC) capability gaps across AF and DoD mission areas. Develops, plans and executes foundational technology demonstration efforts to inform COMSEC requirements, build capability roadmaps and support cost estimates prior to Materiel Development Decision (MDD). Mitigates risk for thousands of AF and DoD users affected by algorithm security issues and ensures required security upgrades can be integrated into the AF and DoD enterprise. Works closely with NSA and other services to develop standards that increase security of communication and information products and facilitate efficient crypto and COMSEC enterprise management. Includes but is not limited to: Secure Micro-digital Data Link</p>		19.808	1.000	1.116

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B. Accomplishments/Planned Programs (\$ in Millions)

(SMDDL), Classified Data at Rest (CDAR), Common Encryption Management (CEMENT), Distributed Common Ground System (DCGS) Crypto, Transmission Security (TRANSEC) modernization, Enhanced Firefly (EFF) replacement development, Trusted Sensors, Integrated Data Denial (IDD) Crypto, Crypto Enterprise Tracking (CET), and Advanced Crypto Capabilities (ACC).

FY 2015 Accomplishments:

- Completed SMDDL certification and demonstrated miniaturized cryptographic solution for Size, Weight, and Power (SWaP) constrained platforms
- Continued efforts for adoption of baseline Common Crypto Management Information Base (MIB) to provide framework for future common management of cryptographic devices amongst Army, Navy and Air Force
- Analyzed CDAR capability gaps across multiple AF weapon systems and initiated effort to develop a JCIDS requirement with follow-on acquisition
- Continued Air Force Distributed Common Ground System Communications Modernization (AF DCGS CM) analysis to determine cryptographic devices that allow AF DCGS to continue operating during and after a Communications Modernization from ATM to the Next Generation Deterministic Protocol (NGDP); formulated DCGS development and procurement strategies resulting from these analyses with follow-on DCGS sustainment plan
- Initiated analysis for the replacement or upgrade of 150,000 Air Force devices in support of the Advanced Cryptographic Capabilities (ACC) program

FY 2016 Plans:

- Continue solutions refinement analysis to complete Concept Characterization and Technology Descriptions (CCTDs) for high priority CDAR use cases and support MDD
- Complete development of common crypto management software for integration with Army CHIMERA effort to demonstrate the remote crypto management under CEMENT for disparate families of Internet Protocol (IP) encryptors
- Continue analysis for the replacement or upgrade of 150,000 Air Force devices in support of the Advanced Cryptographic Capabilities (ACC) program
- Continue analysis of TRANSEC capability gaps and initiate concept characterization study for requirements refinement

FY 2015	FY 2016	FY 2017

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2015	FY 2016	FY 2017
<ul style="list-style-type: none"> •Form Initiative Integrated Product Team (IIPT) to assess/clarify IDD program requirements; prepare initiative for MDD FY 2017 Plans: •Will continue solutions analysis to complete Concept Characterization and Technology Descriptions (CCTDs) for CDAR use cases to support MDD. •Will continue analysis of TRANSEC capability gaps and CCTDs for requirements refinement. •Refine analysis for the replacement or upgrade of 150,000 Air Force devices in support of the Advanced Cryptographic Capabilities (ACC) program. •Will award IDD contract to develop a solution for hardware obsolescence issues. 				
<p>Title: Mini Crypto (MC)</p> <p>Description: Mini Crypto (MC) plans to develop common miniaturized cryptographic solution(s) for use in protecting Secret and Below information on Size, Weight, and Power (SWaP) constrained platforms.</p> <p>FY 2015 Accomplishments:</p> <ul style="list-style-type: none"> •Achieved MS B and completed Source Selection for the Engineering and Manufacturing Development (EMD) contract <p>FY 2016 Plans:</p> <ul style="list-style-type: none"> •Award EMD contract. Contractor will host an Integrated Baseline Review (IBR) meeting, System Requirements Review (SRR), System Functional Review (SFR) as well as a Preliminary Design Review (PDR). Prototypes will be delivered for initial test activities in support of integrated testing <p>FY 2017 Plans:</p> <ul style="list-style-type: none"> - Will continue to execute the EMD contract - Production Representative Engineering Development Models (PREDMs) will be delivered to the Government to support Government Integrated Development/Operational Testing and Operational Assessment - PREDMs will be used during this period for Security Verification Testing (SVT) as the program attempts to obtain NSA Type 1 Certification 		2.045	4.217	7.370

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2015	FY 2016	FY 2017
- Mini Crypto will seek Milestone C approval from the PEO				
<p>Title: Space Modular Common Crypto (SMCC)</p> <p>Description: Space Modular Common Crypto (SMCC) provides Information Assurance (IA) services for new satellite architectures via a family of common crypto solutions that integrate Tracking, Telemetry, & Commanding (TT&C), Mission Data (MD), and/or Transmission Security (TRANSEC) key stream functions for the Air Force and Intelligence Community space systems.</p> <p>FY 2015 Accomplishments:</p> <ul style="list-style-type: none"> - Continued Technology Maturation/Risk Reduction (TMRR) activities <p>FY 2016 Plans:</p> <ul style="list-style-type: none"> - Complete TMRR activities; achieved MS B in Nov 15; will award SMCC Cube/Small Sat development contract <p>FY 2017 Plans:</p> <ul style="list-style-type: none"> - Will continue SMCC Cube/Small Sat development contract activities. Will award SMCC Medium/Large Sat development contract 		15.711	10.596	27.119
<p>Title: Algorithm Transition Compliance and Support</p> <p>Description: Cryptologic Systems Division-supported AF Space Command (AF Cyber Core Function Lead) in Algorithm Transition, Compliance and Support provides Information Assurance (IA) Support that performs transition and governance efforts to be able to effectively analyze 30 classified algorithms, thousands of associated COMSEC keying material short titles, and hundreds of equipment types. This effort also tracks and reports algorithm/device integration across the AF. Based on analysis, determines and monitors mitigation strategies; develops and plans technology demonstration efforts to ensure new algorithms can be integrated into the AF enterprise. Assesses current state of AF crypto across the enterprise. Develops and maintains a classified CM database system that tracks status of AF crypto device types that is accessible by the CM community via SIPRNET. Efforts support NC3, ISR, all AF platforms, and most ground networks.</p> <p>FY 2015 Accomplishments:</p> <ul style="list-style-type: none"> •Continued program to develop a method and/or process to accurately transition, track, and manage crypto assets and COMSEC across the AF •Cryptologic Systems Division-supported AF Space Command (AF Cyber Core Function Lead) supported algorithm transition and governance efforts to effectively track, analyze, and report on AF use of 30 classified algorithms in over 270,000 devices across the AF enterprise comprised of over 300 equipment types/families and requiring thousands of associated COMSEC keying material short titles 		2.026	2.848	2.013

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Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303140F / <i>Information Systems Security Program</i>	Project (Number/Name) 675100 / <i>Cryptographic Modernization</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2015	FY 2016	FY 2017
<ul style="list-style-type: none"> • Provided Crypto-Mod analysis database to AF community to assist in annual assessments during long term effort to develop enterprise capabilities based assessment (CBA) to identify management capability gaps • Conducted annual assessment of the state of the AF cryptographic enterprise • Conducted initial evaluation of impacts of the emerging NSA Commercial Solutions for Classified (CSfC) cryptographic development model and its impacts on AF acquisition and sustainment • Evaluated AF posture as it relates to NSA's Advanced Cryptographic Capabilities program by assessing the impacts to the warfighter <p>FY 2016 Plans:</p> <ul style="list-style-type: none"> • Cryptologic Systems Division-supported AF Space Command (AF Cyber Core Function Lead) continues to support algorithm transition and governance efforts to effectively track, analyze, and report on AF use of 30 classified algorithms in over 270,000 devices across the AF enterprise comprised of over 300 equipment types/families and requiring thousands of associated COMSEC keying material short titles • Continue analysis and development of a method and/or process to accurately transition, track, and manage crypto assets and COMSEC across the AF • Provide Crypto-Mod analysis database to AF community to assist in annual assessments during long term effort to develop enterprise capabilities based assessment (CBA) to identify management capability gaps • Conduct annual assessment of the state of the AF cryptographic enterprise • Continue to evaluate NSA recommendations for Advanced Cryptographic Capabilities suite of algorithms and identify related tasks which affect the AF <p>FY 2017 Plans:</p> <ul style="list-style-type: none"> • Will continue to support algorithm transition and governance efforts to effectively track, analyze, and report on AF use of 30 classified algorithms in over 270,000 devices across the AF enterprise comprised of over 300 equipment types/families and requiring thousands of associated COMSEC keying material short titles • Will continue analysis and development of a method and/or process to accurately transition, track, and manage crypto assets and COMSEC across the AF 				

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303140F / <i>Information Systems Security Program</i>	Project (Number/Name) 675100 / <i>Cryptographic Modernization</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
<ul style="list-style-type: none"> •Will provide Crypto-Mod analysis database to AF community to assist in annual assessments during long term effort to develop enterprise capabilities based assessment (CBA) to identify management capability gaps •Will conduct annual assessment of the state of the AF cryptographic enterprise •Will continue to evaluate NSA recommendations for Advanced Cryptographic Capabilities suite of algorithms and identify related tasks which affect the AF 			
<p>Title: Missile Electronic Encryption Device (MEED) Modification</p> <p>Description: The MEED Modification will modify the legacy Missile Entry Control System (MECS) devices used to securely authenticate personnel attempting access to this Nation's ground-based Intercontinental Ballistic Missile (ICBM) facilities. This effort will bring the MEED equipment into compliance with current NSA information assurance (IA) security design guidance.</p> <p>FY 2015 Accomplishments: Continued market research and hosted MEED Modification Industry Day. Developed and released Request For Proposals, performed Source Selection activities and garnered approval of Development Decision (Milestone B equivalent brief)</p> <p>FY 2016 Plans: Complete Source Selection, award MEED Modification development contract and prepare for production decision in FY17</p> <p>FY 2017 Plans: Will continue development contract, complete Operational Testing and release Production RFP for Production contract</p>	3.768	6.307	1.111
Accomplishments/Planned Programs Subtotals	55.018	29.068	38.729

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u> <u>Base</u>	<u>FY 2017</u> <u>OCO</u>	<u>FY 2017</u> <u>Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPAF: BA03: 831010: <i>COMSEC Equipment</i>	37.567	30.538	21.775	0.000	21.775	17.780	21.957	16.550	24.034	Continuing	Continuing

Remarks
Remarks: Other Program Funding reflects Crypto Modernization (CM) portion of Information Systems Security Program (ISSP) OPAF total.

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303140F / <i>Information Systems Security Program</i>	Project (Number/Name) 675100 / <i>Cryptographic Modernization</i>

D. Acquisition Strategy

Implement AF portion of the DoD's Cryptographic Modernization(CM) Initiative through modernization/modification efforts, in varying stages of the acquisition cycle, with focus on minimizing life cycle costs. The CM portfolio of component acquisition projects is executing using a variety of approaches that vary from an evolutionary acquisition strategy using spiral development (for new component development) to incremental improvement leveraging leading-edge, certified non-developmental items (for modernization). Contract type is selected for each of the individual projects based upon its acquisition approach and its unique technology risks. A mixture of fixed-price and cost-reimbursement contracts have been selected which maximize the best value for the Government.

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.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force **Date:** February 2016

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303140F / <i>Information Systems Security Program</i>	Project (Number/Name) 675100 / <i>Cryptographic Modernization</i>
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Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
VINSON/ANDVT Cryptographic Modernization (VACM)	C/CPIF	Raytheon Company : Ft Wayne, IN	-	4.830	Jun 2015	0.000		0.000		0.000		0.000	0.000	4.830	47.863
VINSON/ANDVT/ Cryptographic Modernization (ARC-234)	MIPR	Defense Microelectronic Activity : Sacramento, CA	-	0.720	Oct 2015	0.000		0.000		0.000		0.000	0.000	0.720	32.737
Space Telemetry, Tracking & Commanding (TT&C) Aerospace Vehicle Equipment (AVE Inc 1)	C/CPFF	General Dynamics C4 Systems : Scottsdale, AZ	-	4.027	Oct 2014	2.857	May 2016	0.000		0.000		0.000	Continuing	Continuing	-
Tech Development	Various	MULTIPLE : MULTIPLE	-	17.211	Jan 2015	1.000	Jan 2016	1.016	Jan 2017	0.000		1.016	Continuing	Continuing	-
Mini Crypto	C/CPIF	VIASAT, INC : Carlsbad, CA	-	0.685	Oct 2015	2.478	Oct 2015	4.820	Dec 2016	0.000		4.820	0.000	7.983	-
Space Modular Common Crypto (SMCC)	C/TBD	MULTIPLE : MULTIPLE	-	10.329	Feb 2015	5.022	Apr 2016	19.010	Mar 2017	0.000		19.010	Continuing	Continuing	-
Missile Electronic Encryption Device (MEED) Modernization	C/FFP	SAIC : Tampa, FL	-	2.600	Nov 2015	4.241	Feb 2016	1.111	Aug 2017	0.000		1.111	Continuing	Continuing	-
Subtotal			-	40.402		15.598		25.957		0.000		25.957	-	-	-

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Mini Crypto	Reqn	OSI Vision LLC : San Antonio, TX	-	0.150	Sep 2015	0.000		0.000		0.000		0.000	Continuing	Continuing	-
Subtotal			-	0.150		0.000		0.000		0.000		0.000	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force **Date:** February 2016

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303140F / <i>Information Systems Security Program</i>	Project (Number/Name) 675100 / <i>Cryptographic Modernization</i>
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Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
VINSON/ANDVT Crypto Mod (VACM)	MIPR	MULTIPLE : MULTIPLE	-	0.104	Sep 2015	0.015	Dec 2015	0.000		0.000		0.000	0.000	0.119	5.001
Space Telemetry, Tracking & Commanding (TT&C) Aerospace Vehicle Equipment Increment 1 (AVE Inc 1)	Various	MULTIPLE : MULTIPLE	-	0.529	Oct 2014	0.455	Nov 2015	0.000		0.000		0.000	0.000	0.984	-
Mini Crypto	Various	MULTIPLE : MULTIPLE	-	0.297	Jan 2015	0.399	Mar 2016	0.814	Mar 2017	0.000		0.814	Continuing	Continuing	-
Space Modular Common Crypto (SMCC)	Various	MULTIPLE : MULTIPLE	-	1.206	Dec 2014	1.217	Dec 2015	2.596	Dec 2016	0.000		2.596	Continuing	Continuing	-
Missile Electronic Encryption Device (MEED) Modernization	MIPR	MULTIPLE : MULTIPLE	-	0.155	Jan 2016	0.554	Jul 2016	0.234	Feb 2017	0.000		0.234	Continuing	Continuing	-
Subtotal			-	2.291		2.640		3.644		0.000		3.644	-	-	-

Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Management Administration (PMA)	Various	Various : Various	-	12.175	Dec 2014	10.830	Dec 2015	9.128	Dec 2015	0.000		9.128	Continuing	Continuing	-
Subtotal			-	12.175		10.830		9.128		0.000		9.128	-	-	-

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		55.018	29.068	38.729	0.000	38.729	-	-	-

Remarks

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303140F / <i>Information Systems Security Program</i>	Project (Number/Name) 675100 / <i>Cryptographic Modernization</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
AN/ARC-234 Cryptographic Modernization	1	2015	4	2015
VINSON/ANDVT Cryptographic Modernization (VACM)	1	2015	4	2015
Space Telemetry Tracking and Commanding (TT&C) Aerospace Vehicle Equipment Increment 1 (AVE Inc 1)	1	2015	3	2016
Mini Crypto (MC)	1	2015	4	2017
Space Modular Common Crypto (SMCC)	1	2015	1	2020
Missile Electronic Encryption Device (MEED) Modernization	1	2015	4	2017
Algorithm Transition, Compliance and Information Assurance (IA) Support	1	2015	4	2021
Technology Development (TD)	1	2015	4	2021
Classified Data at Rest (CDAR)	1	2016	2	2020
Trusted Sensor (TS)	1	2016	2	2017
Integrated Data Denial (IDD)	1	2016	2	2019
Advanced Crypto Capabilities (ACC)	1	2016	4	2021

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force										Date: February 2016		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0303140F / <i>Information Systems Security Program</i>				Project (Number/Name) 675231 / <i>AF Key Management Infrastructure (AF KMI)</i>			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
675231: <i>AF Key Management Infrastructure (AF KMI)</i>	-	9.362	16.602	6.737	0.000	6.737	1.729	2.706	2.752	2.803	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Air Force Key Management Infrastructure (AF KMI) Program consists of multiple developments supporting the AF requirements/portion of the DoD Key Management Infrastructure (KMI). The National Security Agency (NSA) acts as the Executive Agent for the DoD KMI Program. AF KMI, in concert with this overarching DoD KMI Program, will provide a secure and flexible capability for the electronic generation, distribution, accounting, and management of key material and other communications security (COMSEC) materials for all DoD Command, Control, Communications, Computers, and Intelligence (C4I) systems and for the Services' weapon systems. KMI represents a broad-scale replacement of the current Electronic Key Management System (EKMS). KMI will provide capabilities that will allow networked operation in consonance with the Global Information Grid (GIG) and other DoD, fellow Service, and AF enterprise objectives. It thereby will assure a viable support infrastructure for future weapons and C4I programs to incorporate key management into their system designs.

The DoD KMI will greatly improve protection of national, security-related information by substantially enhancing confidentiality, integrity, and non-repudiation characteristics over the legacy EKMS. KMI will greatly accelerate the availability of crypto key materials through electronic transmission versus shipping of materials, will enhance mission responsiveness and flexibility, and will eventually take the man "out-of-the-loop" in the distribution of crypto key materials.

The AF KMI Program in concert with the DoD KMI Program is transitioning the Air Force from the legacy EKMS to modern DoD KMI and building the AF KMI Last Mile architecture. This Research and Development effort includes system engineering, development and testing to successfully implement the AF KMI Last Mile architecture as part of the AF Key Management Enterprise (KME). The AF KMI Last Mile program is a holistic solution integrating the legacy and new and evolving cryptographic programs, materials, products, sources and consumers. The AF KMI Last Mile capabilities include as part of the AF KME distribution, management, and load of cryptographic materials from the KMI (COMSEC account) to the cryptographic load devices. It builds the linkage interfaces that will allow KMI systems to communicate and integrates other related developments to meet operational needs. AF KMI Last Mile is currently in the Development Phase. Activities also include studies and analysis to support both current program planning and execution and future program planning.

In parallel with AF KMI, DoD and the Services are addressing the need for a new generation of future KMI-aware End Crypto Unit(ECU)that will be capable of direct interaction with the DoD KMI Enterprise, under the Joint Crypto Modernization Initiative (PE0303140F, BPAC 675100, Cryptographic Modernization, supports this initiative).In some cases these new ECUs, although needing to be supported by KMI, will not be KMI network-connected. "Last mile" transport of black (aka benign, or encrypted) and red (unencrypted) keying material from a KMI client to a new generation ECU or current legacy ECU will need to be handled in the early years by one of two data transfer devices. Initial early systems engineering must also be addressed to accommodate future connectivity between the DoD KMI and future KMI Aware/ Enabled ECUs. This enabling form factor functionally defined as a common ECU KMI aware/enabled key load module. This is targeted to be a standardized module to be provided to ECU developers and, as such, it must precede any future ECU developments.

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303140F / <i>Information Systems Security Program</i>	Project (Number/Name) 675231 / <i>AF Key Management Infrastructure (AF KMI)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
<p>Title: Air Force KMI Last Mile Space & Naval Warfare Systems Command (SPAWAR) Support(Tier 3)</p> <p>Description: Support included architectural planning, systems engineering, testing and studies and analyses for migration to the Key Management Infrastructure (KMI) (includes acquisition planning, systems integration, engineering support and System Program Office (SPO) support). Transitioned existing key management capabilities to AF KMI Last Mile Tier 3.</p> <p>FY 2015 Accomplishments: - Continued to provide annual resources (no funding) to SPAWAR to plan and execute specific Unmanned Aircraft Systems (UAS) testing for all Air Force ECUs</p> <p>FY 2016 Plans: - Continue to provide annual resources to SPAWAR to plan and execute specific UAS testing for all Air Force ECUs</p> <p>FY 2017 Plans: - Will continue to provide annual resources to SPAWAR to plan and execute specific UAS testing for all Air Force ECUs</p>	0.000	0.100	0.100
<p>Title: Air Force KMI Last Mile (Tier 3)</p> <p>Description: Air Force KMI Last Mile Tier 3 early system engineering, risk reduction and engineering development to include: concept development for distribution, load and management elements of last mile; studies and analyses for technology possibilities and prototyping efforts for the last mile; development of a certified KMI-aware, Product Delivery Enclave - enabled key load device.</p> <p>FY 2015 Accomplishments: - Achieved MS B and awarded/executed the Portable Key Loader (PKL) EMD contract</p> <p>FY 2016 Plans: - Continue to execute the PKL EMD contract and begin preparations to award/enter the PKL production phase</p> <p>FY 2017 Plans: - Will continue to execute the EMD contract and award/enter the PKL production phase</p>	9.362	16.502	6.637
Accomplishments/Planned Programs Subtotals	9.362	16.602	6.737

C. Other Program Funding Summary (\$ in Millions)										
Line Item	FY 2015	FY 2016	FY 2017	FY 2017	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Cost To
			Base	OCO	Total					Complete
• OPAF: BA03: 831010: <i>COMSEC Equipment</i>	3.890	4.676	14.207	0.000	14.207	11.062	11.109	10.927	12.591	Continuing
										Continuing

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303140F / <i>Information Systems Security Program</i>	Project (Number/Name) 675231 / <i>AF Key Management Infrastructure (AF KMI)</i>

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

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u> <u>Base</u>	<u>FY 2017</u> <u>OCO</u>	<u>FY 2017</u> <u>Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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Remarks
Remarks: Other Program Funding reflects AF Key Management Infrastructure (KMI) portion of Information Systems Security Program (ISSP) OPAF total.

D. Acquisition Strategy

Implement AF portion of the DoD's Cryptographic Modernization (CM) Initiative through modernization/modification efforts, in varying stages of the acquisition cycle, with focus on minimizing life cycle costs. All major contracts within this project are open to full and open competition with technology knowledge, expertise, and prior experience on similar projects weighted heavily in the evaluation process.

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.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force												Date: February 2016			
Appropriation/Budget Activity 3600 / 7				R-1 Program Element (Number/Name) PE 0303140F / Information Systems Security Program				Project (Number/Name) 675231 / AF Key Management Infrastructure (AF KMI)							
Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering	SS/T&M	MITRE : San Antonio, TX	-	0.354	Oct 2014	0.737	Oct 2015	0.076	Oct 2016	0.000		0.076	Continuing	Continuing	-
AF KMI Last Mile	C/CPIF	L3 Comm: Camden NJ : Various	-	6.010	Sep 2015	12.942	Mar 2016	5.116	Mar 2017	0.000		5.116	Continuing	Continuing	13.364
Subtotal			-	6.364		13.679		5.192		0.000		5.192	-	-	-
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering & Technical Documentation	SS/T&M	MITRE : San Antonio, TX	-	1.037	Oct 2014	1.217	Oct 2015	0.700	Oct 2016	0.000		0.700	Continuing	Continuing	-
Engineering & Technical Acquisition Support Service	C/CPFF	Jacobs Engineering : San Antonio, TX	-	1.004	Jan 2015	0.759	Jan 2016	0.210	Jan 2017	0.000		0.210	Continuing	Continuing	-
AF KMI Last Mile (Tier 3)	MIPR	U.S. Navy SPAWAR : San Diego, CA	-	0.100	Jan 2015	0.100	Mar 2016	0.100	May 2017	0.000		0.100	Continuing	Continuing	-
Subtotal			-	2.141		2.076		1.010		0.000		1.010	-	-	-
Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
KMI Last Mile	PO	46 TS : Eglin AFB, FL	-	0.246	Nov 2014	0.246	Nov 2015	0.105	Mar 2017	0.000		0.105	Continuing	Continuing	-
NSA Test Support	MIPR	NSA : TBD	-	0.000		0.000		0.190	Feb 2017	0.000		0.190	Continuing	Continuing	-
KMI Last Mile TES	MIPR	605 TES : Eglin AFB, FL	-	0.000		0.000		0.100	Mar 2017	0.000		0.100	Continuing	Continuing	-
Subtotal			-	0.246		0.246		0.395		0.000		0.395	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force												Date: February 2016			
Appropriation/Budget Activity 3600 / 7				R-1 Program Element (Number/Name) PE 0303140F / <i>Information Systems Security Program</i>				Project (Number/Name) 675231 / <i>AF Key Management Infrastructure (AF KMI)</i>							
Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Administration (PMA)	Various	Various : Various	-	0.611	Dec 2014	0.601	Dec 2015	0.140	Dec 2016	0.000		0.140	Continuing	Continuing	-
Subtotal			-	0.611		0.601		0.140		0.000		0.140	-	-	-
			Prior Years	FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	9.362		16.602		6.737		0.000		6.737	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303140F / <i>Information Systems Security Program</i>	Project (Number/Name) 675231 / <i>AF Key Management Infrastructure (AF KMI)</i>

FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
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

AF KMI Tier 3 Last Mile	[REDACTED]																											
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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303140F / <i>Information Systems Security Program</i>	Project (Number/Name) 675231 / <i>AF Key Management Infrastructure (AF KMI)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
AF KMI Tier 3 Last Mile	1	2015	3	2017

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