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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force										Date: February 2015		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0603260F I Intelligence Advanced Development							
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	-	0.977	-	-	-	-	-	-	-	-	-	0.977
652053: National Air Intel Center	-	0.977	-	-	-	-	-	-	-	-	-	0.977
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2015, PE 0603260F (BA5), Intelligence Advanced Development (IAD), Project Number 652053, National Air Intelligence Center efforts were transferred to PE 0603260F (BA4), Intelligence Advanced Development (IAD), Project Number 64537A, Intelligence Analysis Capabilities (IAC), in order to properly align efforts, increase management efficiency, and reduce administrative actions.

A. Mission Description and Budget Item Justification

Intelligence Advanced Development (IAD) develops and demonstrates technology required to support warfighter needs for timely all source intelligence information. IAD supports global awareness, consistent battlespace knowledge, precision information, and the execution of time critical missions. IAD projects provide better on-time information to the warfighter using new and existing data sources, streamlining data analysis, reducing footprint required, and extending life of sensors in place and enhancing performance. The Air Force Research Lab, Rome Research Site, Information and Intelligence Exploitation Division (AFRL/RIE), works directly with users, employing evolutionary approaches and integrating finished modules directly in the field. The programs are oriented toward specific shortfalls and deficiencies as documented by the Major Commands (MAJCOMS), unified commands, and intelligence organizations in their mission and functional area plans. This PE expedites technology transition from the laboratory to operational users via rapid prototyping, focusing on technology insertion correcting AF intelligence deficiencies at the tactical and operational levels. This PE bridges the technology transition from Advanced Technology Demonstrations (ATDs) and Integrated Technology Thrust Programs (ITTPs) to current/new systems, and also supports the associated Defense Technology Objectives (DTOs). IAD may also reallocate existing resources to support out-of-cycle new/updated warfighter requirements.

Requirements for this PE are gathered and prioritized by the 25th Air Force (25 AF). Development of new/improved capabilities to meet the requirements is managed by AFRL/RIE. Prototype products, usually in the form of software, once evaluated by the users, are transferred to the operational environment.

This Program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full-rate production.

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B. Program Change Summary (\$ in Millions)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget		0.977	-	-	-	-
Current President's Budget		0.977	-	-	-	-
Total Adjustments		-	-	-	-	-
• Congressional General Reductions		-	-			
• Congressional Directed Reductions		-	-			
• Congressional Rescissions		-	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-	-			
• Reprogrammings		-	-			
• SBIR/STTR Transfer		-	-			
• Other Adjustments		-	-	-	-	-
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2014	FY 2015	FY 2016
Title: Project Theo				0.350	-	-
Description: Continues development of prototype to query and retrieve information across all available National Air & Space Intelligence Center (NASIC) Corporate Object Repositories (COR), metadata and their supported features; thereby assisting the Intel Analyst in identifying intelligence gaps and allowing the analyst to nominate intel collection in those areas.						
FY 2014 Accomplishments: Released prototype 1.3 to operational community for evaluation and initiated final combination of Project Theo's components. Released Final prototype.						
Title: High Performance Aero Vehicle Modeler (HP-AVM)				0.266	-	-
Description: Continues development of the HP-AVM tool, with the focus on modeling previously unknown airframes, that provides detailed engineering assessments of threat aircraft performance and characteristics.						
FY 2014 Accomplishments: Released prototype 1.2 and initiated and released final prototype of HP-AVM.						
Title: Space, Air, and Terrestrial Modeling & Simulation Initiative				0.361	-	-
Description: Initiates SATM&S to add a space communications modeling capability to the previously fielded terrestrial communications focused TEL-SCOPE tool. This effort will complete modeling of an adversary's total C4ISR system and assist nomination of terrestrial and space targets.						
FY 2014 Accomplishments:						

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C. Accomplishments/Planned Programs (\$ in Millions)								FY 2014	FY 2015	FY 2016	
Initiated development of prototype.											
Accomplishments/Planned Programs Subtotals								0.977	-	-	
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• RDTE: BA04: 0603260F: <i>Intelligence Advanced Development</i>	-	5.408	5.032	-	5.032	5.654	5.691	5.663	5.764	Continuing	Continuing
Remarks											
E. Acquisition Strategy											
Requirements of new/upgraded intelligence analysis tools are identified and prioritized by the 25th Air Force (25 AF). Development of capabilities to meet these requirements is managed by the AF Research Laboratory (Rome Research Site). Prototype products (usually software), once evaluated by the users, are fielded in incremental capability spirals. All major contracts within this project are awarded after full and open competition.											
F. Performance Metrics											
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Air Force												Date: February 2015			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0603260F / Intelligence Advanced Development				Project (Number/Name) 652053 / National Air Intel Center					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Project Theo	C/CPFF	Northrop Grumman Mission Systems, General Dynamics, and Janya : Beavercreek, OH	-	0.316	Nov 2013	-		-		-		-	-	0.316	1.372
High Performance Aero Vehicle Modeler (HP-AVM)	C/CPFF	Northrop Grumman Mission Systems : Beavercreek, OH	-	0.231	Nov 2013	-		-		-		-	-	0.231	1.112
Space Air & Terrestrial Modeling &Simulation Initiative	C/CPFF	Northrop Grumman Mission Systems : Beavercreek, OH	-	0.325	Jun 2014	-		-		-		-	-	0.325	-
Subtotal			-	0.872		-		-		-		-	-	0.872	-
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Subtotal			-	-		-		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Subtotal			-	-		-		-		-		-	-	-	-
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
PMA	Various	AFRL - Information Directorate : Rome, NY	-	0.105	Oct 2013	-		-		-		-	-	0.105	-

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Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Subtotal			-	0.105		-		-		-		-	-	0.105	-

	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	0.977	-	-	-	-	-	0.977	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Air Force			Date: February 2015		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0603260F / <i>Intelligence Advanced Development</i>			Project (Number/Name) 652053 / <i>National Air Intel Center</i>

	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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
Electronic Warfare (EW) Flagging Development/Prototype																												
Project Theo Development/Prototype																												
HP-AVM Development/Prototype																												
Space, Air, and Terrestrial M&S Development/Prototype																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Air Force			Date: February 2015
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0603260F / <i>Intelligence Advanced Development</i>	Project (Number/Name) 652053 / <i>National Air Intel Center</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Electronic Warfare (EW) Flagging Development/Prototype	1	2014	2	2014
Project Theo Development/Prototype	1	2014	4	2014
HP-AVM Development/Prototype	1	2014	4	2014
Space, Air, and Terrestrial M&S Development/Prototype	3	2014	4	2014