

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force	DATE: February 2012
--	----------------------------

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>				PE 0604750F: <i>Intelligence Equipment</i>							
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	1.357	0.995	0.803	-	0.803	0.977	1.123	1.130	1.145	Continuing	Continuing
652053: <i>National Air Intel Center</i>	1.357	0.995	0.803	-	0.803	0.977	1.123	1.130	1.145	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Intelligence Equipment (IE) Program Element (PE) performs the engineering development of software, and/or automated information operations techniques to streamline the processing, integration, exploitation, display, and dissemination of strategic and tactical intelligence information. IE provides continuing development and upgrades of threat analysis capabilities to produce integrated, predictive air and space intelligence to enable military operations, force modernization decisions, and policymaking. IE accelerates and increases the accuracy of threat estimates and system descriptions to deployed operational forces. IE also provides clients with accurate, predictive, relevant, and timely intelligence that will support client processes, operational planning, and mission execution. IE develops new or upgraded analysis, modeling and simulation tools focused on intelligence production in support of all source AF operational and developmental functions. Each of the development projects within the IE program portfolio transition technologies to the operational communities through the incremental release of upgraded versions over a period of years as the development projects progress towards the final configuration. IE may reallocate existing resources to support out-of-cycle new/updated warfighter requirements. Requirements for this PE are gathered and prioritized by the Air Force Intelligence, Surveillance, and Reconnaissance Agency (AF ISR Agency). Development of new/improved capabilities to meet the requirements is managed by AFRL/RIED.

Activities also include studies and analysis to support both current program planning and execution and future program planning.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because the program develops and inserts new technologies into existing systems and models in order to keep existing systems current and affordable while ensuring system integration, interoperability, and utility.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force				DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604750F: Intelligence Equipment				
B. Program Change Summary (\$ in Millions)		FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget		1.364	0.995	0.801	-	0.801
Current President's Budget		1.357	0.995	0.803	-	0.803
Total Adjustments		-0.007	-	0.002	-	0.002
• Congressional General Reductions		-	-			
• Congressional Directed Reductions		-	-			
• Congressional Rescissions		-	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-	-			
• Reprogrammings		-	-			
• SBIR/STTR Transfer		-	-			
• Other Adjustments		-0.007	-	0.002	-	0.002
Change Summary Explanation						
FY11 Congressional General Reduction of 0.007M in Other Adjustment row.						
FY13 slight funding increase to support program efforts						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2011	FY 2012	FY 2013
Title: EW Flagging				0.925	0.399	0.401
Description: Continues enhancement of capability to automatically assess and "flag" threat systems that fall outside the detection capability of US DoD airborne self-protection systems (Radar Warning Receivers and Electronic Surveillance Measures).						
FY 2011 Accomplishments: Delivered second spiral release of EW Flagging. Initiated third spiral release of EW Flagging.						
FY 2012 Plans: Field Third spiral release of EW Flagging and initiate development of final version of EW Flagging capability.						
FY 2013 Plans: Will continue development of fourth spiral release of EW Flagging capability						
Title: Project Theo				0.074	0.060	0.300
Description: Continues capability 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.						

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force							DATE: February 2012				
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604750F: Intelligence Equipment							
C. Accomplishments/Planned Programs (\$ in Millions)							FY 2011	FY 2012	FY 2013		
FY 2011 Accomplishments: Delivered initial spiral release and initiated second spiral release.											
FY 2012 Plans: Deliver second spiral release and initiate 3rd spiral release.											
FY 2013 Plans: Will deliver third spiral release and intiате development of final version (2.0) of Project Theo.											
Title: High Performance Aero Vehicle Modeler Description: Continues update of the tool, with a focus on modeling previously unknown airframes, that provides detailed engineering assessments of threat aircraft performance and characteristics.							0.358	0.536	0.040		
FY 2011 Accomplishments: Completed initial study and initiated first spiral release.											
FY 2012 Plans: Deliver first spiral release, initiate and deliver second spiral release. Initiate development of final version of HP-AVM capability.											
FY 2013 Plans: Will field final version (3) of HP-AVM capability.											
Title: Space Air & Terrestrial Modeling and Simulation Initiative Description: Initiates SATM&S (Space, Air, & Terrestrial Modeling & Simulation Initiative) 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.							-	-	0.062		
FY 2013 Plans: Will initiate development of initial spiral release.											
Accomplishments/Planned Programs Subtotals							1.357	0.995	0.803		
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• None: N/A	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604750F: <i>Intelligence Equipment</i>	
<u>E. Acquisition Strategy</u> Requirements for new / upgraded intelligence analysis tools are gathered and prioritized by the Air Force Intelligence, Surveillance and Reconnaissance Agency (AF ISR Agency, formerly the Air Intelligence Agency). Development of capabilities to meet those 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. <u>F. Performance Metrics</u> 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 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604750F: Intelligence Equipment	PROJECT 652053: National Air Intel Center

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Air Force

DATE: February 2012

APPROPRIATION/BUDGET ACTIVITY

3600: *Research, Development, Test & Evaluation, Air Force*
BA 5: *Development & Demonstration (SDD)*

R-1 ITEM NOMENCLATURE

PE 0604750F: *Intelligence Equipment*

PROJECT

652053: *National Air Intel Center*

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Continue Electronic Warfare (EW) Flagging	1	2011	2	2014
Second Spiral Release - EW Flagging	4	2011	4	2011
Third Spiral Release - EW Flagging	4	2012	4	2012
Field EW Flagging V4.0	2	2014	2	2014
Continue Project Theo (Automated Text Retrieval, Analysis, and Exploitation Capability)	1	2011	2	2017
Initial Spiral Release - Project Theo	1	2011	1	2011
Second Spiral Release - Project Theo	2	2012	2	2012
Third Spiral Release - Project Theo	2	2013	2	2013
Fourth Spiral Release - Project Theo	2	2014	2	2014
Fifth Spiral Release - Project Theo	2	2015	2	2015
Sixth Spiral Release - Project Theo	2	2016	2	2016
Field Project Theo Componenets	2	2017	2	2017
Complete High Performance Aero Vehicle Modeler	1	2011	3	2013
Complete Initial Study - HP-AVM	1	2011	1	2011
First Spiral Release - HP-AVM	1	2012	1	2012
Second Spiral Release - HP-AVM	4	2012	4	2012
Field HP-AVM V3	3	2013	3	2013
Initiate Space Air & Terrestrial Modeling & Simulation (SAT M&S) Initiative	4	2013	4	2017
Initial Spiral Release - SAT M&S	4	2014	4	2014
Second Spiral Release - SAT M&S	4	2015	4	2015
Third Spiral Release - SAT M&S	4	2016	4	2016
Fourth Spiral Release - SAT M&S	3	2017	3	2017