

**UNCLASSIFIED**

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604750F: Intelligence Equipment							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	2.282	1.495	1.364	0.000	1.364	1.262	1.074	1.289	1.367	Continuing	Continuing
652053: National Air Intel Center	2.282	1.495	1.364	0.000	1.364	1.262	1.074	1.289	1.367	Continuing	Continuing
A. Mission Description and Budget Item Justification											
<p>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 is the only AF program developing new or upgraded analysis, modeling and simulation tools focused on intelligence production in support of 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.</p> <p>This PE is Budget Activity 5, System Demonstration and Development (SDD), because the program develops and inserts new technologies into existing systems and models to keep existing systems current.</p> <p>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/RIEB.</p> <p>Activities also include studies and analysis to support both current program planning and execution and future program planning.</p>											

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APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
3600: Research, Development, Test & Evaluation, Air Force		PE 0604750F: Intelligence Equipment			
BA 5: Development & Demonstration (SDD)					
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	2.282	1.495	0.000	0.000	0.000
Current President's Budget	2.282	1.495	1.364	0.000	1.364
Total Adjustments	0.000	0.000	1.364	0.000	1.364
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	1.364	0.000	1.364
Congressional Add Details (\$ in Millions, and Includes General Reductions)					
Project: 652053: National Air Intel Center				FY 2009	FY 2010
Congressional Add: Completed Integrated SAR/PI Evaluation for Critical Targeting and Aging Research (INSPECTAR)				0.800	0.000
Congressional Add Subtotals for Project: 652053				0.800	0.000
Congressional Add Totals for all Projects				0.800	0.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Air Force								<b>DATE:</b> February 2010			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604750F: <i>Intelligence Equipment</i>				<b>PROJECT</b> 652053: <i>National Air Intel Center</i>			
<b>COST (\$ in Millions)</b>	<b>FY 2009 Actual</b>	<b>FY 2010 Estimate</b>	<b>FY 2011 Base Estimate</b>	<b>FY 2011 OCO Estimate</b>	<b>FY 2011 Total Estimate</b>	<b>FY 2012 Estimate</b>	<b>FY 2013 Estimate</b>	<b>FY 2014 Estimate</b>	<b>FY 2015 Estimate</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
652053: <i>National Air Intel Center</i>	2.282	1.495	1.364	0.000	1.364	1.262	1.074	1.289	1.367	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 is the only AF program developing new or upgraded analysis, modeling and simulation tools focused on intelligence production in support of 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.

This PE is Budget Activity 5, System Demonstration and Development (SDD), because the program develops and inserts new technologies into existing systems and models to keep existing systems current.

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/RIEB.

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

**B. Accomplishments/Planned Program (\$ in Millions)**

	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>
MAJOR THRUST: Completed Upgrade of TEL-SCOPE Tool with Expanded Operational Capability (EOC)	0.290	0.000	0.000	0.000	0.000

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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			
B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: In FY2009: Completed Upgrade of TEL-SCOPE Tool with Expanded Operational Capability (EOC)					
FY 2010 Plans: In FY2010: N/A					
FY 2011 Base Plans: In FY2011: N/A					
FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.					
MAJOR THRUST: To Complete Radio Frequency (RF) Detection & Analysis Capabilities	0.337	0.190	0.000	0.000	0.000
FY 2009 Accomplishments: In FY2009: To Complete Radio Frequency (RF) Detection & Analysis Capabilities					
FY 2010 Plans: In FY2010: To Complete Radio Frequency (RF) Detection & Analysis Capabilities					
FY 2011 Base Plans: In FY2011: N/A					
FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.					
MAJOR THRUST: Continue Electronic Warfare (EW) Flagging	0.560	0.854	0.812	0.000	0.812
FY 2009 Accomplishments: In FY2009: Continue Electronic Warfare (EW) Flagging					

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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		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: In FY2010: Continue Electronic Warfare (EW) Flagging						
FY 2011 Base Plans: In FY2011: Continue Electronic Warfare (EW) Flagging						
FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.						
MAJOR THRUST: Continue Project Theo (Automated Text Retrieval, Analysis, and Exploitation Capability) FY 2009 Accomplishments: In FY2009: Continue Project Theo (Automated Text Retrieval, Analysis, and Exploitation Capability) FY 2010 Plans: In FY2010: Continue Project Theo (Automated Text Retrieval, Analysis, and Exploitation Capability) FY 2011 Base Plans: In FY2011: Continue Project Theo (Automated Text Retrieval, Analysis, and Exploitation Capability) FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.		0.295	0.332	0.319	0.000	0.319
MAJOR THRUST: Initiate High Performance Aero Vehicle Modeler FY 2009 Accomplishments: In FY2009: N/A FY 2010 Plans: In FY2010: Initiate High Performance Aero Vehicle Modeler		0.000	0.119	0.233	0.000	0.233

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Air Force				<b>DATE:</b> February 2010	
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>		<b>R-1 ITEM NOMENCLATURE</b> PE 0604750F: <i>Intelligence Equipment</i>		<b>PROJECT</b> 652053: <i>National Air Intel Center</i>	
<b>B. Accomplishments/Planned Program (\$ in Millions)</b>					
	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>
<i>FY 2011 Base Plans:</i> In FY2011: Initiate High Performance Aero Vehicle Modeler  <i>FY 2011 OCO Plans:</i> In FY 2011 OCO: Not Applicable.					
Accomplishments/Planned Programs Subtotals	1.482	1.495	1.364	0.000	1.364
	<b>FY 2009</b>	<b>FY 2010</b>			
Congressional Add: Completed Integrated SAR/PI Evaluation for Critical Targeting and Aging Research (INSPECTAR)  <i>FY 2009 Accomplishments:</i> In FY2009: Completed Integrated SAR/PI Evaluation for Critical Targeting and Aging Research (INSPECTAR)  <i>FY 2010 Plans:</i> In FY2010: N/A	0.800	0.000			
Congressional Adds Subtotals	0.800	0.000			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Air Force								<b>DATE:</b> February 2010			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604750F: <i>Intelligence Equipment</i>				<b>PROJECT</b> 652053: <i>National Air Intel Center</i>			

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

Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PE Not Provided (20003): <i>Activity Not Provided</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**D. Acquisition Strategy**

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.

**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 2011 Air Force										DATE: February 2010			
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				
Product Development (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
TEL-SCOPE Expanded Operational Capability (EOC)	Various/ Various	Prediction Systems, Inc. Spring Lake, NJ & Northrop Grumman Mission Sys...	1.305	0.000		0.000		0.000		0.000	0.000	1.305	1.305
Radio Frequency Detection & Analysis Capabilities	Various/ Various	Dept of Energy, Northrop Grumman Mission Systems Fairborn, OH and NE	1.129	0.190	Nov 2009	0.000		0.000		0.000	0.000	1.319	1.319
Electronic Warfare Flagging	C/CPFF	Sierra Nevada Corporation San Antonio, TX	1.043	0.854	Nov 2009	0.812	Nov 2010	0.000		0.812	Continuing	Continuing	Continuing
Project Theo (Automated Text Retrieval, Analysis & Exploitation Capability)	C/CPFF	Northrup Grumman Mission Systems Fairborn, OH	0.395	0.332	Nov 2009	0.319	Nov 2010	0.000		0.319	Continuing	Continuing	Continuing
High Performance Aero Vehicle	C/CPFF	Northrop Grumman Mission Systems Fairborn, OH	0.000	0.119	Jan 2010	0.233	Nov 2010	0.000		0.233	Continuing	Continuing	Continuing
Integrated SAR/PI Evaluation for Critical Targeting and Aging Research (INSPECTAR)	C/CPFF	CACI/GTS Division Dayton, OH	0.800	0.000		0.000		0.000		0.000	0.000	0.800	0.800

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2011 Air Force</b>											<b>DATE:</b> February 2010		
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<b>Product Development (\$ in Millions)</b>													
				<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
(FY09 Congressional Add)													
<b>Subtotal</b>			4.672	1.495		1.364		0.000		1.364			
<b>Remarks</b>													
			<b>Total Prior Years Cost</b>	<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>			4.672	1.495		1.364		0.000		1.364			
<b>Remarks</b> Total Prior Years Cost may include only FY 2009 data.													

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

## APPROPRIATION/BUDGET ACTIVITY

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

## R-1 ITEM NOMENCLATURE

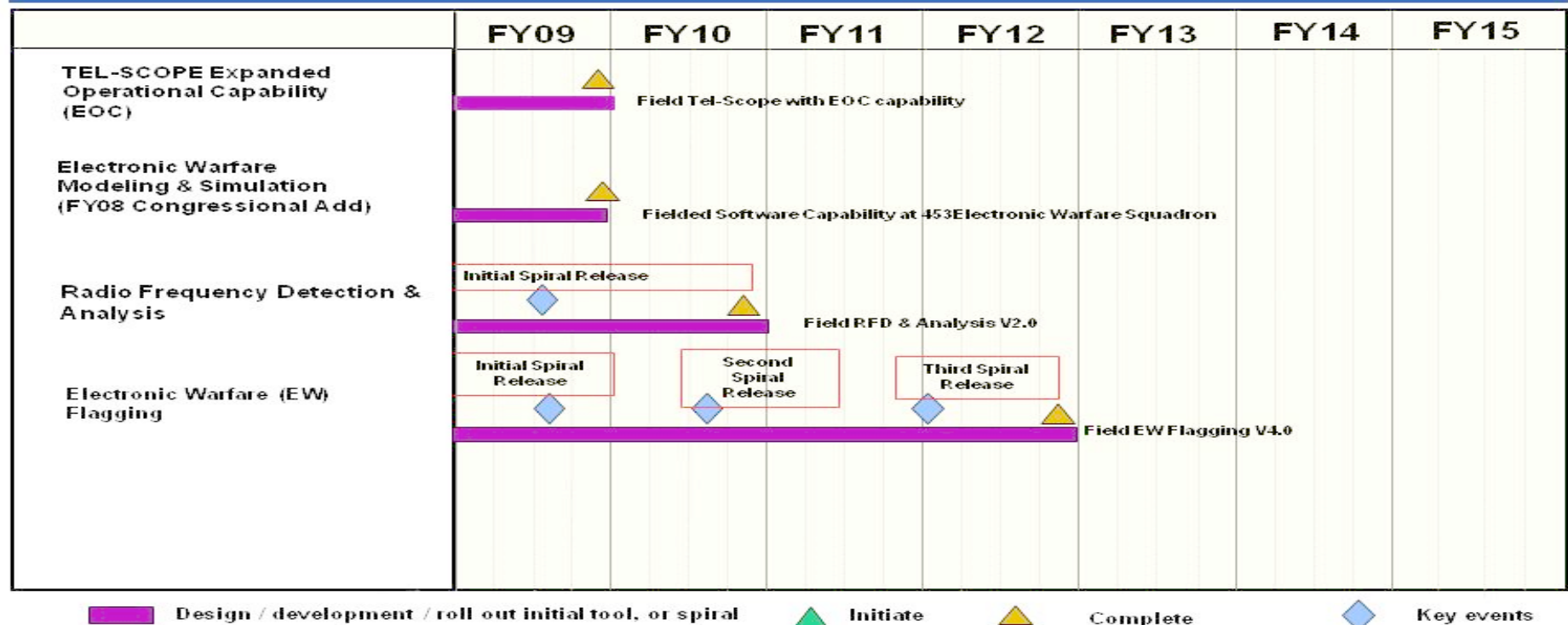
PE 0604750F: Intelligence Equipment

## PROJECT

652053: National Air Intel Center



## Intelligence Equipment Program Schedule ( p 1 of 2)



PB11 R-Docs

Depicted by installation/production flow

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

**APPROPRIATION/BUDGET ACTIVITY**

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

**R-1 ITEM NOMENCLATURE**

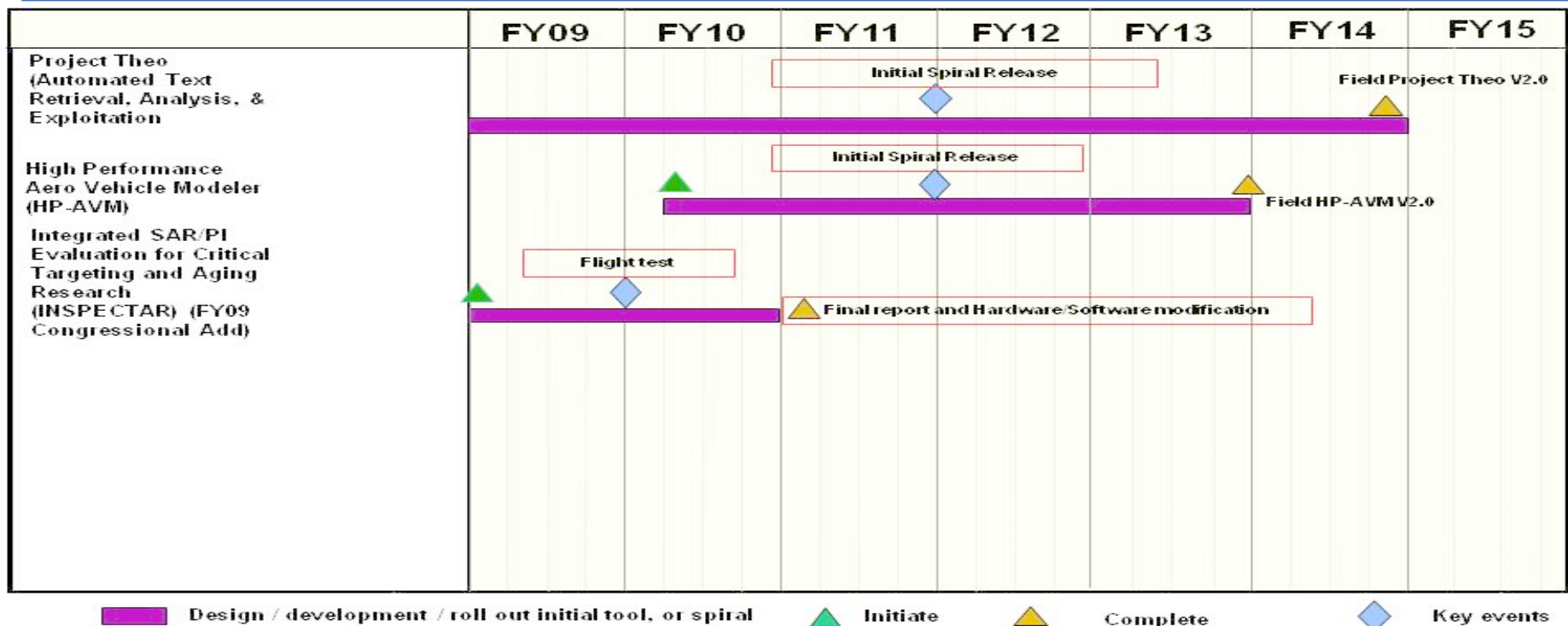
PE 0604750F: Intelligence Equipment

**PROJECT**

652053: National Air Intel Center



## Intelligence Equipment Program Schedule ( p 2 of 2)



PB10 R-Docs

Depicted by installation/production flow

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2011 Air Force			<b>DATE:</b> February 2010
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604750F: <i>Intelligence Equipment</i>	<b>PROJECT</b> 652053: <i>National Air Intel Center</i>	

**Schedule Details**

<b>Event</b>	<b>Start</b>		<b>End</b>	
	<b>Quarter</b>	<b>Year</b>	<b>Quarter</b>	<b>Year</b>
Completed TEL-SCOPE Expanded Operational Capability (EOC)	1	2009	4	2009
Completed Electronic Warfare Modeling and Simulation (FY08 Congressional Add)	1	2009	4	2009
Completed Radio Frequency (RF) Detection & Analysis Capabilities	1	2009	4	2010
Continue Electronic Warfare (EW) Flagging	1	2009	4	2011
Continue Project Theo (Automated Text Retrieval, Analysis, and Exploitation Capability)	1	2009	4	2011
Continue High Performance Aero Vehicle Modeler	2	2010	4	2011
Completed Integrated SAR/PI Evaluation for Critical Targeting and Aging Research (INSPECTAR) (FY09 Congressional Add)	1	2009	4	2010

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