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

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

3600: Research, Development, Test & Evaluation, Air Force

PE 0301400F: Space Superiority Intelligence

BA 7: Operational Systems Development

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	8.866	12.056	12.197	-	12.197	12.371	12.550	12.763	12.992	Continuing	Continuing
670374: Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt	-	8.866	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
67A051: Space Superiority - Advanced Intelligence Systems	-	0.000	12.056	12.197	-	12.197	12.371	12.550	12.763	12.992	Continuing	Continuing

<sup>\*</sup>FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### Note

In FY13 all of PE0301400F RDT&E, AF funds and content were transferred into Project 67A051, Space Superiority -- Advanced Intelligence Systems to separate it from unrelated projects.

## A. Mission Description and Budget Item Justification

Provides Electronic Support (ES) for key find, fix, track, target, engage and assess (F2T2EA) requirements supporting Space Superiority activities. Additionally, funding provides for developmental intelligence collection to support new capability acquisition and development. This program element funds transportable intelligence collection and analysis capabilities that are modular (plug-and-play), and can keep pace with technological advances and emerging threats. It provides intelligence support systems for Space Situational Awareness activities that provide the requisite current and predictive knowledge of space events and threat conditions and intelligence support to Space Protection Programs by providing architectural survivability analyses of critical mission assets for mission assurance. Additionally, funding supports phased threat system analysis and studies (A&S), test support, lab equipment, and Material Acquisition and Exploitation (MAE) for system development and vulnerability/susceptibility assessments to support tactics, techniques and procedures (TTP) development. Also funded are future threat technology studies necessary for mission area success and achievement of space superiority, helping preserve the US space advantage across all domains. This program is in Budget Activity 7, Operational System Development, because it includes development efforts to upgrade systems that have been fielded.

PE 0301400F: Space Superiority Intelligence Air Force

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<sup>\*\*\*</sup> The FY 2014 OCO Request will be submitted at a later date

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

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE
PE 0301400F: Space Superiority Intelligence

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	8.866	12.056	12.197	-	12.197
Current President's Budget	8.866	12.056	12.197	-	12.197
Total Adjustments	0.000	0.000	0.000	-	0.000
<ul> <li>Congressional General Reductions</li> </ul>	-	0.000			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	0.000			
<ul> <li>Congressional Rescissions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Adds</li> </ul>	-	0.000			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	0.000			
<ul> <li>Reprogrammings</li> </ul>	0.000	0.000			
SBIR/STTR Transfer	0.000	0.000			
Other Adjustments	0.000	0.000	0.000	-	0.000

PE 0301400F: Space Superiority Intelligence Air Force

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Exhibit R-2A, RDT&E Project Ju	ustification	: PB 2014 <i>F</i>	Air Force							DATE: Apı	il 2013	
APPROPRIATION/BUDGET ACT 3600: Research, Development, To BA 7: Operational Systems Development			•	<b>ATURE</b> Superiority	lectronic Combat Spt, C3 /Multi-Mission, Technology and							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
670374: Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt	-	8.866	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		

<sup>\*</sup>FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

## A. Mission Description and Budget Item Justification

Provides Electronic Support (ES) for key find, fix, track, target, engage and assess (F2T2EA) requirements supporting Space Superiority activities. Additionally funding provides for developmental intelligence collection to support new capability acquisition and development. This project funds transportable intelligence collection and analysis capabilities that are modular (plug-and-play), and can keep pace with technological advances and emerging threats. It provides intelligence support systems for Space Situational Awareness activities that provide the requisite current and predictive knowledge of space events and threat conditions and intelligence support to Space Protection Programs by providing architectural survivability analysis of critical mission assets for mission assurance. Additionally, funding supports phased threat system analysis and studies (A&S), test support, lab equipment, and Material Acquisition and Exploitation (MAE) for system development and vulnerability/ susceptibility assessments to support tactics, techniques and procedures (TTP) development. Also funded are future threat technology studies necessary for mission area success and achievement of space superiority, helping preserve the US space advantage across all domains.

This program is in Budget Activity 7, Operational System Development, because it includes development efforts to upgrade systems that have been fielded.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Develop transportable and fixed collection and analysis capability	8.866	0.000	0.000
<b>Description:</b> Develop transportable and fixed intelligence collection and analysis capabilities that are modular (plug-and-play), and can keep pace with technological advances and emerging threats.			
FY 2012 Accomplishments: Continued Space Superiority and Space Control R&D intelligence support; architecture upgrade support to Space Situation Awareness, Space Protection Program & Space Superiority; data analysis and product development for R&D deployment activities; support for testing and data collection.			
Accomplishments/Planned Programs Subtotals	8.866	0.000	0.000
		·	

PE 0301400F: Space Superiority Intelligence Air Force

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
3600: Research, Development, Test & Evaluation, Air Force	PE 0301400F: Space Superiority	670374: Electronic Combat Spt, C3
BA 7: Operational Systems Development	Intelligence	Protection/Multi-Mission, Technology and
		Spt

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

		<del></del>	FY 2014	FY 2014	FY 2014					<b>Cost To</b>	
Line Item	FY 2012	FY 2013	Base	000	<u>Total</u>	FY 2015	FY 2016	FY 2017	<b>FY 2018</b>	Complete	<b>Total Cost</b>
• None: None	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.000

## **Remarks**

## D. Acquisition Strategy

All contracts funded in this program will be awarded using competitive procedures to the maximum extent possible.

## 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.

PE 0301400F: Space Superiority Intelligence Air Force

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0301400F: Space Superiority

Intelligence

**PROJECT** 

670374: Electronic Combat Spt, C3

DATE: April 2013

Protection/Multi-Mission, Technology and

Spt

Product Developmer	nt (\$ in Mi	illions)		FY 2	2012	FY 2	2013	FY 2 Ba		FY 2	2014 CO	FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Space Superiority and R&D intelligence Development	Various	Various:,	-	1.894	Nov 2011	0.000		0.000		-		0.000	0.000	1.894	4.399
Architecture upgrades to SSA, SPP, and Space Superiority	Various	Various:,	-	2.587	Nov 2011	0.000		0.000		-		0.000	0.000	2.587	4.188
Data analysis and product development for R&D	Various	Various:,	-	3.444	Nov 2011	0.000		0.000		-		0.000	0.000	3.444	8.793
Deployment testing and data collection	Various	Various:,	-	0.519	Nov 2011	0.000		0.000		-		0.000	0.000	0.519	1.019
		Subtotal	0.000	8.444		0.000		0.000		0.000		0.000	0.000	8.444	18.399

#### Remarks

Contract activity will continue in FY13 under project 67A051, Space Superiority - Advanced Intelligence Systems.

Support (\$ in Millions	s)			FY 2	2012	FY 2	:013	FY 2 Ba	-	FY 2	2014 CO	FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
		Subtotal	0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

Test and Evaluation (	(\$ in Milli	ons)		FY 2	2012	FY 2	2013	FY 2 Ba		FY 2		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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	0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

PE 0301400F: Space Superiority Intelligence

Air Force

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force

3600: Research, Development, Test & Evaluation, Air Force

BA 7: Operational Systems Development

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PE 0301400F: Space Superiority

Intelligence

**PROJECT** 

670374: Electronic Combat Spt, C3

DATE: April 2013

Protection/Multi-Mission, Technology and

Spt

Management Service	es (\$ in M	illions)		FY 2	2012	FY 2	2013	FY 2 Ba		FY 2	2014 CO	FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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:,	-	0.422	Nov 2011	0.000		0.000		-		0.000	0.000	0.422	
		Subtotal	0.000	0.422		0.000		0.000		0.000		0.000	0.000	0.422	
			All Prior					FY 2	2014	FY 2	2014	FY 2014	Cost To	Total	Target Value of

	All Prior Years	FY 2	012	FY 2	2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To	Total Cost	Target Value of Contract
Project Cost Totals	0.000	8.866		0.000		0.000	0.000	0.000	0.000	8.866	

Remarks

PE 0301400F: Space Superiority Intelligence Air Force

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UNCLASSIFIED Exhibit R-4. RDT&E Schedule Profile: PB 2014 Air Force DATE: April 2013 **R-1 ITEM NOMENCLATURE** APPROPRIATION/BUDGET ACTIVITY **PROJECT** 3600: Research, Development, Test & Evaluation, Air Force PE 0301400F: Space Superiority 670374: Electronic Combat Spt, C3 BA 7: Operational Systems Development Intelligence Protection/Multi-Mission, Technology and Spt SSI Schedule **U.S. AIR FORCE** FY12 FY13 **FY14** FY15 FY16 FY17 FY18 Space Superiority & R&D Intel Support Architecture Upgrades Supporting SSA, SPP, and Space Superiority Mobile Phase 1 - Antenna Updates -- Digital Record Capabilities -- Comm Updates/New Paths Phase 2 - Technology Migration -- Processors -- Analysis Tools Data Analysis and Product

Intelligence Support Space Superiority & R&D Intel Support Deployment support for Testing and Data

Collection Concept activities Production / fielding

Development for R& D

Design / development Operations / sustainment

Integration / test

Key Event △ Contract Award

PE 0301400F: Space Superiority Intelligence

Air Force

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air ForceDATE: April 2013APPROPRIATION/BUDGET ACTIVITYR-1 ITEM NOMENCLATUREPROJECT3600: Research, Development, Test & Evaluation, Air ForcePE 0301400F: Space Superiority670374: Electronic Combat Spt, C3BA 7: Operational Systems DevelopmentIntelligenceProtection/Multi-Mission, Technology and Spt

## Schedule Details

	St	art	Eı	nd
Events	Quarter	Year	Quarter	Year
Space Superiority R&D intelligence development	1	2012	4	2012
Architecture upgrade for SSA, SPP, and Space Superiority	1	2012	4	2012
Phase 1	1	2012	4	2012
Phase 2	1	2012	4	2012
Data analysis and product development for R&D intelligence	1	2012	4	2012
Deployment testing and data collection	1	2012	4	2012

PE 0301400F: Space Superiority Intelligence

Air Force

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APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0301400F: Space Superiority Intelligence				PROJECT 67A051: Space Superiority - Advanced Intelligence Systems			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
67A051: Space Superiority - Advanced Intelligence Systems	-	0.000	12.056	12.197	-	12.197	12.371	12.550	12.763	12.992	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		

<sup>\*</sup>FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force

#### Note

Air Force

In FY2013, all PE0301400F RDT&E, AF funds were transferred into Project 67A051, Space Superiority -- Advanced Intelligence Systems to separate it from unrelated projects.

## A. Mission Description and Budget Item Justification

Provides Electronic Support (ES) for key find, fix, track, target, engage and assess (F2T2EA) requirements supporting Space Superiority activities. Funds developmental intelligence collection to support new capability acquisition and development. This project also funds transportable intelligence collection and analysis capabilities that are modular (plug-and-play), and can keep pace with technological advances and emerging threats. It provides intelligence support systems for Space Situational Awareness activities that provide the requisite current and predictive knowledge of space events and threat conditions and intelligence support to Space Protection Programs by providing architectural survivability analysis of critical mission assets for mission assurance. It also supports phased threat system analysis and studies (A&S), test support, lab equipment, and Material Acquisition and Exploitation (MAE) for system development and vulnerability/susceptibility assessments to support tactics, techniques and procedures (TTP) development and future threat technology studies necessary for mission area success and achievement of space superiority, and to preserve the US space advantage across all domains. This program is in Budget Activity 7, Operational System Development, because it includes development efforts to upgrade systems that have been fielded.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Advanced Intelligence Systems for Space Superiority	0.000	12.056	12.197
Description: Develop transportable and fixed collection and analysis capability.			
FY 2012 Accomplishments: N/A			
FY 2013 Plans:			

PE 0301400F: Space Superiority Intelligence

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R-1 Line #179

DATE: April 2013

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	<b>PROJECT</b>	
3600: Research, Development, Test & Evaluation, Air Force	PE 0301400F: Space Superiority	67A051: S	pace Superiority - Advanced
BA 7: Operational Systems Development	Intelligence	Intelligence	e Systems

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Continuing Space Superiority and Space Control R&D intelligence support; architecture upgrade support to Space Situation Awareness, Space Protection Program & Space Superiority; data analysis and product development for R&D deployment activities; support for testing and data collection.			
FY 2014 Plans: Will continue Space Superiority and Space Control R&D intelligence support; architecture upgrade support to Space Situation Awareness, Space Protection Program & Space Superiority; data analysis and product development for R&D deployment activities; support for testing and data collection.			
Accomplishments/Planned Programs Subtotals	0.000	12.056	12.197

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

			FY 2014	FY 2014	FY 2014					Cost To	
<u>Line Item</u>	FY 2012	FY 2013	<b>Base</b>	OCO	<u>Total</u>	FY 2015	FY 2016	FY 2017	FY 2018	<b>Complete</b>	<b>Total Cost</b>
None: None	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.000

#### Remarks

## D. Acquisition Strategy

All contracts funded in this program will be awarded using competitive procedures to the maximum extent possible.

## 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.

PE 0301400F: Space Superiority Intelligence Air Force

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DATE: April 2013 Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force **R-1 ITEM NOMENCLATURE PROJECT** APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force PE 0301400F: Space Superiority 67A051: Space Superiority - Advanced Intelligence Systems BA 7: Operational Systems Development Intelligence FY 2014 FY 2014 FY 2014 Product Development (\$ in Millions) FY 2012 FY 2013 Base oco Total Contract Target Method Performing All Prior Award Award Award Award **Cost To** Total Value of **Cost Category Item** & Type Activity & Location Years Cost Date Date Cost Date Cost Date Complete Cost Contract Cost Cost Space Superiority and R&D intelligence 0.000 2.738 Nov 2012 2.758 Nov 2013 2.758 Continuing Continuing TBD Various Various:, Development Architecture upgrades to SSA, SPP, and Space Various Various:. 0.000 3.539 Nov 2012 3.580 Nov 2013 3.580 Continuing Continuing TBD Superiority Data analysis and product TBD Various Various:. 0.000 4.710 Nov 2012 4.765 Nov 2013 4.765 Continuing Continuing development for R&D Intelligence systems Various Various:. 0.000 0.639 Nov 2012 0.647 Nov 2013 0.647 Continuing Continuing TBD testing and data collection 0.000 0.000 0.000 Subtotal 11.626 11.750 11.750 FY 2014 FY 2014 FY 2014 Support (\$ in Millions) FY 2012 FY 2013 Base oco Total Contract Target Method Performing All Prior Award Award Award Award Cost To **Total** Value of Cost **Cost Category Item** & Type **Activity & Location** Years Date Cost Date Cost Date Cost Date Cost Complete Cost Contract Subtotal 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 FY 2014 FY 2014 FY 2014 Test and Evaluation (\$ in Millions) FY 2012 FY 2013 Base oco Total Contract Target Cost To Method Performing All Prior Award Award Award Award Total Value of **Cost Category Item** & Type **Activity & Location** Years Cost Date Cost Date Cost Date Cost Date Cost Complete Cost Contract Subtotal 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 FY 2014 FY 2014 FY 2014 Management Services (\$ in Millions) FY 2012 FY 2013 Base oco Total Contract Target Method Performing All Prior Award Award Cost To Value of Award Award Total Activity & Location Cost Category Item & Type Years Cost Date Cost Date Cost Date Cost Date Cost Complete Cost Contract **Program Management** Jan 2013 0.447 Nov 2013 0.447 Continuing Continuing Various Various:, 0.000 0.430 TBD Administration (PMA)

PE 0301400F: Space Superiority Intelligence

Air Force

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0.430

0.447

0.000

Subtotal

0.000

R-1 Line #179

0.000

0.447

Exhibit R-3, RDT&E Project Cost Analysis: PB:	2014 Air Fo	orce					DA	TE: April 2	013	
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: Research, Development, Test & Evaluation, BA 7: Operational Systems Development	Air Force			R-1 ITEM NON PE 0301400F: Intelligence			PROJECT 67A051: Space Intelligence Sy	•	y - Advai	nced
	All Prior Years	FY 2	012	FY 2013	FY 2 Ba	 FY 2				Target Value of Contract
Project Cost Totals	0.000	0.000		12.056	12.197	0.000	12.	197		

Remarks

PE 0301400F: Space Superiority Intelligence

Air Force

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0301400F: Space Superiority

Intelligence

**PROJECT** 

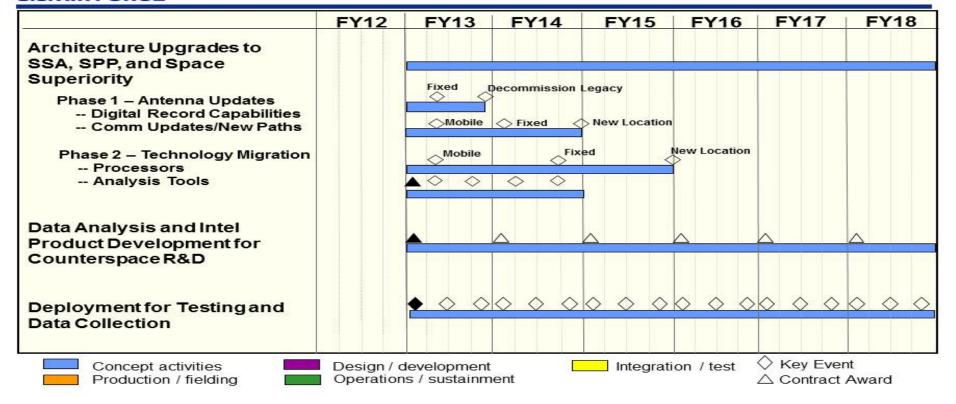
67A051: Space Superiority - Advanced

DATE: April 2013

Intelligence Systems



# SSI Schedule



PE 0301400F: Space Superiority Intelligence Air Force

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

3600: Research, Development, Test & Evaluation, Air Force PE 0301400F: Space Superiority 67A051: Space Superiority - Advanced

BA 7: Operational Systems Development Intelligence Systems

## Schedule Details

	St	art	End		
Events	Quarter	Year	Quarter	Year	
Architecture upgrade for SSA, SPP, and Space Superiority	1	2013	4	2018	
Phase 1	1	2013	4	2014	
Phase 2	1	2013	4	2015	
Data analysis and product development for R&D intelligence	1	2013	4	2018	
Deployment for testing and data collection	1	2013	4	2018	

PE 0301400F: Space Superiority Intelligence Air Force

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