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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 0305940F / <i>Space Situation Awareness Operations</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	-	11.017	20.016	35.002	0.000	35.002	22.803	6.619	5.352	5.351	Continuing	Continuing
670004: <i>Joint Interagency Combined Space Operations Center</i>	-	0.000	0.000	14.852	0.000	14.852	6.933	1.981	1.982	1.982	Continuing	Continuing
67A017: <i>Sensor Service Life Extension Program</i>	-	11.017	20.016	20.150	0.000	20.150	15.870	4.638	3.370	3.369	0.000	78.430

Note

This program, BA 07 PE 0305940F, project 670004, JICSpOC Infrastructure, is a new start.

This program, BA 07 PE 0305940F, project 67A017, Ground Radar Upgrades, is a new start.

A. Mission Description and Budget Item Justification

Space Situational Awareness (SSA) is knowledge of all aspects of space related to operations. As the foundation for space control, SSA encompasses surveillance of all space objects and activities; detailed reconnaissance of specific space assets; monitoring space environmental conditions; monitoring cooperative space assets; gathering intelligence on adversary space operations; and conducting integrated command, control, communications, processing, analysis, dissemination, and archiving activities. This program element fields, upgrades, operationalizes, operates and maintains Air Force sensors and information integration capabilities within the SSA network while companion program element 0604425F, Space Situational Awareness Systems, develops new network sensors and improved information integration capabilities across the network. Activities funded in this program element (0305940F) focus on surveillance of objects in earth orbit to aid tasks including satellite tracking; space object identification; tracking and cataloging; satellite attack warning; notification of satellite flyovers to U.S. forces; space treaty monitoring; and technical intelligence gathering.

The Sensor Life Extension Programs (SLEPs) project funds efforts to upgrade, operationalize and extend the life of operational Space Situational Awareness (SSA) sensors, as needed. These SLEPs include, but are not limited to, programs which extend the serviceable life of assets and maintain critical capability by replacing aging and increasingly unsustainable components with modern and sustainable equipment. SLEPs may incorporate equipment which inherently includes technological advances resulting in enhanced or increased capabilities. In addition, the SLEP itself may be designed to increase capabilities not currently realized. The on-going Ground-based Electro Optics Deep Space Surveillance (GEODSS) Phase II is representative of sensor system upgrades in the SLEP project. As the need arises in the execution year, funds in this project may be used to begin sensor life extension programs on additional efforts.

The SSA Ops Demo creates a survivable architecture which provides overlapping, assured, and viable surveillance options for executing simultaneous safety of flight and event response. The demonstration develops software modifications to exploit data from legacy systems.

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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 0305940F / <i>Space Situation Awareness Operations</i>
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Beginning in FY17 this program element will begin fielding and sustaining the Joint Interagency Combined Space Operations Center (JICSpOC) infrastructure in response to US Strategic Command Joint Emergent Operational Need (ST-0006). The JICSpOC seeks to improve unity of effort and information sharing across the national security space community to effectively respond to potential future space threat events and will have the capability to develop, test, and integrate new space system tactics, techniques and procedures (TTPs) in support of both DoD and Intelligence Community operations.

Also in FY17 this program element will begin a series of Ground Radar Upgrades designed to improve the sensitivity, search capability and CONOPS of existing SSA sensors to better support fire control timelines.

These efforts are in Budget Activity 7, Operational System Development, because they develop modifications for operational SSA sensors.

B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	11.408	20.077	8.583	0.000	8.583
Current President's Budget	11.017	20.016	35.002	0.000	35.002
Total Adjustments	-0.391	-0.061	26.419	0.000	26.419
• Congressional General Reductions	-0.391	-0.061			
• Congressional Directed Reductions	0.000	0.000			
• 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	0.000	0.000			
• Other Adjustments	0.000	0.000	26.419	0.000	26.419

Change Summary Explanation

FY17: +2.8 for Space Control BMC3; +2.172 internal realignment of funding; +\$15.0M to sustain JICSpOC infrastructure; +\$10M SSA Ground Radar Upgrades; -\$3.6M to account for availability of prior year balances.

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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 0305940F / <i>Space Situation Awareness Operations</i>				Project (Number/Name) 670004 / <i>Joint Interagency Combined Space Operations Center</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
670004: <i>Joint Interagency Combined Space Operations Center</i>	-	0.000	0.000	14.852	0.000	14.852	6.933	1.981	1.982	1.982	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 07 PE 0305940F, project 670004, JICSpOC Infrastructure, is a new start.

A. Mission Description and Budget Item Justification

The Joint Interagency Combined Space Operations Center (JICSpOC) seeks to improve unity of effort and information sharing across the national security space community to effectively respond to potential future space threat events. The JICSpOC requires effective battle management, command and control (BMC2) to integrate and synchronize space and cyber forces and the intelligence community with efforts across all domains and to execute unity of effort through the core command and control functions of: situation monitoring, planning, decision making, space force management and space force direction. The JICSpOC will have the capability to develop, test, and integrate new space system tactics, techniques and procedures (TTPs) in support of both DoD and Intelligence Community (IC) operations. Lessons learned from JICSpOC experimentation will inform requirements development for future BMC2 architectures. This effort is a new start in FY17 in response to US Strategic Command Joint Emergent Operational Need (ST-0006).

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

	FY 2015	FY 2016	FY 2017
Title: JICSpOC Infrastructure	0.000	0.000	14.852
Description: Develop and field space battle management, command and control (BMC2) infrastructure.			
FY 2015 Accomplishments: N/A			
FY 2016 Plans: N/A			
FY 2017 Plans: Design, develop and field a communications architecture and suite of decision support and analytical tools to support space BMC2.			
Accomplishments/Planned Programs Subtotals	0.000	0.000	14.852

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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 0305940F / <i>Space Situation Awareness Operations</i>	Project (Number/Name) 670004 / <i>Joint Interagency Combined Space Operations Center</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>
• N/A: N/A	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-

Remarks

D. Acquisition Strategy

This acquisition will be executed through existing contracts (e.g. Space Security and Defense Program (SSDP) and SMC/SY) and providing funds to other AF/DoD organizations to execute on their contracts.

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				R-1 Program Element (Number/Name)				Project (Number/Name)							
3600 / 7				PE 0305940F / Space Situation Awareness Operations				670004 / Joint Interagency Combined Space Operations Center							
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
SYSTEM ENGINEERING AND INTEGRATION	Various	VARIOUS : COLORADO SPRINGS, CO	-	0.000		0.000		3.425	Oct 2016	0.000		3.425	Continuing	Continuing	-
SPACE OPERATIONAL DEVELOPMENT CENTER DESIGN AND EXPERIMENTATION	Various	VARIOUS : COLORADO SPRINGS, CO	-	0.000		0.000		5.852	Oct 2016	0.000		5.852	Continuing	Continuing	-
COMMUNICATIONS ARCHITECTURE DESIGN AND DEVELOPMENT	Various	VARIOUS : COLORADO SPRINGS, CO	-	0.000		0.000		3.575	Oct 2016	0.000		3.575	Continuing	Continuing	-
Subtotal			-	0.000		0.000		12.852		0.000		12.852	-	-	-
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
Subtotal			-	-		-		-		-		-	-	-	-
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
Subtotal			-	-		-		-		-		-	-	-	-
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
A&AS	Various	VARIOUS : COLORADO SPRINGS, CO	-	0.000		0.000		0.500	Oct 2016	0.000		0.500	Continuing	Continuing	-

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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 0305940F / <i>Space Situation Awareness Operations</i>				Project (Number/Name) 670004 / <i>Joint Interagency Combined Space Operations Center</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
FFRDC	SS/FP	MITRE : COLORADO SPRINGS, CO	-	0.000		0.000		1.500	Oct 2016	0.000		1.500	Continuing	Continuing	-
Subtotal			-	0.000		0.000		2.000		0.000		2.000	-	-	-
			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			-	0.000		0.000		14.852		0.000		14.852	-	-	-
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 0305940F / <i>Space Situation Awareness Operations</i>	Project (Number/Name) 670004 / <i>Joint Interagency Combined Space Operations Center</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
JICSpOC Infrastructure Development																												
JICSpOC Experimentation																												

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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 0305940F / <i>Space Situation Awareness Operations</i>	Project (Number/Name) 670004 / <i>Joint Interagency Combined Space Operations Center</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
JICSpOC Infrastructure Development	1	2017	4	2020
JICSpOC Experimentation	1	2017	4	2020

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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 0305940F / <i>Space Situation Awareness Operations</i>				Project (Number/Name) 67A017 / <i>Sensor Service Life Extension Program</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
67A017: <i>Sensor Service Life Extension Program</i>	-	11.017	20.016	20.150	0.000	20.150	15.870	4.638	3.370	3.369	0.000	78.430
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 07 PE 0305940F, project 67A017, Ground Radar Upgrades, is a new start.

Project Eglin SLEP completed in FY15.

A. Mission Description and Budget Item Justification

The Sensor Life Extension Programs (SLEPs) project funds efforts to upgrade, operationalize and extend the life of operational Space Situational Awareness (SSA) sensors, as needed. These SLEPs include, but are not limited to, programs which extend the serviceable life of assets and maintain critical capability by replacing aging and increasingly unsustainable components with modern and sustainable equipment. SLEPs may incorporate equipment which inherently includes technological advances resulting in enhanced or increased capabilities. In addition, the SLEP itself may be designed to increase capabilities not currently realized. The on-going Ground-based Electro Optical Deep Space Surveillance (GEODSS) Phase II is representative of sensor system upgrades in the SLEP project. As the need arises in the execution year, funds in this project may be used to begin sensor life extension programs on additional efforts.

The SSA Ops Demo creates a survivable architecture which provides overlapping, assured, and viable surveillance options for executing simultaneous safety of flight and event response. The demonstration develops software modifications to exploit data from legacy systems and demonstrate real-time SSA search functionality, multiple level security processing of SSA data and automated cross-sensor tipping and cueing around the globe.

Ground Based Radar Upgrades improve the sensitivity, search capabilities and CONOPS of existing SSA sensors to better support custody and fire control timelines.

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

	FY 2015	FY 2016	FY 2017
Title: Eglin SLEP	1.412	-	-
Description: The Eglin SLEP extends the operational life of the AN/FPS-85 Radar, located at Eglin AFB, through 2018. The program performs upgrades to the hardware and software of the radar system to maintain system performance, operability and sustainment to support USSTRATCOM's Space Surveillance Network (SSN) near earth and deep space metric tracking and space object identification (SOI) missions.			
FY 2015 Accomplishments:			

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Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0305940F / <i>Space Situation Awareness Operations</i>	Project (Number/Name) 67A017 / <i>Sensor Service Life Extension Program</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2015	FY 2016	FY 2017
Corrected deficiencies from Development Test and Evaluation (DT&E). Conducted Force Development Evaluation (FDE) and Trial Period. Achieved Operational Acceptance and began contract closeout.				
<p>Title: SSA Ops Demo</p> <p>Description: The SSA Operational Demonstration creates a survivable architecture which provides overlapping, assured, and viable surveillance options for executing simultaneous safety of flight and event response. The demonstration develops software modifications to exploit data from legacy systems and demonstrate real-time SSA search functionality, multiple level security processing of SSA data and automated cross-sensor tipping and cueing around the globe.</p> <p>FY 2016 Plans: Develop tip and cue software upgrades and begin preparations for follow-on test/demonstration.</p> <p>FY 2017 Plans: Continue to develop tip and cue software upgrades and conduct follow-on test/demonstration.</p>		-	5.960	10.350
<p>Title: GEODSS SLEP</p> <p>Description: The GEODSS effort extends the operational life of the Ground Based Electro-Optical Deep Space Surveillance System (GEODSS). It replaces the aging Sensor Controller Group (SCG), Data Processing Group (DPG), Data Communications Group (DCG), and other unsupportable subsystems as required to maintain Space Surveillance Network (SSN) tracking capabilities for objects in deep space and geosynchronous orbits.</p> <p>FY 2015 Accomplishments: Awarded contract for GEODSS SLEP Phase II, which replaces the DPG.</p> <p>FY 2016 Plans: Conduct Preliminary Design Review (PDR) and obtain milestone B decision to enter Engineering and Manufacturing Development (EMD). Begin EMD, conduct Critical Design Review (CDR), purchase hardware, conduct software development and begin integration.</p> <p>FY 2017 Plans: Continue software development and conduct integration and development testing for GEODSS SLEP Phase II.</p>		9.605	14.056	0.000
<p>Title: Ground Radar Upgrades</p> <p>Description: This effort improves the sensitivity, search capability and CONOPS of existing SSA sensors to better support fire control timelines</p> <p>FY 2017 Plans:</p>		-	-	9.800

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
Begin prototyping L-Band solid-state transmitter, operationalize UHF transmitter/receiver upgrade and field a COTS-based L-band high voltage power supply.			
Accomplishments/Planned Programs Subtotals	11.017	20.016	20.150

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	Total Cost
• OPAF: BA03: Line Item #: 836790: <i>Space Mods Space</i>	3.124	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.296

Remarks
The procurement funds will be used to acquire, install and test mod kits for GEODSS sites 2 and 3.

D. Acquisition Strategy
The GEODSS SLEP was awarded as an Engineering Change Proposal on the SENSOR contract. The GEODSS SLEP uses a phased development and deployment strategy to reduce risk.

Space Situational Awareness (SSA) Ops Demo and Ground Based Radar Upgrades - Acquisition strategies include using a number of existing SY contract vehicles (e.g. SENSOR) and providing funds to other AF/DOD organizations to execute on their contracts.

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 0305940F / <i>Space Situation Awareness Operations</i>	Project (Number/Name) 67A017 / <i>Sensor Service Life Extension Program</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			
Eglin architecture development and life extension	C/CPAF	Exelis/TBD : Colorado Springs, CO	-	0.020	Dec 2014	0.000		0.000		0.000		0.000	0.000	0.020	-
GEODSS design, development and life extension	C/CPIF	Exelis/TBD : Colorado Springs, CO	-	8.707	Mar 2015	12.848	Feb 2016	0.000		0.000		0.000	Continuing	Continuing	-
SSA Ops Demo	C/TBD	Exelis/TBD : Colorado Springs, CO	-	0.000		3.796	May 2016	7.935	Mar 2017	0.000		7.935	Continuing	Continuing	-
SSA Ops Enterprise Systems Engineering and Integration	Various	MITRE : Various	-	0.000		0.000		0.700		0.000		0.700	Continuing	Continuing	-
Enterprise Systems Engineering and Integration	Various	MITRE : Various	-	0.336	Jan 2015	0.350	Jan 2016	0.000		0.000		0.000	Continuing	Continuing	-
L-Band Radar Upgrades	Various	MIT/LL : Various, MA	-	0.000		0.000		3.300	Oct 2016	0.000		3.300	Continuing	Continuing	-
UHF Radar Transmitter/ Receiver Engineering and Integration	C/TBD	Exelis/TBD : Colorado Springs, CO	-	0.000		0.000		6.000	Oct 2016	0.000		6.000	Continuing	Continuing	-
Subtotal			-	9.063		16.994		17.935		0.000		17.935	-	-	-

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			
Subtotal			-	-		-		-		-		-	-	-	-

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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 0305940F / <i>Space Situation Awareness Operations</i>	Project (Number/Name) 67A017 / <i>Sensor Service Life Extension Program</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Eglin Phase I CSPU IOC	1	2015	2	2015
GEODSS Phase II Development	2	2015	2	2018
SSA Ops Demo	2	2016	4	2021
Ground Radar Upgrades	1	2017	4	2019

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