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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603287F: <i>Physical Security Equipment</i>
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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	1.659	3.615	3.576	0.000	3.576	3.755	3.765	3.945	4.026	Continuing	Continuing
645121: <i>Physical Security Equipment</i>	1.659	3.615	3.576	0.000	3.576	3.755	3.765	3.945	4.026	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program is a budget activity level 4 based on the concept/technology development activities ongoing within the program. The purpose of this program is to develop physical security equipment (PSE) systems, to include Force Protection, for all DoD components. This program supports the protection of tactical, fixed, and nuclear weapons systems, DoD personnel and DoD facilities. The funds are used to provide PSE RDT&E for individual Service and joint PSE requirements. The PSE program is organized so that members of the physical security equipment action group (PSEAG), which consist of the Army, Navy, Air Force, and Defense Threat Reduction Agency (DTRA) representatives monitors, directs and prioritizes potential and existing PSE programs. OSD program oversight is provided by the Office of the Under Secretary of Defense, Acquisition, Technology and Logistics (AT&L) and the Assistant Secretary of Defense for Intelligence (USD(I)). With few exceptions, each Service sponsors RDT&E efforts for technologies and programs that have multi-service application. This program element supports the Army's advanced engineering development of Interior and Exterior Detection, Security Lighting, Security Barriers and Security Display Units. In a like manner, the program element also supports the Air Force's PSE RDT&E effort in the areas of Exterior Detection/Surveillance, Entry Control, Delay/Denial, Tactical Systems and Airborne Intrusion. Finally, the program supports Navy RDT&E efforts in the areas of Waterside Security, Explosive Detection, and improved technology for Locks, Safes and Vaults. Beginning with FY 1997, this PE includes funding for Force Protection Commercial-Off-The-Shelf (FP COTS) evaluation and testing, which has received focus since the 1996 Khobar Towers terrorist bombing incident. The FP COTS testing applies to all available technologies, which are considered effective for DoD physical security use.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force	DATE: February 2010
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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603287F: <i>Physical Security Equipment</i>
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B. Program Change Summary (\$ in Millions)

	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>
Previous President's Budget	1.672	3.623	0.000	0.000	0.000
Current President's Budget	1.659	3.615	3.576	0.000	3.576
Total Adjustments	-0.013	-0.008	3.576	0.000	3.576
• 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	-0.013	0.000			
• Other Adjustments	0.000	-0.008	3.576	0.000	3.576

Change Summary Explanation

FY11: The FY 2010 President's Budget submittal did not reflect FY 2011 through FY 2015 funding. Therefore, explanation of changes between the two budget positions cannot be made in a relevant manner.

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				R-1 ITEM NOMENCLATURE PE 0603287F: <i>Physical Security Equipment</i>				PROJECT 645121: <i>Physical Security Equipment</i>			
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
645121: <i>Physical Security Equipment</i>	1.659	3.615	3.576	0.000	3.576	3.755	3.765	3.945	4.026	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

This program is a budget activity level 4 based on the concept/technology development activities ongoing within the program. The purpose of this program is to develop physical security equipment (PSE) systems, to include Force Protection, for all DoD components. This program supports the protection of tactical, fixed, and nuclear weapons systems, DoD personnel and DoD facilities. The funds are used to provide PSE RDT&E for individual Service and joint PSE requirements. The PSE program is organized so that members of the physical security equipment action group (PSEAG), which consist of the Army, Navy, Air Force, and Defense Threat Reduction Agency (DTRA) representatives monitors, directs and prioritizes potential and existing PSE programs. OSD program oversight is provided by the Office of the Under Secretary of Defense, Acquisition, Technology and Logistics (AT&L) and the Assistant Secretary of Defense for Intelligence (USD(I)). With few exceptions, each Service sponsors RDT&E efforts for technologies and programs that have multi-service application. This program element supports the Army's advanced engineering development of Interior and Exterior Detection, Security Lighting, Security Barriers and Security Display Units. In a like manner, the program element also supports the Air Force's PSE RDT&E effort in the areas of Exterior Detection/Surveillance, Entry Control, Delay/Denial, Tactical Systems and Airborne Intrusion. Finally, the program supports Navy RDT&E efforts in the areas of Waterside Security, Explosive Detection, and improved technology for Locks, Safes and Vaults. Beginning with FY 1997, this PE includes funding for Force Protection Commercial-Off-The-Shelf (FP COTS) evaluation and testing, which has received focus since the 1996 Khobar Towers terrorist bombing incident. The FP COTS testing applies to all available technologies, which are considered effective for DoD physical security use.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: FORCE PROTECTION/TACTICAL SECURITY EQUIPMENT - Refined, research, and test technology for automated entry control systems. <i>FY 2009 Accomplishments:</i> In FY 2009: Awarded LKMD SDD contract. Conduct Production Qualification LKMD testing.	1.659	3.615	3.576	0.000	3.576

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force							DATE: February 2010				
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B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
<ul style="list-style-type: none"> - Continued to test, develop, and integrate equipment to improve security and access to facilities. - Began to develop the XML Wide Area Sensor. <p><i>FY 2011 OCO Plans:</i> In FY 2011 OCO: Not applicable</p>											
Accomplishments/Planned Programs Subtotals						1.659	3.615	3.576	0.000	3.576	
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 (1605): <i>Not Applicable</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 Not Applicable											
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: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603287F: <i>Physical Security Equipment</i>	PROJECT 645121: <i>Physical Security Equipment</i>
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Product Development (\$ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
HQ ESC (Air Force)	PO	CACI Chantilly, VA	1.659	3.615	Apr 2010	2.200		0.000		2.200	1.200	8.674	Continuing
PM-PSE (US Army)	MIPR	CACI Chantilly, VA	0.000	0.000		0.648		0.000		0.648	1.200	1.848	Continuing
CNO-N34 (US Navy)	WR	LockHeed Martin Reston, VA	0.000	0.000		0.488		0.000		0.488	1.200	1.688	Continuing
DTRA	Allot	Booz Allen Hamilton McClean, VA	0.000	0.000		0.240		0.000		0.240	1.200	1.440	Continuing
Test1	Reqn	L3 Com Arlington, VA	0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test2	TM	L3 Com Arlington, VA	0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test3	FFRDC	Booz Allen Hamilton McClean, VA	0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test4	BPA	LockHeed Martin Reston, VA	0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000
Subtotal			1.659	3.615		3.576		0.000		3.576	4.800	13.650	

Remarks

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force										DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				R-1 ITEM NOMENCLATURE PE 0603287F: <i>Physical Security Equipment</i>				PROJECT 645121: <i>Physical Security Equipment</i>					

Support (\$ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Testing1	C/FP	CACI Chantilly, VA	0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000
Testing2	SS/CPPIF	Booz Allen Hamilton McClean, VA	0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000
Testing3	TBD/FPI	L3 Com Arlington, VA	0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000
Testing 4	PO	L3 Com Arlington, VA	0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000
Subtotal			0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000

Remarks

Test and Evaluation (\$ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Testing5	C/CPFF	Booz Allen Hamilton McClean, VA	0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000
Testing6	SS/FFP	Booz Allen Hamilton McClean, VA	0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force **DATE:** February 2010

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Test and Evaluation (\$ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000

Remarks

Management Services (\$ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Test 36	C/FP	CACI Chantilly, VA	0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000
Subtotal			0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000

Remarks

Project Cost Totals	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
	1.659	3.615		3.576		0.000		3.576	4.800	13.650	

Remarks

Total Prior Years Cost may include only FY 2009 data.

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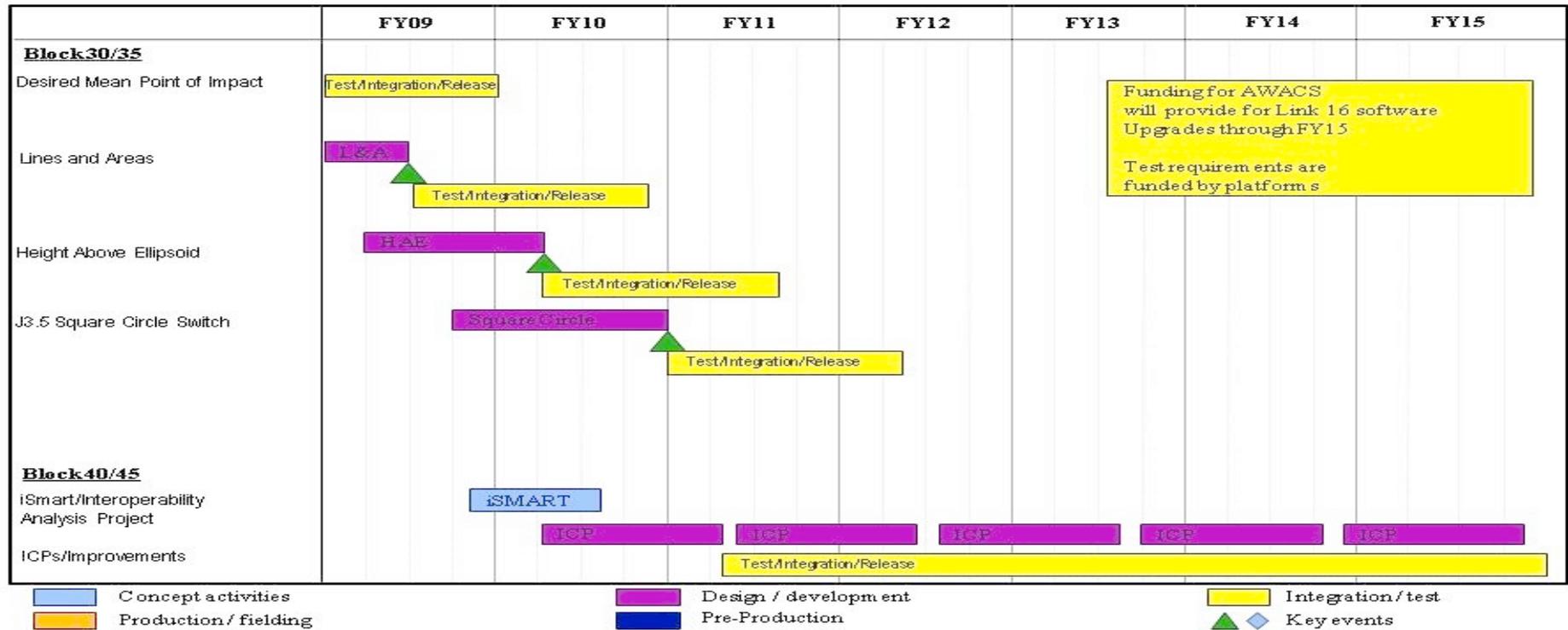
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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force		DATE: February 2010
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C2ISR Tactical Data Link (as of 31 Jul 09)



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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 4: *Advanced Component Development & Prototypes (ACD&P)*

R-1 ITEM NOMENCLATURE

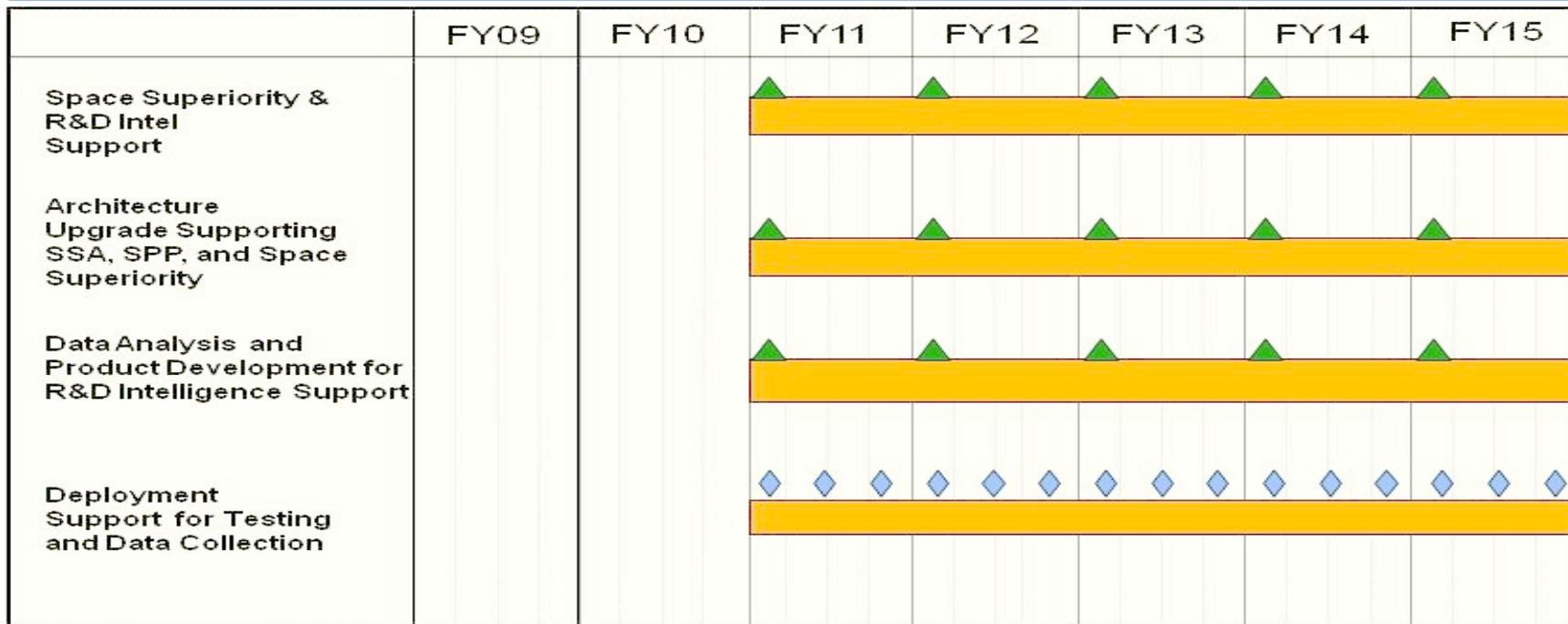
PE 0603287F: *Physical Security Equipment*

PROJECT

645121: *Physical Security Equipment*



Space Superiority Intelligence Program Schedule



Intelligence Support

Key Events
 Contract Award

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

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

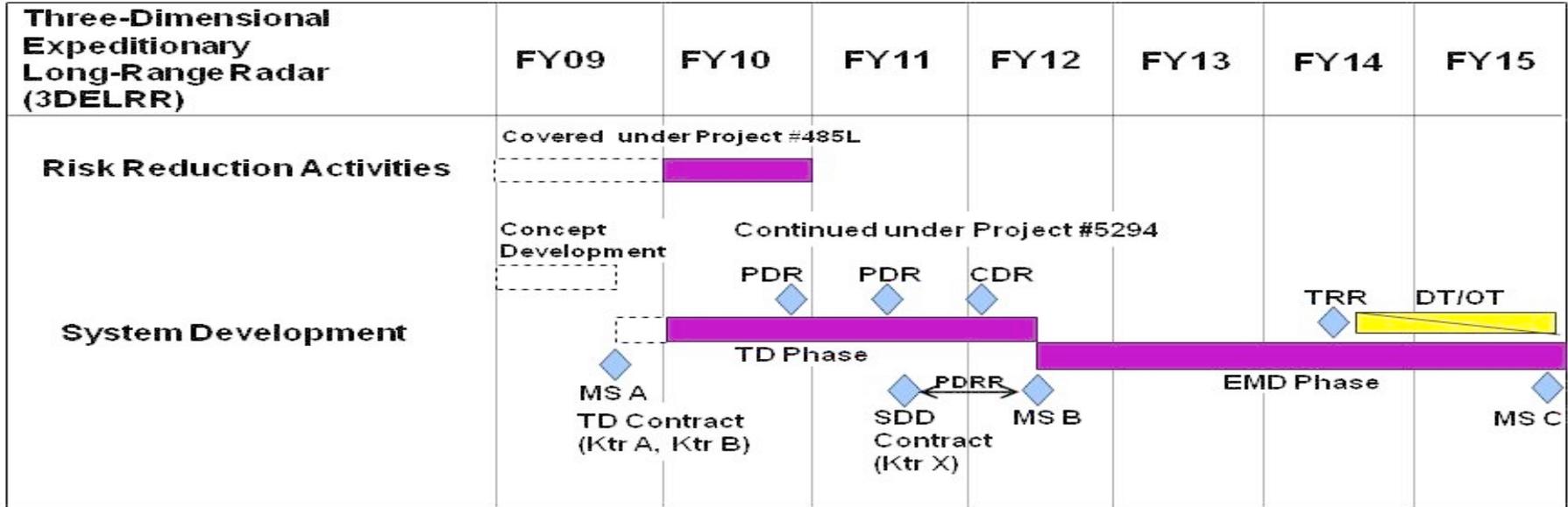
3600: *Research, Development, Test & Evaluation, Air Force*
 BA 4: *Advanced Component Development & Prototypes (ACD&P)*

R-1 ITEM NOMENCLATURE

PE 0603287F: *Physical Security Equipment*

PROJECT

645121: *Physical Security Equipment*



In FY09, Three-Dimensional Expeditionary Long-Range Radar (3DELRR) was included as part of Project 485L, Theater Air Control System Improvement (TACSI).

- Major Event/Milestone
- Design/Development
- Development Test/Operational Test (DT/OT)

- EMD: Engineering and Manufacturing Development
- Ktr: Contractor
- MS: Milestone
- PDRR: Preliminary Design and Risk Reduction
- SDD: System Design & Development
- TD: Technology Development
- TRR: Test Readiness Review

As of Aug 2009

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force		DATE: February 2010
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Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Conduct market survey for the TVSS	1	2009	3	2009
TVSS Prototype Design, Fabrication, & Integration	1	2009	4	2010
PAS Market Survey and Investigation	2	2009	2	2011
Continue TASS P3I efforts including the annunciator	3	2010	4	2010
Conduct a Leap Ahead assessment of current PSE technology	1	2009	4	2010
Follow-on Early User Appraisal for MDARS	3	2010	2	2011
Develop C3 integration of waterside Security Systems	1	2010	4	2011

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