

UNCLASSIFIED

PE NUMBER: 0308699F
 PE TITLE: Shared Early Warning System

Exhibit R-2, RDT&E Budget Item Justification	DATE May 2009
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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0308699F Shared Early Warning System
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Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	3.044	3.143	3.082	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
4838 Shared Early Warning System	3.044	3.143	3.082	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

(U) A. Mission Description and Budget Item Justification

The Shared Early Warning System (SEWS) is the result of Presidential foreign policy initiatives beginning in 1996. The SEWS continues to provide Theater Combatant Commanders and foreign nation partners direct operational benefit by improving the architectural design and equipment thereby providing enhanced mission capabilities (i.e., expanding coverage, integration with active defense systems, & radar integration,). Foreign partner arrangements are negotiated with individual countries on a bilateral basis to provide selected region-specific missile warning information. To enhance mission capability the SEWS program tests: the Integrated Broadcast Service (IBS) migration to Common Interactive Broadcast (CIB), mandatory crypto upgrades, SEWS integration with various radar systems, and the transition to "coalition-based" warning. SEWS utilizes Federally Funded Research & Development Centers (FFRDC), Engineering and Technology Acquisition Support Services (ETASS), and Advisory and Assistance Services (A&AS) contractors support design, development, and acquisition of a common SEWS architecture to enhance mission capability of existing and future partners; enhance development of a multi-lingual, web-based infrastructure to provide Pre-Launch Notification System information; site preparation for additional systems, as required, and posture for the design, development, and test of a Joint Data Exchange Center (JDEC) in Moscow, Russia.

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

This program is in Budget Activity 7 - Operational System Development, because it supports work on currently operating systems and/or upgrades still in engineering development.

(U) B. Program Change Summary (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget	3.127	3.152	3.134
(U) Current PBR/President's Budget	3.044	3.143	3.082
(U) Total Adjustments	-0.083	-0.009	
(U) Congressional Program Reductions			
Congressional Rescissions		-0.009	
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer	-0.083		
(U) <u>Significant Program Changes:</u>			

Exhibit R-2a, RDT&E Project Justification

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Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
4838 Shared Early Warning System	3.044	3.143	3.082	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Accomplishments/Planned Program			
(U) Continue SEWS design, development, and test efforts to include but not limited to: SEWS common architecture, SEWS initiatives as identified by theater commanders, investigate evolving technologies to enhance and posture for possible deployment of the JDEC system in Moscow and development of a multi-lingual, web-based infrastructure to provide Pre-Launch Notification System information and site preparation for additional systems, as required.	3.044	3.143	3.082
(U) Total Cost	3.044	3.143	3.082

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to Complete</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>								
(U) Other APPN										
(U) OPAF (PE 0308699F, Comm)		0.253	0.242						Continuing	TBD

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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0308699F Shared Early Warning System	PROJECT NUMBER AND TITLE 4838 Shared Early Warning System
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(U) **C. Other Program Funding Summary (\$ in Millions)**

Elect Mods)

(U) Operations and Maintenance AF	6.291	7.199	6.711		Continuing	TBD
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(U) **D. Acquisition Strategy**

The acquisition strategy builds on existing capabilities, using evolutionary acquisition and spiral development, to modernize and sustain SEWS.

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Exhibit R-3, RDT&E Project Cost Analysis

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BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE			
07 Operational System Development				0308699F Shared Early Warning System					4838 Shared Early Warning System			
(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>												
Lockheed Martin	C/CPAF	Colorado Springs, CO	13.573	1.105	Oct-07	1.021	Oct-08	1.050	Oct-09	Continuing	TBD	TBD
Navy	MIPR	San Diego, CA	1.391	0.336	Jan-08	0.346	Jan-09	0.350	Feb-10	Continuing	TBD	TBD
Various Ctrs/Gov Agencies	MIPR	Colorado Springs, CO	4.590	0.800	Jan-08	1.239	Jan-09	1.134	Jan-10	Continuing	TBD	TBD
Subtotal Product Development			19.554	2.241		2.606		2.534		Continuing	TBD	TBD
Remarks:												
(U) <u>Support</u>												
MITRE	SS/CPFF	Colorado Springs, CO	3.950	0.160	Oct-07	0.161	Oct-08	0.168	Oct-09	Continuing	TBD	TBD
ETASS	C/T&M	Colorado Springs, CO	6.152	0.575	Oct-07	0.351	Jan-09	0.365	Jan-10	Continuing	TBD	TBD
PMA	N/A	Colorado Springs, CO	1.162	0.068	Oct-07	0.025	Oct-08	0.015	Oct-09	Continuing	TBD	TBD
Subtotal Support			11.264	0.803		0.537		0.548		Continuing	TBD	TBD
Remarks:												
(U) Total Cost			30.818	3.044		3.143		3.082		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

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BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0308699F Shared Early Warning System

PROJECT NUMBER AND TITLE
4838 Shared Early Warning System



SEWS Program Schedule

U.S. AIR FORCE

Activity	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15
Spiral development of common system architecture								
<p>Schedule reflects planned software drops every six months, stemming from spiral development schedule and used to keep Combatant Commanders' SEWS capabilities in step with those acquired by partner nations.</p>								
Radiant Mercury 4.5.2 Upgrade				Installs complete				
GCCS 4.2 Preparation Study			Initial report			Final Report Delivered		
GCCS 4.2 Architecture Design								
GCCS 4.2 Procurement								

Concept activities
 Production / fielding

Design / development
 Pre-Production

Integration / test
 Key events

Exhibit R-4a, RDT&E Schedule Detail

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(U) Schedule Profile

(U) Spiral development of common system architecture

(U) Radiant Mercury 4.5.2 Upgrade

(U) GCCS 4.2 Preparation Study

FY 2008

1,3Q

4Q

FY 2009

1,3Q

FY 2010

1-3Q

1Q

1Q