PE NUMBER: 0604429F
PE TITLE: AIRBORNE ELECTRONIC ATTACK

Exhibit R-2, RDT&E Budget Item Justification

DATE: May 2009

BUDGET ACTIVITY: 05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE: 0604429F AIRBORNE ELECTRONIC ATTACK

	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	23.170	43.123	11.107	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
5192	Network & Sys -of-Sys Dev	23.170	43.123	11.107	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

(U) A. Mission Description and Budget Item Justification

This program element supports the development of the critical electronic attack capabilities, from technology demonstrations through transition to operational capability, for Air Force and joint operations to include the Global Strike and Persistent Global Attack Concepts of Operations (CONOPS). Based on the 2001 Joint Airborne Electronic Attack (AEA) Analysis of Alternatives (AoA) and the follow-on 2002 Joint Suppression of Enemy Air Defenses (Joint SEAD) presentation to OSD(AT&L), the AEA capability will consist of a number of components working together in a joint system of systems. The Joint SEAD presentation identified the Navy AEA components as the EA-6B Improved Capability (ICAP) III and EA-18G modified escort platforms and indicated the Air Force will be responsible for coordinating overall AEA system of systems requirements. AF component capabilities include the Miniature Air Launched Decoy (MALD) and its stand-in jammer variant called MALD-J, the EC-130H Compass Call Baseline 0 (formerly Block 35) configuration and Active Electronically Scanned Array (AESA) radar equipped aircraft, and potentially, recoverable unmanned stand-in and manned long range stand-off jammer platforms.

This program is included in budget activity 5, System Development and Demonstration, because of the development and/or testing associated with Airborne Electronic Attack.

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

		FY 2008	FY 2009	FY 2010
(U)	Previous President's Budget	23.826	34.279	53.310
(U)	Current PBR/President's Budget	23.170	43.123	11.107
(U)	Total Adjustments	-0.656	8.844	
(U)	Congressional Program Reductions		-0.039	
	Congressional Rescissions		-0.117	
	Congressional Increases		9.000	
	Reprogrammings			
	SBIR/STTR Transfer	-0.656		
(U)	Significant Program Changes:			
	FY09 $9M Congressional Increase for Core Component Jammer (CCJ)			
	FY10 Reduction of $42M for higher Air Force priorities			

Exhibit R-2a, RDT&E Project Justification

DATE: May 2009

BUDGET ACTIVITY: 05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE: 0604429F AIRBORNE ELECTRONIC ATTACK

PROJECT NUMBER AND TITLE: 5192 Network & Sys -of-Sys Dev

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
5192	Network & Sys -of-Sys Dev	23.170	43.123	11.107	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

This program element supports the development of the critical electronic attack capabilities, from technology demonstrations through transition to operational capability, for Air Force and joint operations to include the Global Strike and Persistent Global Attack Concepts of Operations (CONOPS). Based on the 2001 Joint Airborne Electronic Attack (AEA) Analysis of Alternatives (AoA) and the follow-on 2002 Joint Suppression of Enemy Air Defenses (Joint SEAD) presentation to OSD(AT&L), the AEA capability will consist of a number of components working together in a joint system of systems. The Joint SEAD presentation identified the Navy AEA components as the EA-6B Improved Capability (ICAP) III and EA-18G modified escort platforms and indicated the Air Force will be responsible for coordinating overall AEA system of systems requirements. AF component capabilities include the Miniature Air Launched Decoy (MALD) and its stand-in jammer variant called MALD-J, the EC-130H Compass Call Baseline 0 (formerly Block 35) configuration and Active Electronically Scanned Array (AESA) radar equipped aircraft, and potentially, recoverable unmanned stand-in and manned long range stand-off jammer platforms.

This program is included in budget activity 5, System Development and Demonstration, because of the development and/or testing associated with Airborne Electronic Attack.

(U) B. Accomplishments/Planned Program ($ in Millions)	FY 2008	FY 2009	FY 2010
(U) AEA Synchronization Office Support	1.250	1.300	1.300
(U) AEA System of Systems engineering/architecture development/requirements refinement/technology maturation	12.617	24.554	6.399
(U) AEA virtual test/modeling & simulation/EW capability investment strategy/technology demonstrations	5.303	8.269	3.408
(U) B-52 Core Component Jammer (CCJ) technology demonstration	4.000	9.000	
(U) Total Cost	23.170	43.123	11.107

(U) C. Other Program Funding Summary ($ 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 Cost
(U) None										

(U) D. Acquisition Strategy

Project 5192 "Network and System of Systems Development" uses existing ASC, AFRL, and other contracts and instruments to provide engineering, architecture development, and other support for the AEA System of Systems.

Exhibit R-3, RDT&E Project Cost Analysis

DATE: May 2009

BUDGET ACTIVITY: 05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE: 0604429F AIRBORNE ELECTRONIC ATTACK

PROJECT NUMBER AND TITLE: 5192 Network & Sys -of-Sys Dev

(U) Cost Categories (Tailor to WBS, or System/Item Requirements) ($ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2008 Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) Product Development												
AEA system of systems engineering	MIPR & CPFF	Various	9.400	4.644	Dec-07	10.154	Dec-08	5.274	Dec-09	Continuing	TBD	
Low band array technology maturation	CPFF	Various		3.537	Jun-08	6.000					9.537	
Mid band array technology maturation	CPFF	Various		0.891	Jun-08	4.000					4.891	
Aircraft integration systems engineering	CPFF	Boeing; Wichita, KS		4.000	Jun-08	9.000					13.000	
Exciter technology maturation	CPFF	Various		2.438	Jun-08	3.300					5.738	
Subtotal Product Development			9.400	15.510		32.454		5.274		Continuing	TBD	0.000
Remarks: Includes system of systems engineering; architecture development; network requirements development; EW assessments; technology maturation; working group support; engineering, test planning, and milestone preparation assistance for AF AEA SoS components												
(U) Support												
AEA requirements support	MIPR	Various	2.100	1.107	Dec-07	1.100	Dec-08	1.125	Dec-09	Continuing	TBD	
Subtotal Support			2.100	1.107		1.100		1.125		Continuing	TBD	0.000
Remarks: Requirements support includes contracted requirements refinement support for ACC and AF/A5R												
(U) Test & Evaluation												
AEA Virtual test/AFEWICS/Technology Demonstrations	Various	Various	17.143	5.303	Nov-07	8.269	Dec-08	3.408	Dec-09	Continuing	TBD	
Subtotal Test & Evaluation			17.143	5.303		8.269		3.408		Continuing	TBD	0.000
Remarks: AEA virtual test element includes modeling and simulation for SoS EW assessments, conducting technology risk mitigation demonstrations, DoD scenario initiation & distribution, SoS test planning/rehearsal, and supports Air Force Electronic Warfare Capability Investment Strategy (AFEWCIS) roadmap development, maintenance, & assessments												
(U) Management												
ASC/XR (AEA Synch office)	Various	Various	2.099	1.250	Oct-07	1.300	Oct-08	1.300	Oct-09	Continuing	TBD	
Subtotal Management			2.099	1.250		1.300		1.300		Continuing	TBD	0.000
Remarks: Element includes miscellaneous administrative costs incurred in the day-to-day operations by program offices. Costs include travel, office equipment, office supplies, printing, contract services, program management administrative and communications expenses.												
(U) Total Cost			30.742	23.170		43.123		11.107		Continuing	TBD	0.000

Exhibit R-4, RDT&E Schedule Profile		DATE May 2009
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604429F AIRBORNE ELECTRONIC ATTACK	PROJECT NUMBER AND TITLE 5192 Network & Sys -of-Sys Dev

AEA SoS Schedule FY08-FY10

Dominant Air Power: Design for Tomorrow…Deliver Today

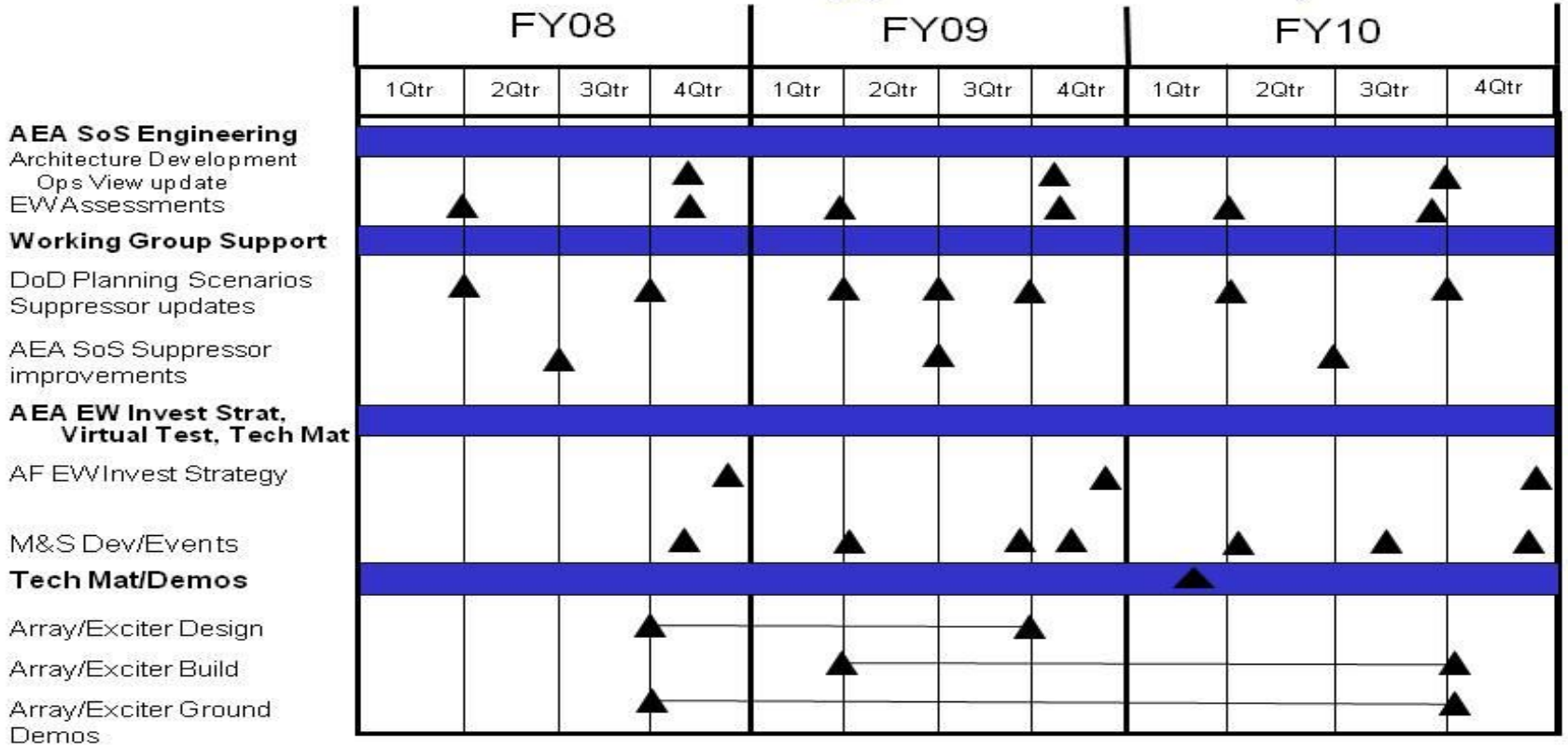

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Exhibit R-4a, RDT&E Schedule Detail		DATE May 2009
BUDGET ACTIVITY **05 System Development and Demonstration (SDD)**	PE NUMBER AND TITLE **0604429F AIRBORNE ELECTRONIC ATTACK**	PROJECT NUMBER AND TITLE **5192 Network & Sys -of-Sys Dev**

(U) Schedule Profile	FY 2008	FY 2009	FY 2010
(U) Continuing to support ongoing AEA systems engineering efforts	1-4Q	1-4Q	1-4Q

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