PE NUMBER: 0604429F

PE TITLE: AIRBORNE ELECTRONIC ATTACK

	Exhib	DATE	February	2006						
	T ACTIVITY				E NUMBER AND					
05 Sys	stem Development and Demonstrat	ion (SDD)		0	604429F AIR					
	Cost (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total
	Cost (\$ III MIIIIolis)	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
	Total Program Element (PE) Cost	0.000	119.262	12.421	12.485	12.492	12.488	12.491	Continuing	TBD
5192	Network & Sys -of-Sys Dev	0.000	12.125	12.421	12.485	12.492	12.488	12.491	Continuing	TBD
5193	B-52 Stand-Off Jammer	0.000	107.137	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

In FY 2006, Project 655192, Network and System-of-Systems Development and Project 655193, B-52 Stand-Off Jammer, efforts were transferred from PE 0604270F, Electronic Warfare Development, Project 658462, Airborne Electronic Attack. Project 655193, B-52 Stand-Off Jammer, is terminated in FY 2007.

(U) A. Mission Description and Budget Item Justification

This program element supports the development of the critical electronic attack capabilities, from technology demostrations 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 AEA will be responsible for coordinating overall AEA system of systems requirements. AF component capabilities include the Miniature Air Launched Decoy (MALD) stand-in jammer variant called MALD-J, the EC-130H Compass Call Block 35 configuration and Active Electronically Scanned Array (AESA) radar equipped aircraft.

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

B. Program Change Summary (\$ in Millions)

		<u>FY 2005</u>	FY 2006	FY 2007
(U)	Previous President's Budget	0.000	120.985	235.450
(U)	Current PBR/President's Budget	0.000	119.262	12.421
(U)	Total Adjustments	0.000	-1.723	
α	Congressional Program Reductions			

-1.723**Congressional Rescissions**

Congressional Increases

Reprogrammings

SBIR/STTR Transfer

- Significant Program Changes:
 - FY2006, Airborne Electronic Attack efforts were transferred from PE 0604270F, EW Development, into this PE
 - FY2007, Project 655193, B-52 Stand-Off Jammer terminates

R-1 Shopping List - Item No. 78-2 of 78-10

Exhibit R-2 (PE 0604429F

	Exh	DATE	DATE February 2006							
05 System Development and Demonstration (SDD)								PROJECT NUMBER AND TITLE 5192 Network & Sys -of-Sys Dev		
	Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
5192	Network & Sys -of-Sys Dev	0.000	12.125	12.421	12.485	12.492	12.488	12.491	Continuing	TBD
	Quantity of RDT&E Articles	0	0	C	0	0	0	0		

In FY 2006, Project 655192, Network and System-of-Systems Development, efforts were transferred from PE 0604270F, Electronic Warfare Development, Project 658462, Airborne Electronic Attack.

(U) A. Mission Description and Budget Item Justification

This project concentrates on the overall systems engineering, architecture and network requirements development, effectiveness assessment and requirements allocation to component systems of the AEA System of Systems (SoS). It also includes establishment and use of virtual test capabilities for system of systems effectiveness testing/evaluation for AEA, studies and technology risk mitigation demonstrations for AEA SoS components and AEA SoS battle management, and the development and maintainence of the AF electronic warfare capability investment strategy. These efforts are crucial in the development of critical electronic attack capabilities in support of Air Force and joint operations to include Global Strike and Persistent Global Attack Concepts of Operations (CONOPS).

The joint AEA System of Systems include the Navy EA-6B and EA-18G core components; the Air Force Miniature Air Launched Decoy (MALD) stand-in jammer variant, MALD-J; the EC-130H Compass Call Block 35 configuration; Active Electronically Scanned Array (AESA) radar equipped aircraft; a low/mid frequency, high power component capable of location and reactive jamming suppression of enemy integrated air defense system (IADS) radars and non-IADS targets.

١	(U)	B. Accomplishments/Planned Program (\$ in Millions)	FY 2005	FY 2006	FY 2007
١	(U)	AEA Synchronization Office Support		1.025	1.121
١	(U)	AEA System of Systems engineering/architecture development/requirements refinement		5.700	5.800
١	(U)	AEA virtual test/modeling & simulation/EW capability investment strategy/technology demonstrations		5.400	5.500
ŀ	(U)	Total Cost	0.000	12.125	12.421

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

FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total Cost
Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	Total Cost

(U) None

(U) D. Acquisition Strategy

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

Project 5192 R-1 Shopping List - Item No. 78-3 of 78-10

Exhibit R-2a (PE 0604429F)

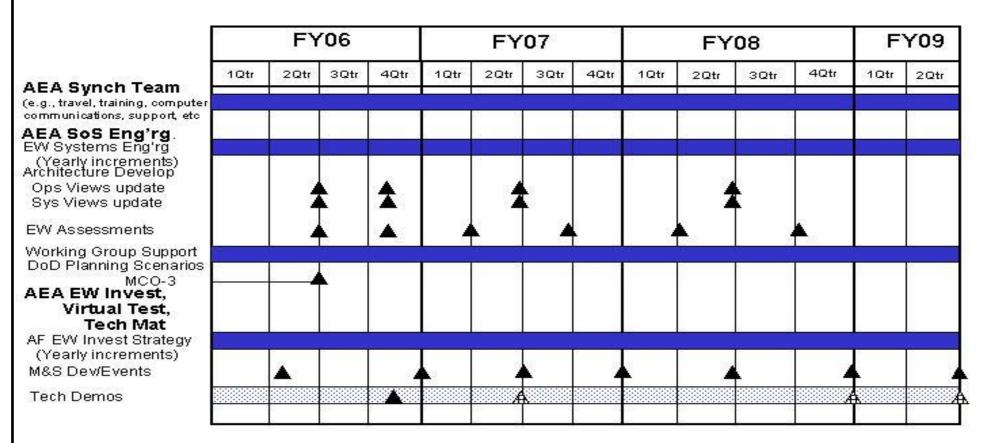
		E	Exhibit R	-3, RDT&E	Project Co	st Anal	ysis				D	ATE Feb	ruary 20	06
	OGET ACTIVITY System Development	and Demons	tration (SD	DD)				O TITLE RBORNE I	ELECTR			NUMBER ANI work & Sy		Dev
(U)	Cost Categories (Tailor to WBS, or System/Item (\$ in Millions)	Requirements)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2005 Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contrac
(U)	Product Development AEA system of systems engined	ering	MIPR & CPFF	Various				4.650		4.750		Continuing	TBD	
	Subtotal Product Development Remarks:	Includes system o and milestone pre		0.	0.000 re development; net SoS components	0.000 work require	ments develo	4.650 pment; EW a	ssessments;	4.750 working gro		Continuing ngineering, tes	TBD t planning,	0.00
	Support AEA requirements support Subtotal Support Remarks:	Requirements sup	MIPR	Various ontracted requirem	0.000 nents refinement sup	0.000 port for ACC	C and AF/XC	1.050 1.050		1.050 1.050		Continuing Continuing	TBD TBD	0.000
U)	Test & Evaluation AEA Virtual test/AFEWICS/Te Demonstrations	chnology	Various	Various				5.400		5.500		Continuing	TBD	
	Subtotal Test & Evaluation Remarks:				0.000 nulation for SoS EV orts Air Force Electr				_		ations, DoD s			0.00
(U)	Management ASC/XR (AEA Synch office) Subtotal Management		Various	Various	0.000	0.000		1.025 1.025		1.121 1.121		Continuing Continuing	TBD TBD	0.00
	Remarks:				ts incurred in the da tive and communica		• 1	ogram offices	. Costs inclu	ide travel, o	ffice equipme	nt, office supp	lies, printing,	
(U)	Total Cost				0.000	0.000		12.125		12.421		Continuing	TBD	0.000

Project 5192

Exhibit R-3 (PE 0604429F)

Exhibit R-4, RDT&E Schedule Profile 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 Synchronization Schedule



= Deliveries

Project 5192

A = Potential Deliveries

R-1 Shopping List - Item No. 78-5 of 78-10

Exhibit R-4 (PE 0604429F)

	UNCLASSIFIED	DATE	
Exhibit R-4	a, RDT&E Schedule Detail		uary 2006
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604429F AIRBORNE ELECTRONIC ATTACK	PROJECT NUMBER AND 5192 Network & Sys	TITLE
(U) Schedule Profile (U) AEA SoS Systems Engineering (U) Update AEA SoS Operational View (U) EW Assessments (U) Develop AF EW Investment Strategy (U) Technology Demonstrations	FY 2005	FY 2006 1-4Q 2-4Q 2-4Q 1-4Q 1-4Q	FY 2007 1-4Q 2-3Q 1-3Q 1-4Q 1-4Q
Project 5192	R-1 Shopping List - Item No. 78-6 of 78-10	Exhibit	R-4a (PE 0604429F)

	Exh	DATE	DATE February 2006							
05 System Development and Demonstration (SDD)								PROJECT NUMBER AND TITLE 5193 B-52 Stand-Off Jammer		
	Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
5193	B-52 Stand-Off Jammer	0.000	107.137	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0		

In FY 2006, Project 655193, B-52 Stand-Off Jammer, efforts were transferred from PE 0604270F, Electronic Warfare Development, Project 658462, Airborne Electronic Attack.

(U) A. Mission Description and Budget Item Justification

This program is terminated in FY07. The Air Force is determining required funding for program termination and continuing to perform studies and mature technologies to a level needed to provide an electronic attack capability for reactive jamming suppression of enemy integrated air defense systems (IADS) and IADS component radars from stand-off distances.

(U)	B. Accomplishments/Planned Program (\$ in Millions)	FY 2005	FY 2006	FY 2007
(U)	B-52 SOJ Pre-SDD Contract		95.800	0.000
(U)	B-52 SOJ SDD Contract			0.000
(U)	Tech Demo		7.600	0.000
(U)	Mission and Test Support		0.500	0.000
(U)	Program Office Support		3.237	0.000
(U)	Total Cost	0.000	107.137	0.000
(U)	C. Other Program Funding Summary (\$ in Millions)			

	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total Cost
	<u>Actual</u>	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	Total Cost
(U) PE 27442F (AEA procurement)				0.000	0.000	0.000	0.000	0.000	0.000

(U) D. Acquisition Strategy

Maturation of high risk technologies will continue via AFRL contracts with applicable vendors. This effort will mature technologies that are applicable to the AEA System of Systems requirements. The Air Force will not award a prime contract for the B-52 SOJ due to termination of program.

Project 5193 R-1 Shopping List - Item No. 78-7 of 78-10

Sin Millions Type Location 2005 Date D				UNC	LASSIFI	ED							
PENUMBER AND TITLE System Development and Demonstration (SDD) PROJECT NUMBER AND TITLE Stystem Development and Demonstration (SDD) PROJECT NUMBER AND TITLE Stystem Development and Demonstration (SDD) PROJECT NUMBER AND TITLE Stystem Development Stystem Number		Exhibit R-	3, RDT&E	Project Co	st Analy	ysis				D		ruarv 20	06
Califor to WBS, or System/Item Requirements Method & Activity & Prior to FY (5 in Millions) Date Da	PE NUMBER AND TITLE DESCRIPTION OF System Development and Demonstration (SDD) PE NUMBER AND TITLE DESCRIPTION OF SUBJECT NUMBER AND TITLE DESCRIPTION OF SUB												
B-52 SOJ Pre-SDD Contract 95.800 0.000	(Tailor to WBS, or System/Item Requirem	ents) Method &	Activity &	Prior to FY 2005		Award		Award		Award		Total Cost	Target Valu of Contra
Subtotal Product Development 0.000 0.000 103.400 0.000 0.000 103.400 0.000 0.000 103.400 0.000 0.000 0.000 103.400 0.000	B-52 SOJ Pre-SDD Contract B-52 SOJ SDD Contract	ıt									0.000	0.000	
SOJ Program Support 3.237 0.000 Continuing TBD Government Furnished Equipment 0.000 0.000 0.000 Continuing TBD Subtotal Support 0.000 0.000 0.000 3.237 0.000 Continuing TBD 0.000 0.000 3.237 0.000 Continuing TBD 0.000 Remarks: Studies and Analysis includes modeling and simulation Test Support 0.000 0.000 0.000 0.000 Continuing TBD 0.000 0.000 0.000 0.000 Continuing TBD 0.0000 0.000 0.000 0.000 Continuing TBD 0.0000 0.000 0.000 0.000 0.000 Continuing TBD 0.0000 0.000 0.000 0.000 0.000 Continuing TBD 0.000 0.000 0.000 0.000 0.000 Continuing TBD 0.000 0.000 Studies and Analysis 0.000 0.000 0.000 0.000 0.000 Continuing TBD 0.000 0.000 Studies and Analysis 0.000 0.000 0.000 0.000 0.000 Continuing TBD 0.000 Studies and Analysis 0.000 0.000 0.000 0.000 0.000 Continuing TBD 0.0000 0.000 0.000 0.000 0.000 Continuing TBD 0.0000 0.000 0.000 0.000 0.000 0.000 Continuing TBD 0.0000 0.000 0.000 0.000 0.000 0.000 Continuing TBD 0.0000 0.	Subtotal Product Development Remarks:			0.000	0.000				0.000		0.000		0.0
Remarks: Studies and Analysis includes modeling and simulation Test & Evaluation Test Support Subtotal Test & Evaluation Remarks: Funds for test planning support from various organizations Management Management Support Studies and Analysis Studies and Analysis Includes support of Acquisition and Sustainment wings at Wright-Patterson AFB and Tinker AFB, studies, analysis modeling and simulation	SOJ Program Support Government Furnished Equipment			0.000	0.000		0.000		0.000		Continuing	TBD	0.0
Subtotal Test & Evaluation Remarks: Funds for test planning support from various organizations Management Management Support	Remarks: Studies and Test & Evaluation	d Analysis includes mo	deling and simulat	tion			0.000		0.000		Continuing	TRD	
Management Support Studies and Analysis Subtotal Management Support Studies and Analysis Subtotal Management Includes support of Acquisition and Sustainment wings at Wright-Patterson AFB and Tinker AFB, studies, analysis modeling and simulation	Subtotal Test & Evaluation Remarks: Funds for	est planning support fr	om various organiz		0.000						U		0.0
Remarks: Includes support of Acquisition and Sustainment wings at Wright-Patterson AFB and Tinker AFB, studies, analysis modeling and simulation	Management Support								0.000		Continuing		
J) Total Cost 0.000 0.000 107.137 0.000 Continuing TBD (Remarks: Includes s	apport of Acquisition a	nd Sustainment wi		erson AFB an	d Tinker AFI	3, studies, an	alysis modelir	ng and sim	ulation	Č		0.0
	J) Total Cost			0.000	0.000		107.137		0.000		Continuing	TBD	0.00

Project 5193 R-1 Shopping List - Item No. 78-8 of 78-10

DATE **Exhibit R-4, RDT&E Schedule Profile** February 2006 PROJECT NUMBER AND TITLE BUDGET ACTIVITY PE NUMBER AND TITLE 05 System Development and Demonstration (SDD) 0604429F AIRBORNE ELECTRONIC 5193 B-52 Stand-Off Jammer **ATTACK** Schedule Dominant Air Power: Design For Tomorrow... Deliver Today 2007 2008 FY: 2005 2006 **Program Termination** Milestones: Capabilities **Documents:** (T) ICD LB Array Tech Demos Technology Demonstration Phase **Tech Maturation** N N N Requirements Analysis **Program Definition** LEGEND ICD: Initial Capabilities Document Project 5193 R-1 Shopping List - Item No. 78-9 of 78-10 Exhibit R-4 (PE 0604429F)

	BECT NUMBER AND TITLE B B-52 Stand-Off Jammer FY 2006 FY 2006	
ATTACK	EV 2006 EV 200	
(U) Schedule Profile FY 2005 (U) Program termination	F1 2000 F1 200 10	
Project 5193	Eyhihit R-4a (PE 0604429	

TERMINATION OF INVESTMENT-RELATED PROGRAMS

FY 2007 President's Budget

(Dollars in Millions)

PE	BPAC	APPN	FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011	
			COST	QTY												
0604429F	655193	3600	0.000	0	107.137	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0

Effort Title

B-52 Stand-Off Jammer (SOJ), BPAC 655193

Program Description

The B-52 Stand-Off Jammer program was to design, document, develop, integrate, test, and install an electronic attack capability that provides high power, wide frequency jamming from stand-ff distances outside of enemy air defenses. The system incorporates high probability of intercept receivers for target detection and geo-location, and battle management functions for reactive jamming suppression of enemy integrated air defense systems (IADS) and non-IADS threats within the same frequency band. The program was in source selection for the Pre-System Development and Demonstration prime contractor and preparing for a Milestone A decision. Electronic attack technology maturation efforts continue through FY06.

Status to Date

Source selection for prime contractor terminated.

Rationale for Termination

As originally conceived, the SOJ program (BPAC 655193) was deemed unaffordable.