

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE June 2001	
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604270F EW Development					
COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	69,266	52,611	41,267	45,842	55,972	43,838	37,430	38,222	Continuing	TBD
1011 Joint Service Electronic Combat Systems Tester	2,618	2,937	3,521	0	0	0	0	0	0	48,334
2462 Compass Call (CC)	693	812	0	0	0	0	0	0	0	66,782
3891 Advanced IR Counter Measures (AIRCМ)	39,635	4,366	991	3,343	3,351	3,425	3,498	3,570	Continuing	TBD
3945 RF Towed Decoy Systems	15,373	25,968	34,928	42,499	52,621	40,413	33,932	34,652	Continuing	TBD
4832 Precision Location and Identification (PLAID)	10,947	13,376	1,827	0	0	0	0	0	0	30,320
8462 MALD	0	5,152	0	0	0	0	0	0	0	5,152
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0
<p>AIRCМ includes four subprojects: Common Missile Warning System (CMWS), Advanced Strategic and Tactical Infrared Expendables (ASTE), Large Aircraft IRCМ (LAIRCМ)/Large Aircraft IR Flyout Experiment (LIFE), and software upgrade to AAR-47.</p> <p>FY03 - FT07 budget numbers do not reflect the DoD strategic review results.</p> <p>(U) <u>A. Mission Description</u> This program element (PE) consolidates engineering development efforts related to Air Force Electronic Warfare (EW) requirements. It centralizes USAF funding and management of common EW systems development. These funds transition EW technologies to an installed operational capability. This PE executes projects to provide capabilities to deter, detect, deceive and counter enemy acquisition and tracking of DoD operational platforms plus enemy Radio Frequency (RF) information operations worldwide. These projects include Infrared (IR), RF and laser situational awareness and self protection systems, command and control warfare (C2W) electronic attack systems, and the test equipment needed to support them.</p>										

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0604270F EW Development(U) **A. Mission Description Continued**

The following net transactions are not reflected in the FY01 program total: BTR:+507K and SBIR of -\$1,674K. These transactions are not reflected in other sections of the R-docs where FY01 total is shown.

(U) **B. Budget Activity Justification**

A key criterion for the included projects in this program element is the need for engineering and manufacturing developmental activities, therefore these programs are in Budget Activity 5 - Engineering and Manufacturing Development (EMD).

(U) **C. Program Change Summary (\$ in Thousands)**

	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Total Cost</u>
(U) Previous President's Budget (FY 2001 PBR)	87,187	58,198	53,655	TBD
(U) Appropriated Value	86,847	53,098		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions	-569	-372		
b. Small Business Innovative Research	-2,480			
c. Omnibus or Other Above Threshold Reprogram	-2,565			
d. Below Threshold Reprogram	-11,627			
e. Rescissions	-340	-115		
(U) Adjustments to Budget Years Since FY 2001 PBR			-12,388	
(U) Current Budget Submit/FY 2002 PBR	69,266	52,611	41,267	TBD

(U) **Significant Program Changes:**

\$11,627M of FY00 funding was transferred from PE64270F for higher Air Force priorities.

\$2.565M of FY00 funding is identified for Omnibus.

Congressional reduction in FY01 of \$19.8M for Air Force withdrawal from the CMWS program.

Congressional add of \$1.2M in FY01 for MALD transition from Advanced Concept Technology Demonstration, \$10M for Precision Location and Identification (PLAID) EMD, and \$3.5M for Survivability Enhancements: \$2.5M for ALR-56C processor upgrade, \$0.7M for Comet Pod force development evaluation, and \$0.3M for Pouncer 2 hosting on an airborne platform.

\$2.6M was transferred in FY02 from this PE to the Compass Call PE.

\$3.5M was transferred in FY02 from JSECST production to JSECST RDT&E to fund development of the follow-on test program sets.

\$14.8M was removed from FY02 due to the cancellation of the Common Missile Warning System

\$0.3M was removed from FY02 from IDECM due to program realignment.

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0604270F EW Development(U) C. Program Change Summary (\$ in Thousands) Continued(U) Significant Program Changes Continued:

\$1.8M was added in FY02 to fund PLAID RDT&E cost growth.

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PROJECT

1011

COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
1011 Joint Service Electronic Combat Systems Tester	2,618	2,937	3,521	0	0	0	0	0	0	48,334

FY03-FY07 budget numbers do not reflect the DoD strategic review results.

(U) **A. Mission Description**

The Joint Service Electronic Combat Systems Tester (JSECST) fills a combined Air Force and Navy operational requirement for a small, adaptable, and highly mobile tester capable of verifying system level performance of installed electronic countermeasures systems. JSECST provides an organizational-level flight line capability for verifying operational status of aircraft-installed electronic combat (EC) systems including Group A antennas and transmission lines. JSECST will fill a void in current Air Force end-to-end test capability. The JSECST system consists of core test sets (CTS), nomenclature AN/USM-670, test program sets (TPS), and software development stations (SDS). The CTS provides the stimulus, measurement, operator-interface, analysis and control functions common across all applications. The TPSs provide aircraft specific hardware interfaces and software packages to employ the CTS. The SDS provides computer resources for developing and maintaining CTS and TPS software. Initial TPS will support the F-15C. The Follow-on Test Program Set (FOTPS) program will design, develop, assemble, integrate, test, and deliver TPSs for use with the AN/USM-670 for additional aircraft. The follow-on Air Force platforms include the F-15E, F-16 (Blocks 25/30/32/40/42/50/52), and OA/A-10. Navy platforms include the AV-8B, F/A-18 A/B and the F-14 B/D. (Navy platforms will be funded by the Navy.) JSECST is intended to meet the organizational level support equipment requirements of electronic combat systems for service through a 20-year life cycle.

(U) **FY 2000 (\$ in Thousands)**

(U) \$1,253	Initiate FOTPS Engineering Manufacturing Development (EMD) Contract
(U) \$874	Continue CTS Development
(U) \$325	Continue SPO Support
(U) \$136	Continue Government Test
(U) \$30	Continue TPS Lab Support
(U) \$2,618	Total

(U) **FY 2001 (\$ in Thousands)**

(U) \$2,216	Continue FOTPS EMD Contract
(U) \$102	Complete CTS Development
(U) \$364	Continue SPO Support
(U) \$185	Continue Government Test
(U) \$70	Continue TPS Lab Support

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(U) <u>A. Mission Description Continued</u>										
(U) <u>FY 2001 (\$ in Thousands) Continued</u>										
(U) \$0 No Activity										
(U) \$2,937 Total										
The following net transactions are not reflected in the FY01 program total: BTR=-626K and SBIR=-93.3K. These transactions are not reflected in other sections of the R-docs where an FY01 total is shown.										
(U) <u>FY 2002 (\$ in Thousands)</u>										
(U) \$2,871 Complete FOTPS EMD Contract										
(U) \$390 Continue SPO Support										
(U) \$195 Complete Government Test										
(U) \$65 Complete TPS Lab Support										
(U) \$3,521 Total										
(U) <u>B. Project Change Summary</u>										
\$3.5M of FY02 production funding was zero balance transferred to JSECST RDT&E to fund FOTPS development.										
(U) <u>C. Other Program Funding Summary (\$ in Thousands)</u>										
	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) AF RDT&E										
(U) Other APPN										
(U) Aircraft Procurement, AF PE	0	17,089	24,269	5,449	0	0	0	0	0	46,807
27442F (Common ECM Equipment), In Service Direct Ground Support Equipment, BP-12										
(U) Initial Spares, BP-16	0	717	152	318	0	0	0	0	0	1,187
(U) Total Aircraft Porcurement, AF	0	17,806	24,421	5,767	0	0	0	0	0	47,994

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BUDGET ACTIVITY

05 - Engineering and Manufacturing Development

PE NUMBER AND TITLE

0604270F EW Development

PROJECT

1011(U) **D. Acquisition Strategy**

The acquisition strategy is competitive, cost-plus contracts for CTS development. FOTPS acquisition strategy is a sole source, cost-plus contract. Production and support contract is sole source.

(U) **E. Schedule Profile**

	<u>FY 2000</u>				<u>FY 2001</u>				<u>FY 2002</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Developmental Test & Evaluation		*										
(U) Functional Configuration Audit			*									
(U) Operational User Flight Line Assessment					*							
(U) CTS Milestone III (Apr 01)							*					
(U) CTS Production Lots award (Jul 01)								X				
(U) Complete FOTPS Development												X
* - Denotes a completed event												
X - Denotes a planned event												

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE		
								June 2001		
BUDGET ACTIVITY					PE NUMBER AND TITLE			PROJECT		
05 - Engineering and Manufacturing Development					0604270F EW Development			1011		
(U) A. Project Cost Breakdown (\$ in Thousands)										
					FY 2000		FY 2001		FY 2002	
(U) EMD Contracts					2,127		2,318		2,871	
(U) SPO Support					325		364		390	
(U) Government Test					136		185		195	
(U) FOTPS Lab Support					30		70		65	
(U) Total					2,618		2,937		3,521	
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)										
(U) Performing Organizations:										
Contractor or		Contract								
Government		Method/Type		Award or		Performing		Project		
Performing		or Funding		Obligation		Activity		Office		Total Prior
Activity		Vehicle		Date		EAC		EAC		to FY 2000
Product Development Organizations										
AAI		CPAF		Mar 96		28,340		28,340		27,106
FO TPS AAI		CPIF		Jun 00		6,325		6,325		0
Support and Management Organizations										
ASC/SMNT, NAVAIR,				Various						11,064
Wright Labs										325
Test and Evaluation Organizations										
53 EWG, 46 TW, Eglin AFB										1,088
FL										166
										255
										260
										0
										1,769
					Total Prior		Budget		Budget	
					to FY 2000		FY 2000		FY 2001	
							FY 2002		Budget to	
									Complete	
									Total	
Subtotals										
Subtotal Product Development					27,106		2,127		2,318	
Subtotal Support and Management					11,064		325		364	
Subtotal Test and Evaluation					1,088		166		255	
Total Project					39,258		2,618		2,937	
									3,521	
									0	
									48,334	
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BUDGET ACTIVITY 05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604270F EW Development					PROJECT 2462	
COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost	
2462 Compass Call (CC)	693	812	0	0	0	0	0	0	0	66,780	
<p>FY03-07 budget numbers do not reflect the DoD strategic review results.</p> <p>(U) <u>A. Mission Description</u> COMPASS CALL is the USAF's only non-lethal Suppression of Enemy Air Defense (SEAD) platform and airborne wide area coverage offensive counter information system. It denies, disrupts, degrades and deceives adversary voice and data communications, disrupting the ability to effectively command and control forces in the field. Although a fielded, operational capability, COMPASS CALL continues to evolve and adapt to counter the changing adversary tactical communications systems. The Tactical Radio Acquisition and Countermeasures Subsystem (TRACS) replaces the aging compressive receiver suite responsible for acquiring target systems with a digital, reprogrammable receiver system. TRACS will enable COMPASS CALL to remain viable in countering the next generation of deployed threats. Additionally, new target (class 6) countermeasures capability is under development. This effort funds the non-recurring efforts associated with TRACS development for COMPASS CALL.</p> <p>(U) <u>FY 2000 (\$ in Thousands)</u> (U) \$393 Continue new target class countermeasures development (U) \$150 Initiate Block 30 threat signal update (U) \$150 Initiate Block 30 waveform update (U) \$693 Total</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u> (U) \$312 Continue New target class countermeasures development (U) \$250 Continue New target class countermeasures operational flight test (U) \$125 Continue Block 30 threat signal update (U) \$125 Continue Block 30 waveform update (U) \$812 Total</p> <p>The following transactions are not reflected in the FY01 program total: BTR=-\$7K and SBIR=-\$37K. These transactions are not reflected in other sections of the R-docs where an FY01 total is shown.</p>											
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PROJECT

2462(U) **A. Mission Description Continued**(U) **FY 2002 (\$ in Thousands)**

(U) \$0 No Activity (RDT&E funding has been transferred to Compass Call PE27253F)

(U) \$0 Total

(U) **B. Project Change Summary**

All program funding in this project for FY02 and later has been transferred to Compass Call PE 27253F.

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

	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) AF RDT&E										
(U) Other APPN										
(U) Compass Call (RDT&E), AF PE27253F	13,780	21,681	3,885	3,878	3,870	0	5,000	6,456	Continuing	Continuing

(U) **D. Acquisition Strategy**

Cost Plus Incentive Fee/Award Fee contracting will be employed for all activities.

(U) **E. Schedule Profile**

	<u>FY 2000</u>				<u>FY 2001</u>				<u>FY 2002</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) TRACS Flight Test												
(U) TRACS PDR	*											
(U) New Countermeasures#	*	*	*	*	*	*	*	X				
(U) New CM Flt Test	*	*	*	*	*	*	*	X				
(U) Block 30 Signals Update#		*	*	*	*	*	*	X				
(U) Block 30 Waveform Update#		*	*	*	*	*	*	X				

- New countermeasures development and Block 30 signals/waveform updates are a continuing effort to improve the existing system's ability to effectively counter emerging threats. Due to the dynamic nature of this platform's mission, this effort is a continuous activity.

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(U) <u>E. Schedule Profile Continued</u>													
						<u>FY 2000</u>				<u>FY 2001</u>		<u>FY 2002</u>	
						1	2	3	4	1	2	3	4
<p>* - Denotes a completed event</p> <p>X - Denotes a planned event</p>													
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BUDGET ACTIVITY					PE NUMBER AND TITLE				PROJECT		
05 - Engineering and Manufacturing Development					0604270F EW Development				2462		
(U) <u>A. Project Cost Breakdown (\$ in Thousands)</u>											
					<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		
(U)	TRACS-Basic				0		0		0		
(U)	New Threat (class 6) CM Development				393		562		0		
(U)	Block 30 Signals Update Development				150		125		0		
(U)	Block 30 Waveform Update Development				150		125		0		
(U)	Total				693		812		0		
(U) <u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u>											
(U) <u>Performing Organizations:</u>											
<u>Contractor or</u>		<u>Contract</u>									
<u>Government</u>		<u>Method/Type</u>		<u>Award or</u>		<u>Performing</u>		<u>Project</u>			
<u>Performing</u>		<u>or Funding</u>		<u>Obligation</u>		<u>Activity</u>		<u>Office</u>		<u>Total Prior</u>	
<u>Activity</u>		<u>Vehicle</u>		<u>Date</u>		<u>EAC</u>		<u>EAC</u>		<u>to FY 2000</u>	
<u>Product Development Organizations</u>											
Sanders		SS/CPIF		1QFY99				TBD		27,099	
Raytheon Ft Wayne		SS/CPIF		N/A				23,543		23,535	
GTE		SS/CPIF		N/A				8,875		8,875	
<u>Support and Management Organizations</u>											
Misc (SPO, Labs)		Various		N/A				3,172		25	
<u>Test and Evaluation Organizations</u>											
EPG, Ft. Huachuca NM		MIPR		2QFY99				500		125	
WTR		616		2QFY99				500		75	
(U) <u>Government Furnished Property:</u>											
		<u>Contract</u>									
		<u>Method/Type</u>		<u>Award or</u>							
<u>Item</u>		<u>or Funding</u>		<u>Obligation</u>		<u>Delivery</u>				<u>Total Prior</u>	
<u>Description</u>		<u>Vehicle</u>		<u>Date</u>		<u>Date</u>				<u>to FY 2000</u>	
<u>Product Development Property</u>											
Misc								1,594		0	
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BUDGET ACTIVITY		PE NUMBER AND TITLE			PROJECT
05 - Engineering and Manufacturing Development		0604270F EW Development			2462
(U) <u>Government Furnished Property Continued:</u>					
<u>Support and Management Property</u>					
<u>Test and Evaluation Property</u>					
	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
<u>Subtotals</u>	<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>
Subtotal Product Development	61,103	468	562	0	0
Subtotal Support and Management	3,172	25	25	0	0
Subtotal Test and Evaluation	1,000	200	225	0	0
Total Project	65,275	693	812	0	0

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PROJECT

3891

COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
3891 Advanced IR Counter Measures (AIRCM)	39,635	4,366	991	3,343	3,351	3,425	3,498	3,570	Continuing	TBD

*Advanced Infrared Countermeasures (AIRCM) now includes two subprojects: Advanced Strategic and Tactical IR Expendables (ASTE), and software upgrade to AAR-47. The Air Force terminated its participation in Common Missile Warning System (CMWS) in the FY02 budget cycle. The Large Aircraft IRCM/Laser Infrared Flyout Experiment (LAIRCM/LIFE) transferred to PE 0603270F in FY99, FY00 and FY01.

**The FY03-FY07 budget numbers do not reflect DoD's strategic review results.

(U) **A. Mission Description**

The Advanced IR Countermeasure (AIRCM) project contains related aircraft self-protection efforts aimed at increasing aircraft survivability against the increasing threat of sophisticated surface-to-air and air-to-air missiles, which may employ such features as next-generation electro-optics or dual IR and radio frequency seekers. AIRCM currently consists of two efforts, the USAF/USN Advanced Strategic and Tactical IR Expendables (ASTE) program, and USAF/USN AAR-47 software upgrade. The LAIRCM/LIFE effort and funding was transferred to PE 63270F for FY99, FY00, and FY01 to support ongoing Advanced Technology Demonstration study at Wright Lab. Air Force participation in the CMWS program was terminated in the FY02 budget process. ASTE will provide advanced IR expendable countermeasures. ASTE flares will be functionally compatible with existing ALE-40, 45, and 47 dispenser systems and will be employed across multiple USAF and USN weapon systems. The AAR-47 software upgrade supports two configurations of software intended to decrease the AAR-47 false alarm rate and improve threat detection for all large body aircraft.

(U) **FY 2000 (\$ in Thousands)**

(U) \$36,873	CMWS (Common Missile Warning System) Program Costs
(U) \$308	ASTE Development
(U) \$235	ASTE Test and Evaluation
(U) \$288	ASTE Modeling and Analysis
(U) \$445	ASTE Mission Support
(U) \$765	ASTE identified for Omnibus
(U) \$23	LAIRCM/LIFE Mission Support
(U) \$200	AAR-47 Modeling & Analysis
(U) \$236	AAR-47 Algorithm Development
(U) \$262	AAR-47 Verification & Validation
(U) \$39,635	Total

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE June 2001																														
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604270F EW Development	PROJECT 3891																														
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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)									DATE June 2001	
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604270F EW Development				PROJECT 3891	
(U) <u>C. Other Program Funding Summary (\$ in Thousands)</u>										
	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) AF RDT&E										
(U) Other APPN										
(U) Procurement of Ammunition, AF, PE 28030F, ASTE flares, BA-1, Appn 3011	4,835	4,779	4,815	4,806	4,767	4,873	5,269	5,775	Continuing	Continuing
(U) RDT&E, AF, PE 63270F, EO/IR Warning & Countermeasures, BA-3, BPAC 691X, Funds multiple EO/IR Science and Technology projects	14,203	10,247	12,349	12,673	13,554	13,532	12,560	12,806	Continuing	Continuing
(U) <u>D. Acquisition Strategy</u>										
The planned acquisition strategy is competitive cost-plus award fee.										
(U) <u>E. Schedule Profile</u>										
		<u>FY 2000</u>					<u>FY 2001</u>			<u>FY 2002</u>
		1	2	3	4	1	2	3	4	1
(U) ASTE DT&E - Fighter						*				
(U) ASTE OT&E - Fighter									X	
(U) ASTE OT&E - Covert				*						
(U) ASTE MS III - Fighter									X	
(U) ASTE MS III - Covert				*						
(U) ASTE PDR - Transport (Completed Apr 99)										
(U) ASTE CDR - Transport							*			
(U) ASTE DT&E-Transport									X	
(U) ASTE OT&E -Transport										X
(U) AAR-47 Analyze Data (V21.2)				*						
Project 3891										

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)										DATE June 2001																																																							
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604270F EW Development					PROJECT 3891																																																							
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	<u>FY 2000</u>					<u>FY 2001</u>					<u>FY 2002</u>																																																						
	1	2	3	4	1	2	3	4	1	2	3	4																																																					
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(U) AAR-47 Collect/Validate Data (V22)											X																																																						

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE June 2001			
BUDGET ACTIVITY					PE NUMBER AND TITLE				PROJECT		
05 - Engineering and Manufacturing Development					0604270F EW Development				3891		
(U) <u>A. Project Cost Breakdown (\$ in Thousands)</u>											
						<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>	
(U)	CMWS Joint Program Costs					27,089		0		0	
(U)	CMWS F-16 aircraft (Group A) EMD integration					3,008		0		0	
(U)	CMWS Test and Evaluation					4,676		0		0	
(U)	CMWS Mission Support					200		74		0	
(U)	CMWS Identified for Omnibus					1,900		0		0	
(U)	ASTE Prime Contract Costs					308		1,239		0	
(U)	ASTE Test & Evaluation					235		264		0	
(U)	ASTE Verification & Validation					0		100		0	
(U)	ASTE Modeling and Simulation					288		230		0	
(U)	ASTE Mission Support					445		481		0	
(U)	ASTE Identified for Omnibus					765		0		0	
(U)	LAIRCM/LIFE					23		994		0	
(U)	AAR-47 Hardware and Software Upgrades					0		560		286	
(U)	AAR-47 Modeling & Analysis / Hardware test capability					200		424		500	
(U)	AAR-47 Algorithm Development / live fire testing / data collection					236		0		205	
(U)	AAR-47 Verification & Validation					262		0		0	
(U)	Total					39,635		4,366		991	
(U) <u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u>											
(U) <u>Performing Organizations:</u>											
	<u>Contractor or</u>	<u>Contract</u>									
	<u>Government</u>	<u>Method/Type</u>	<u>Award or</u>	<u>Performing</u>	<u>Project</u>						
	<u>Performing</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Activity</u>	<u>Office</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	
	<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>	
										<u>Total</u>	
										<u>Program</u>	

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Exhibit R-3 (PE 0604270F)

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE		
								June 2001		
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT		
05 - Engineering and Manufacturing Development				0604270F EW Development				3891		
(U) <u>Performing Organizations Continued:</u>										
<u>Product Development Organizations</u>										
CMWS Sanders	CAAF/CPFF	Sep 95	60,099	60,099	34,699	13,700	0	0	0	48,399
CMWS Integration	CPAF	Various	52,259	52,259	24,497	3,008	0	0	0	27,505
ASTE - BAE	CPAF	Nov 95	8,324	8,324	16,640	308	1,239	0	Continuing	TBD
LIFE - Lockheed Martin	CPFF	TBD	3,400	0	0		994	0	0	994
Akron OH										
AAR-47 - GTRI (V21.2)	T&M	2Q99	0	0	0	698	0	0	0	698
AAR-47 - GTRI (V22)	T&M	1Q01	0	0	0	0	984	786	Continuing	TBD
<u>Support and Management Organizations</u>										
CMWS - CAS INC	CPFF	Sept 95		28,619	19,028	3,364	0	0	0	22,392
CMWS - MWS	T&M	Jun 97		13,144	9,524	1,250	0	0	0	10,774
CMWS - Mod & Sim	Various			4,116	2,596	1,445	0	0	0	4,041
CMWS -Misc	Various			38,330	8,199	12,206	74	0	0	20,479
ASTE M&A - SAIC	PR	Various		2,554	1,454	288	230	0	Continuing	TBD
ASTE V&V - Mac B	PR	Various		789	359	0	100	0	Continuing	TBD
ASTE - Misc	Various	Various		Continuing	36,304	445	481	0	Continuing	TBD
LIFE Flight A/C Support - contractor TBD	TBD	June 99		1,416	0	0	0	0	0	0
LIFE - Misc					0	23	0	0	0	23
<u>Test and Evaluation Organizations</u>										
AIRCM Identified for	0	0		0	0	2,665	0	0	0	2,665
Omnibus										
ASTE - 46TW	Various	Various		2,897	897	235	264	0	Continuing	TBD
ASTE - Misc	Various	Various		Continuing	282	0	0	0	Continuing	TBD
46TW/AFFTC/ BAE Support	Various	Various		30,114	17,092	0	0	0	Continuing	TBD
AAR-47 Live Fire Test / Data Collection						0	0	205	Continuing	TBD
Project 3891										
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Exhibit R-3 (PE 0604270F)										

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)				DATE June 2001		
BUDGET ACTIVITY		PE NUMBER AND TITLE				PROJECT
05 - Engineering and Manufacturing Development		0604270F EW Development				3891
		<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
		<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>
<u>Subtotals</u>						<u>Total</u>
Subtotal Product Development		75,836	17,714	3,217	786	TBD
Subtotal Support and Management		77,464	19,021	885	0	TBD
Subtotal Test and Evaluation		18,271	2,900	264	205	TBD
Total Project		171,571	39,635	4,366	991	TBD

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)

DATE

June 2001

BUDGET ACTIVITY

05 - Engineering and Manufacturing Development

PE NUMBER AND TITLE

0604270F EW Development

PROJECT

3945

COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
3945 RF Towed Decoy Systems	15,373	25,968	34,928	42,499	52,621	40,413	33,932	34,652	Continuing	TBD

* RDT&E funds are used for development, risk reduction, integration, flight test, and procurement of lab and test assets. Hardware is purchased by component, not as a complete upgrade kit, therefore aircraft funding does not completely portray the IDECM Programs.

**The FY03-FY07 budget numbers do not reflect DoD's strategic review results.

(U) **A. Mission Description**

This project develops, integrates and tests radio frequency (RF) towed decoy systems. RF towed decoys are low cost RF countermeasures that provide increased survivability against monopulse, semi-active, and active RF missile threats during the terminal portion of an engagement. This project developed, integrated and tested the Joint Air Force and Navy-led ALE-50 Advanced Airborne Expendable Decoy program. The Air Force is currently participating in the Navy-led Integrated Defensive Electronic Countermeasures (IDECM) program to jointly develop a common techniques generator (TG) and a Fiber Optic Towed Decoy (FOTD). Air Force funding pays for unique Air Force IDECM development costs, integration and test of an FOTD subsystem on the F-15, IDECM RF Countermeasures (RFCM) field and test support for host platform integration activities, and alternative FOTD risk reduction activities. The Defensive Systems Upgrade Program (DSUP) program funds integration and test of IDECM hardware on the B-1B.

(U) **FY 2000 (\$ in Thousands)**

(U) \$8,403 IDECM Common
 (U) \$4,423 IDECM F-15
 (U) \$2,547 Mission and Test Support
 (U) \$0 No Activity
 (U) \$15,373 Total

(U) **FY 2001 (\$ in Thousands)**

(U) \$8,599 IDECM Common
 (U) \$14,150 IDECM F-15
 (U) \$3,219 Mission and Test Support
 (U) \$25,968 Total

The following net transactions are not reflected in the FY01 program total: BTR= \$1108K, SBIR= -\$825K. These transactions are not reflected in other sections of the RDocs where an FY01 total is shown.

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE June 2001			
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604270F EW Development				PROJECT 3945			
(U) <u>A. Mission Description Continued</u>											
(U) <u>FY 2002 (\$ in Thousands)</u>											
(U)	\$2,438	IDECM Common									
(U)	\$27,939	IDECM F-15									
(U)	\$4,551	Mission and Test Support									
(U)	\$34,928	Total									
(U) <u>B. Project Change Summary</u>											
<p>The IDECM program was restructured in June 98 and July 99 due to significant contract cost overruns. Impact to the USAF is a \$31M total increase in USAF IDECM RFCM contract cost share. Funding for the overrun was sourced from F-15 IDECM integration and resulted in delay to F-15 IDECM EMD. Due to F-15 IDECM slow down \$6.6M was removed from FY01 RDT&E funding during the FY01 ABES. A FY00 Congressional reduction of \$15M was also sourced from F-15 integration. As a result of the budget constraints, F-15 IDECM EMD activities were severely reduced in FY00 and the F-15 EMD program was rephased.</p> <p>F-15 IDECM funding in FY01 will support return to full EMD to support F-15 IDECM Milestone III production decision in FY06. Additionally, a zero balance transfer from F-15 IDECM production to RDT&E, resulted in a net increase to IDECM RDT&E funding of \$8.184M in FY03, \$16.681M in FY04 and \$6.983M in FY05.</p> <p>The B-1B DSUP program was zeroed out during the FY02 POM. As a result, all B-1 IDECM Initial Spares funds and IDECM procurement funds relating to the B-1B (BP-11) and decoys (BP-17) were removed from the program.</p>											
(U) <u>C. Other Program Funding Summary (\$ in Thousands)</u>											
	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>	
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>		
(U) AF RDT&E											
(U) Other APPN											
(U)	Aircraft Procurement, AF PE 27442F, War Consumable (RF towed decoys), BP-17	103,950	46,832	22,851	34,230	40,240	44,641	75,343	76,928	Continuing	Continuing
(U)	Aircraft Procurement, AF PE 27442F, Mods (B-1B), BP-11	0	0	0	0	0	0	0	0	Continuing	Continuing
(U)	Aircraft Procurement, AF PE 27442F, Mods (F-15), BP-11	0	0	0	0	0	22,873	23,358		Continuing	Continuing
Project 3945											
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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)										DATE June 2001																																																																																																																																																																																																							
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<p>(U) <u>D. Acquisition Strategy</u> The acquisition strategy for IDECM RDT&E was competitive, cost-plus incentive fee /award fee. The production contract will be sole source for first two lots with full and open competition in lots three and beyond.</p> <p>(U) <u>E. Schedule Profile</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 5%;"></th> <th colspan="4" style="text-align: center; border-bottom: 1px solid black;">FY 2000</th> <th style="width: 5%;"></th> <th colspan="4" style="text-align: center; border-bottom: 1px solid black;">FY 2001</th> <th style="width: 5%;"></th> <th colspan="4" style="text-align: center; border-bottom: 1px solid black;">FY 2002</th> </tr> <tr> <th></th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>(U) 1x 4 Dual Compatible Launcher Production Decision</td> <td style="text-align: center;">*</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) USN Operational Assessment Developmental Test & Evaluation (T&E) Start</td> <td></td> <td style="text-align: center;">*</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) USN IDECM DT&E Assist Start</td> <td></td> <td style="text-align: center;">*</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) B-1B Defensive Systems Upgrade Program (DSUP) Flight Test Ready Review</td> <td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td style="text-align: center;">X</td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) F-15 FOTD Critical Design Review (CDR) (Group A Hardware)</td> <td style="text-align: center;">*</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) F-15 FOTD PDR (Software)</td> <td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td style="text-align: center;">X</td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) F-15 FOTD CDR (Software)</td> <td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td> <td></td><td></td><td style="text-align: center;">X</td> <td></td> </tr> <tr> <td>(U) F-15/FOTD TRR (2Q04)</td> <td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) B-1B DSUP Developmental/Operational T&E</td> <td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td> <td></td><td style="text-align: center;">X</td> <td></td><td></td> </tr> <tr> <td>(U) F-15/FOTD DT/OT&E (3Q04)</td> <td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) USN IDECM Operational Evaluation (3Q02)</td> <td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td> <td></td><td></td><td></td><td style="text-align: center;">X</td> </tr> <tr> <td>(U) USN IDECM Low Rate Initial Production I (2Q01)</td> <td></td> <td></td><td></td><td></td><td style="text-align: center;">*</td> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) USN IDECM Milestone III (1Q03)</td> <td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> </tbody> </table> <p>Note: See Change Summary * - Denotes a completed event X - Denotes a planned event</p>														FY 2000					FY 2001					FY 2002					1	2	3	4	1	2	3	4	1	2	3	4	(U) 1x 4 Dual Compatible Launcher Production Decision	*												(U) USN Operational Assessment Developmental Test & Evaluation (T&E) Start		*											(U) USN IDECM DT&E Assist Start		*											(U) B-1B Defensive Systems Upgrade Program (DSUP) Flight Test Ready Review								X					(U) F-15 FOTD Critical Design Review (CDR) (Group A Hardware)	*												(U) F-15 FOTD PDR (Software)								X					(U) F-15 FOTD CDR (Software)											X		(U) F-15/FOTD TRR (2Q04)													(U) B-1B DSUP Developmental/Operational T&E										X			(U) F-15/FOTD DT/OT&E (3Q04)													(U) USN IDECM Operational Evaluation (3Q02)												X	(U) USN IDECM Low Rate Initial Production I (2Q01)					*								(U) USN IDECM Milestone III (1Q03)												
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE June 2001			
BUDGET ACTIVITY					PE NUMBER AND TITLE				PROJECT		
05 - Engineering and Manufacturing Development					0604270F EW Development				3945		
(U) <u>A. Project Cost Breakdown (\$ in Thousands)</u>											
							<u>FY 2000</u>	<u>FY 2001</u>		<u>FY 2002</u>	
(U)	Integrated Defensive Electronic Countermeasures (IDECM) Common						8,403	8,599		2,438	
(U)	IDECM F-15						4,423	14,150		27,939	
(U)	Mission and Test Support						2,547	3,219		4,551	
(U)	Total						15,373	25,968		34,928	
(U) <u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u>											
(U) <u>Performing Organizations:</u>											
<u>Contractor or</u>	<u>Contract</u>										
<u>Government</u>	<u>Method/Type</u>	<u>Award or</u>	<u>Performing</u>	<u>Project</u>							
<u>Performing</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Activity</u>	<u>Office</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>	
<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>	<u>Program</u>	
<u>Product Development Organizations</u>											
USAF IDECM: Development CPAF		Nov 95	47,733	47,733	39,355	2,766	5,612	0	Continuing	TBD	
BAE											
Development E-Systems, Goleta (ESGD)		CPIF	Jan 96	19,674	19,674	12,901	4,388	2,085	300	Continuing	TBD
F-15 IDECM Integration-McAir/Northrop/Lockheed Martin		CPFF	Aug 97	177,516	177,516	22,736	4,423	14,150	27,939	Continuing	TBD
IDECM Misc Development Contracts		Misc		6,509	6,509	4,036	1,249	902	2,138	Continuing	TBD
<u>Support and Management Organizations</u>											
ASC/SM/YF - IDECM		Misc	As required	N/A	3,102	1,184	2,004	3,451	Continuing	TBD	
<u>Test and Evaluation Organizations</u>											
AFOTEC				N/A	1,600	0	0	0	Continuing	TBD	
Edwards				N/A	156	500	846	600	Continuing	TBD	
Eglin				N/A	0	752	339	500	Continuing	TBD	
NRL				N/A	0	111	30	0	Continuing	TBD	
Project 3945					Page 23 of 33 Pages			Exhibit R-3 (PE 0604270F)			

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)					DATE June 2001	
BUDGET ACTIVITY		PE NUMBER AND TITLE			PROJECT	
05 - Engineering and Manufacturing Development		0604270F EW Development			3945	
(U) <u>Performing Organizations Continued:</u>						
* The funding prior to FY98 includes only FY97. The funding prior to FY97 was transferred from a classified PE. The total program and EACs include funding from FY97 and out because of the classified PE in FY96 and prior.						
		<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
		<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>
<u>Subtotals</u>						<u>Program</u>
Subtotal Product Development		79,028	12,826	22,749	30,377	TBD
Subtotal Support and Management		3,102	1,184	2,004	3,451	TBD
Subtotal Test and Evaluation		1,756	1,363	1,215	1,100	TBD
Total Project		83,886	15,373	25,968	34,928	TBD

Project 3945

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)

DATE

June 2001

BUDGET ACTIVITY

05 - Engineering and Manufacturing Development

PE NUMBER AND TITLE

0604270F EW Development

PROJECT

4832

COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
4832 Precision Location and Identification (PLAID)	10,947	13,376	1,827	0	0	0	0	0	0	30,320

(U) **A. Mission Description**

Precision Location and Identification (PLAID) will improve aircrew situational awareness by providing accurate ground emitter location and unambiguous identification. Threat systems can disrupt or negate operational missions, even without firing, by requiring aircrew reactions that affect mission objectives. Improved threat information from a modernized Radar Warning Receiver (RWR) will assist the aircrews in determining precise threat range/directions and provide option responses short of mission abort or violent aircraft maneuvering. Knowing threat location will help an aircrew respond 'real-time' to threats by providing accurate information to allow the aircrews to reroute around hostile areas. PLAID will utilize existing aircraft RWR antennas and wiring (Group A hardware). PLAID development is currently focused on the ALR-69 RWR but PLAID technology can also be applied to other RWRs. This project also contains funding for aircraft survivability enhancements not related to the PLAID program.

(U) **FY 2000 (\$ in Thousands)**

(U) \$10,565 Engineering and Manufacturing Development (EMD), Hardware/Software design/development/test
 (U) \$182 Program Office Support
 (U) \$200 System Engineering Support
 (U) \$10,947 Total

(U) **FY 2001 (\$ in Thousands)**

(U) \$9,426 Engineering and Manufacturing Development (EMD), Hardware/Software design/development/test
 (U) \$250 Program Office Support
 (U) \$200 System Engineering Support
 (U) \$3,500 Survivability enhancements (non-PLAID projects): \$2.5M for ALR-56C processor upgrade, \$0.7M for Comet Pod force development evaluation, and \$0.3M for contractor support efforts to host Pouncer 2 technology on a platform.
 (U) \$13,376 Total

The following net transactions are not reflected in the FY01 program total: BTR= -421K, and SBIR= -416K. These transactions are not reflected in other sections of the R-Docs where an FY01 total is shown.

Project 4832

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE June 2001			
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604270F EW Development			PROJECT 4832			
(U) <u>A. Mission Description Continued</u>										
(U) <u>FY 2002 (\$ in Thousands)</u>										
(U) \$250	Program Office Support									
(U) \$200	System Engineering Support									
(U) \$366	SOF C-130 SPD Support									
(U) \$1,011	Ground and Flight Test Support									
(U) \$1,827	Total									
(U) <u>B. Project Change Summary</u>										
Congress added \$4.5M in FY99 and \$11.5M in FY00 to PE64270F to transition PLAID from an advanced technology demonstration to EMD. Congress added \$10.0M in FY01 for PLAID EMD and \$3.5M in FY01 for other survivability enhancements (ALR-56C processor upgrade, Comet Pod, and contractor support).										
(U) <u>C. Other Program Funding Summary (\$ in Thousands)</u>										
	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) AF RDT&E	0	0	0	0	0	0	0	0		
(U) PE44011F Special Operations Forces	0	1,109	0	0	0	0		0	0	1,109
(U) PE27442F Common ECM Equipment				10,057	10,358	11,002	11,587	11,934	Continuing	TBD
(U) <u>D. Acquisition Strategy</u>										
Acquisition will be accomplished through full and open competitive procedures using source selection processes for award of contract. Contract award is scheduled for July 2001.										
(U) <u>E. Schedule Profile</u>										
		<u>FY 2000</u>				<u>FY 2001</u>			<u>FY 2002</u>	
	1	2	3	4	1	2	3	4	1	2
(U) Program Management Directive Approval							*			
(U) Milestone II Decision				*						
(U) Acquisition Strategy Approved					*					
(U) Request for Proposal Release						*				
Project 4832										

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)										DATE June 2001	
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604270F EW Development					PROJECT 4832	
(U) <u>E. Schedule Profile Continued</u>											
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <u>FY 2000</u> 1 2 3 4 1 </div> <div style="text-align: center;"> <u>FY 2001</u> 2 3 4 1 </div> <div style="text-align: center;"> <u>FY 2002</u> 2 3 4 </div> </div>											
(U) Source Selection Process Complete					X						
(U) Contract Award					X						
(U) Design Review					X						
(U) Integrated Defensive Avionics Lab					X						
(U) Test Readiness Review					X						
(U) C-130 Combined Development/Operational Test and Evaluation Start					X						
* - Denotes a completed event X - Denotes a planned event											

Project 4832
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE June 2001			
BUDGET ACTIVITY					PE NUMBER AND TITLE				PROJECT	
05 - Engineering and Manufacturing Development					0604270F EW Development				4832	
(U)	A. Project Cost Breakdown (\$ in Thousands)									
						<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>		
(U)	Program Office Support					182	250	250		
(U)	SOF C-130 Testing					0	0	1,011		
(U)	SOF C-130 SPD Support					0	0	366		
(U)	System Engineering Support					200	200	200		
(U)	Engineering and Manufacturing Development, Hardware/Software design/development/test					10,565	9,426	0		
(U)	Other Survivability Enhancements (ALR-56C processor upgrade, Comet Pod, and contractor support)					0	3,500	0		
(U)	Total					10,947	13,376	1,827		
(U)	B. Budget Acquisition History and Planning Information (\$ in Thousands)									
(U)	Performing Organizations:									
	<u>Contractor or</u>	<u>Contract</u>								
	<u>Government</u>	<u>Method/Type</u>	<u>Award or</u>	<u>Performing</u>	<u>Project</u>					
	<u>Performing</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Activity</u>	<u>Office</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
	<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>
	<u>Product Development Organizations</u>									
	WR-ALC/LNRC/ Contractor	Full and open	TBD	TBD	TBD	4,170	10,565	9,426	0	0
	TBD	competition/ CPAF								
	Survivability Enhancement	WR-ALC/LN	TBD/May	TBD	TBD	0	0	3,500	0	0
	Organizations	for ALR-56C	01							
		processor upgrade; ASC/SMN for Comet Pod								
Project 4832					Page 28 of 33 Pages			Exhibit R-3 (PE 0604270F)		

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE			
								June 2001			
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT			
05 - Engineering and Manufacturing Development				0604270F EW Development				4832			
(U) <u>Performing Organizations Continued:</u>											
<u>Support and Management Organizations</u>											
Engineering/McCauley Brown		616	Sep 01	TBD	TBD	0	200	200	200	0	600
Program Office		TBD	Sep 01	TBD	TBD	0	182	250	250	0	682
Support/LNRC											
SOF C-130 SPD		616	Oct 01	TBD	TBD	0	0	0	366	0	366
<u>Test and Evaluation Organizations</u>											
Western Test Range		616	Jun 01	TBD	TBD	0	0	0	261	0	261
Eglin Test Range		616	Oct 01	TBD	TBD	0	0	0	750	0	750
(U) <u>Government Furnished Property:</u>											
<u>Contract</u>											
<u>Method/Type</u>											
<u>Award or</u>											
<u>Obligation</u>											
<u>Delivery</u>											
<u>Total Prior</u>											
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<u>Description</u>											
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<u>Award or</u>											
<u>Obligation</u>											
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<u>Budget to</u>											
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<u>Subtotals</u>											
<u>to FY 2000</u>											
<u>FY 2000</u>											
<u>FY 2001</u>											
<u>FY 2002</u>											
<u>Complete</u>											
<u>Program</u>											
<u>Product Development Property</u>											
<u>Support and Management Property</u>											
<u>Test and Evaluation Property</u>											
<u>Subtotals</u>											
<u>to FY 2000</u>											
<u>FY 2000</u>											
<u>FY 2001</u>											
<u>FY 2002</u>											
<u>Complete</u>											
<u>Program</u>											
Subtotal Product Development											
Subtotal Support and Management											
Subtotal Test and Evaluation											
Total Project											
Project 4832											
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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)

DATE

June 2001

BUDGET ACTIVITY

05 - Engineering and Manufacturing Development

PE NUMBER AND TITLE

0604270F EW Development

PROJECT

8462

COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
8462 MALD	0	5,152	0	0	0	0	0	0	0	5,152

FY03-FY07 budget numbers do not reflect the DoD strategic review results.

(U) **A. Mission Description**

The Miniature Air Launched Decoy (MALD) is a low-cost decoy to stimulate enemy integrated air defenses (IADS) for detection, location, and both lethal and non-lethal suppression activities. MALD transitioned from a DARPA ACTD to USAF program management in December 2000. The program element funds final corrective actions to the ACTD configuration to support ACC's 'Silver Bullet' production of approximately 100 MALD vehicles.

(U) **FY 2000 (\$ in Thousands)**

(U) \$0 No Activity

(U) \$0 Total

(U) **FY 2001 (\$ in Thousands)**

(U) \$1,200 To complete retrofit of ACTD assets

(U) \$200 AFMSS Upgrade

(U) \$3,066 To complete pre-production enhancements and aircraft certification

(U) \$686 Program Office Support

(U) \$5,152 Total

The following transactions are not reflected in the FY01 program total: SBIR= -\$163K and a BTR= -\$46K. These transactions are not reflected in other sections of the R-Docs where an FY01 total is shown

(U) **FY 2002 (\$ in Thousands)**

(U) \$0 No Activity

(U) \$0 Total

(U) **B. Project Change Summary**

Congressional add of \$1.2M in FY01 to aid transition from ACTD. FY01 RDT&E funding (\$5.152M) extended contract to correct engine deficiencies prior to the start of MALD 'Silver Bullet' production.

Project 8462

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)										DATE June 2001		
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604270F EW Development					PROJECT 8462		
(U) <u>C. Other Program Funding Summary (\$ in Thousands)</u>												
	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>		
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>			
(U) AF RDT&E												
(U) Other APPN (PE 27442F, BP 17)			5,000						Continuing	TBD		
(U) USAF S&T (PE 63270F)	1,500											
(U) OSD (PE 63750D) RDT&E	2,000	3,000										
(U) DARPA (PE 62702E) RDT&E	296											
ACC has requested procurement of approximately 100 MALD air vehicles in the ACTD configuration with engine fixes.												
(U) <u>D. Acquisition Strategy</u>												
FY01 RDT&E funding will extend developmental activities from the ACTD to refine engine design and reduce GPS/SAS interference prior to start of 'Silver Bullet' production of approximately 100 MALDs being requested by the Combat Air Forces. The acquisition will be a sole-source, fixed price incentive fee.												
(U) <u>E. Schedule Profile</u>												
	<u>FY 2000</u>			<u>FY 2001</u>			<u>FY 2002</u>					
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Complete Engine Fix Flight Testing								X				
(U) SAS Phase 2					*							
(U) SAS Phase 3								X				
(U) SAS Flight Test										X		
(U) Container Redesign Complete							*					
(U) AFMSS rehost on PFPS									X			
(U) Pyro/Hazard/Disposal					*							
(U) F-16 Tech Orders										X		
(U) Silver Bullet Request for Proposal (RFP)								X				
(U) Silver Bullet Proposal Evaluation									X			
(U) Silver Bullet Production Decision									X			
(U) Silver Bullet Contract Award										X		
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE June 2001				
BUDGET ACTIVITY				PE NUMBER AND TITLE			PROJECT				
05 - Engineering and Manufacturing Development				0604270F EW Development			8462				
(U) <u>A. Project Cost Breakdown (\$ in Thousands)</u>											
					<u>FY 2000</u>		<u>FY 2001</u>	<u>FY 2002</u>			
(U)	To complete retrofit of ACTD assets				0		1,200	0			
(U)	To complete AFMSS upgrade				0		200	0			
(U)	To complete production enhancements and aircraft certification				0		3,066	0			
(U)	Program Office Support				0		686	0			
(U)	Total				0		5,152	0			
(U) <u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u>											
(U) <u>Performing Organizations:</u>											
	<u>Contractor or Government</u>	<u>Contract Method/Type or Funding</u>	<u>Award or Obligation</u>	<u>Performing Activity</u>	<u>Project Office</u>	<u>Total Prior to FY 2000</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>						
	<u>Product Development Organizations</u>										
	Northop Grumman - Ryan	CPFF	1 Nov 96	TBD	TBD	0	0	2,890	0	0	2,890
	Aeronautical Center										
	<u>Support and Management Organizations</u>										
	AAC/WMG					0	0	686	0	0	686
	<u>Test and Evaluation Organizations</u>										
	Eglin AFB					0	0	1,576	0	0	1,576
(U) <u>Government Furnished Property:</u>											
	<u>Item</u>	<u>Contract Method/Type or Funding</u>	<u>Award or Obligation</u>	<u>Delivery</u>		<u>Total Prior to FY 2000</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>							
	<u>Product Development Property</u>										
	<u>Support and Management Property</u>										
	<u>Test and Evaluation Property</u>										
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)				DATE			
				June 2001			
BUDGET ACTIVITY		PE NUMBER AND TITLE			PROJECT		
05 - Engineering and Manufacturing Development		0604270F EW Development			8462		
		<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Subtotals</u>		<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development		0	0	2,890	0	0	2,890
Subtotal Support and Management		0	0	686	0	0	686
Subtotal Test and Evaluation		0	0	1,576	0	0	1,576
Total Project		0	0	5,152	0	0	5,152

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