

## UNCLASSIFIED

PE NUMBER: 0604270F  
PE TITLE: EW Development

Exhibit R-2, RDT&E Budget Item Justification									DATE February 2005	
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)					PE NUMBER AND TITLE 0604270F EW Development					
Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	87.763	113.089	82.587	62.982	34.559	11.601	0.980	1.286	Continuing	TBD
1011 Joint Service Electronic Combat Systems Tester	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	48.434
3891 Advanced IR Counter Measures (AIRCM)	2.218	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	85.913
3945 TEWS Upgrade	17.520	20.721	8.514	4.082	2.064	2.936	0.980	1.286	Continuing	TBD
4832 Precision Location and Identification (PLAID)	29.346	29.392	5.524	5.915	0.000	0.000	0.000	0.000	0.000	92.463
8462 Airborne Electronic Attack	38.429	62.976	68.549	52.985	32.495	8.665	0.000	0.000	Continuing	TBD
BPAC 653891 (AIRCM) includes Advanced Strategic and Tactical Infrared Expendables (ASTE). Note: Details for B-52 SOJ (AEA) are being reported in new PE 0604429F.										
(U) <b><u>A. Mission Description and Budget Item Justification</u></b>										
This program element (PE) consolidates Air Force funding and management of common Electronic Warfare (EW) systems from engineering development through transition to operational capability. EW is an integral part of offensive and defensive Counterair, Counterland, and Countersea operations. EW systems influence, deceive, disrupt, degrade, deny, and destroy threats to air operations throughout the electro-magnetic spectrum. This PE supports Electronic Support Measures (ESM), Electronic Protection (EP), and Electronic Attack (EA). ESM programs support the collection, analysis and dissemination of information related to the detection, geolocation, characterization, and identification of threats to air operations. EP programs provide self-protection through active and passive measures that deceive threats to air operations. EA programs provide kinetic and non-kinetic means to defeat threats that rely on the electro-magnetic spectrum.										
This program is in budget activity 5 - System Development and Demonstration (SDD) because of the common development to meet user requirements that provide electronic warfare combat capability.										
(U) <b><u>B. Program Change Summary (\$ in Millions)</u></b>										
					<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>		
(U) Previous President's Budget					92.804	138.393	197.126	229.288		
(U) Current PBR/President's Budget					87.763	113.089	82.587	62.982		
(U) Total Adjustments					-5.041	-25.304				
(U) Congressional Program Reductions						-37.004				
Congressional Rescissions										
Congressional Increases						11.700				
Reprogrammings					-2.266					
SBIR/STTR Transfer					-2.775					
(U) <b><u>Significant Program Changes:</u></b>										

R-1 Shopping List - Item No. 71-2 of 71-27

Exhibit R-2 (PE 0604270F)

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Exhibit R-2, RDT&E Budget Item Justification		DATE <b>February 2005</b>
BUDGET ACTIVITY <b>05 System Development and Demonstration (SDD)</b>	PE NUMBER AND TITLE <b>0604270F EW Development</b>	
<p>- In FY04 LEWK program was cancelled.</p> <p>- In FY06 there was a total AF adjustment of -\$114.539M, primarily comprised of increases of \$28.0M for MALD/MALD-J and \$4.0M for the AT3 ACTD, a reduction of \$18.4M for B-52 Stand-Off Jammer, \$3.109M in Advanced IR Countermeasures to reflect completion of IR flare SDD, and the transfer of \$120.985M from PE 0604270F BPAC 658462 AEA to PE 0604429F AEA.</p> <p>- In FY07 there was a total AF adjustment of -\$166.306M, primarily comprised of increases of \$20.0M for MALD/MALD-J, \$46.9M for B-52 Stand-off Jammer, \$6.0M for the AT3 ACTD, and a reduction of \$3.149M in Advanced IR Countermeasures to reflect completion of IR flare SDD, and a transfer of \$235.45M from PE 0604270F BPAC 658462 AEA to PE 0604429F AEA.</p>		

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## Exhibit R-2a, RDT&amp;E Project Justification

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February 2005

BUDGET ACTIVITY 05 System Development and Demonstration (SDD)					PE NUMBER AND TITLE 0604270F EW Development			PROJECT NUMBER AND TITLE 1011 Joint Service Electronic Combat Systems Tester		
Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
1011 Joint Service Electronic Combat Systems Tester	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	48.434
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

FY2004, Project 651011, JSECST Follow-on Test Program Set (FOTPS) Engineering, Manufacturing and Development extended into FY04 due to late delivery of core test sets which were required to complete FOTPS development. Carry over of \$0.6M of FY03 RDT&E funding and internal reprogramming of \$0.75M FY04 funding to complete JSECST development effort.

(U) **A. Mission Description and Budget Item Justification**

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. 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 Follow-on Test Program Set (FOTPS) program will design, develop, assemble, integrate, test, and deliver TPSs for use with the CTS 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. Final effort is a study to investigate the technical feasibility and risks associated with the use of the USM-670 as a core tester on B-52 and SOF aircraft.

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Continue SPO Support	0.150			
(U) JSECST - 464 Study	0.100			
(U) Total Cost	0.250	0.000	0.000	0.000

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

	<u>FY 2004</u> <u>Actual</u>	<u>FY 2005</u> <u>Estimate</u>	<u>FY 2006</u> <u>Estimate</u>	<u>FY 2007</u> <u>Estimate</u>	<u>FY 2008</u> <u>Estimate</u>	<u>FY 2009</u> <u>Estimate</u>	<u>FY 2010</u> <u>Estimate</u>	<u>FY 2011</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U) AF RDT&E										
(U) Other APPN										
Aircraft Procurement, AF PE										
(U) 27442F (Common ECM	0.000	0.000	0.000	0.000	0.000	0.000			0.000	29.472
Equipment), In Service Direct										
Ground Support Equipment										
(U) Initial Spares	0.000	0.000	0.000	0.000	0.000	0.000			0.000	0.464

Project 1011

R-1 Shopping List - Item No. 71-4 of 71-27

Exhibit R-2a (PE 0604270F)

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## Exhibit R-2a, RDT&amp;E Project Justification

DATE

February 2005

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604270F EW Development

PROJECT NUMBER AND TITLE

1011 Joint Service Electronic Combat  
Systems Tester(U) C. Other Program Funding Summary (\$ in Millions)

(U) Total Aircraft Procurement	0.000	0.000	0.000	0.000	0.000	0.000	0.000	29.936
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(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.

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## Exhibit R-3, RDT&amp;E Project Cost Analysis

DATE

February 2005

## BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

## PE NUMBER AND TITLE

0604270F EW Development

## PROJECT NUMBER AND TITLE

1011 Joint Service Electronic Combat Systems Tester

(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2004 Cost	FY 2004 Cost	FY 2004 Award Date	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 Contract
(U) <u>Product Development</u>														
AAI	CPAF	Hunt Valley MD	26.922										26.922	
FO TPS AAI	CPIF	Hunt Valley MD	5.583									0.000	5.583	6.400
JSECSST - 464 Study	T&M	WR-ALC	0.000	0.100	Aug-04			0.000		0.000			0.100	
Subtotal Product Development			32.505	0.100		0.000		0.000		0.000		0.000	32.605	6.400
Remarks:														
(U) <u>Support</u>														
NAVAIR & Boeing TEWS Lab	MIPR	NAS Lakenhurst NJ & Boeing St Louis	6.861									0.000	6.861	
Subtotal Support			6.861	0.000		0.000		0.000		0.000		0.000	6.861	0.000
Remarks:														
(U) <u>Test &amp; Evaluation</u>														
53 EWG, 46TW	PR	Eglin AB FL	1.759			0.000		0.000		0.000		0.000	1.759	
Subtotal Test & Evaluation			1.759	0.000		0.000		0.000		0.000		0.000	1.759	0.000
Remarks:		Element includes detailed planning, support data reduction, and reports from testing activities.												
(U) <u>Management</u>														
ASC/AANT	Various	WPAFB, OH	5.488	0.150				0.000		0.000		0.000	5.638	
Subtotal Management			5.488	0.150		0.000		0.000		0.000		0.000	5.638	0.000
Remarks:		Costs include travel, office equipment, office supplies, printing, contract services, program management administration and communications expenses.												
(U) Total Cost			46.613	0.250		0.000		0.000		0.000		0.000	46.863	6.400

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

DATE

## February 2005

BUDGET ACTIVITY

## 05 System Development and Demonstration (SDD)

	PE NUMBER AND TITLE
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## 0604270F EW Development

[illegible]

## 1011 Joint Service Electronic Combat Systems Tester

# RDT&E Schedule Profile Milestones

[illegible]

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## Exhibit R-2a, RDT&amp;E Project Justification

DATE

February 2005

## BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

## PE NUMBER AND TITLE

0604270F EW Development

## PROJECT NUMBER AND TITLE

3891 Advanced IR Counter Measures (AIRC)

Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
3891 Advanced IR Counter Measures (AIRC)	2.218	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	85.913
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

\*Advanced Infrared Countermeasures (AIRC) contains the Advanced Strategic and Tactical IR Expendables (ASTE) project. ASTE will transition final products to OO-ALC under PE 28030F WRM Ammunition for procurement/sustainment in FY04/05.

(U) **A. Mission Description and Budget Item Justification**

The Advanced Infrared Countermeasure (AIRC) 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. ASTE will provide advanced IR expendable countermeasures that will be functionally compatible with existing ALE-40, 45, and 47 dispenser systems and will be employed across multiple USAF weapon systems including the USN F/A-18 E/F. This also explicitly includes any and all flare and decoy development that may be demanded or needed in current operations supporting the war on terrorism regardless of aircraft platform. These activities may also be paid for under platform specific funding.

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Continue ASTE Flare Development and Transition	2.218	0.000	0.000	0.000
(U) Total Cost	2.218	0.000	0.000	0.000

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

	<u>FY 2004</u> <u>Actual</u>	<u>FY 2005</u> <u>Estimate</u>	<u>FY 2006</u> <u>Estimate</u>	<u>FY 2007</u> <u>Estimate</u>	<u>FY 2008</u> <u>Estimate</u>	<u>FY 2009</u> <u>Estimate</u>	<u>FY 2010</u> <u>Estimate</u>	<u>FY 2011</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U) AF RDT&E										
(U) Other APPN										
(U) Procurement of Ammunition, AF, PE 28030F, WSC Flares	31.606	5.776	36.914	41.735	95.727	146.227	123.326	131.579	Continuing	TBD

(U) **D. Acquisition Strategy**

The planned acquisition strategy for ASTE is competitive cost-plus.



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## Exhibit R-3, RDT&amp;E Project Cost Analysis

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## BUDGET ACTIVITY

## 05 System Development and Demonstration (SDD)

## PE NUMBER AND TITLE

0604270F EW Development

## PROJECT NUMBER AND TITLE

3891 Advanced IR Counter Measures  
(AIRCM)

(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract</u> <u>Method &amp;</u> <u>Type</u>	<u>Performing</u> <u>Activity &amp;</u> <u>Location</u>	<u>Total</u> <u>Prior to FY</u> <u>2004</u> <u>Cost</u>	<u>FY 2004</u> <u>Cost</u>	<u>FY 2004</u> <u>Award</u> <u>Date</u>	<u>FY 2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Award</u> <u>Date</u>	<u>FY 2006</u> <u>Cost</u>	<u>FY 2006</u> <u>Award</u> <u>Date</u>	<u>FY 2007</u> <u>Cost</u>	<u>FY 2007</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>	<u>Target</u> <u>Value of</u> <u>Contract</u>
(U) <u>Product Development</u>														
ASTE - Development	CP		17.962	0.770		0.000		0.000		0.000			18.732	
Subtotal Product Development			17.962	0.770		0.000		0.000		0.000		0.000	18.732	0.000
Remarks:														
(U) <u>Support</u>														
ASTE M&S	PR		1.904	0.299		0.000							2.203	
ASTE - Misc	Various		36.727	0.068		0.000							36.795	
													0.000	
Subtotal Support			38.631	0.367		0.000		0.000		0.000		0.000	38.998	0.000
Remarks:														
(U) <u>Test &amp; Evaluation</u>														
ASTE - 46TW	Various		1.644	0.178		0.000							1.822	
ASTE - Misc	Various		0.293	0.011		0.000							0.304	
46TW/AFFTC/ Support	Various		17.092										17.092	
Subtotal Test & Evaluation			19.029	0.189		0.000		0.000		0.000		0.000	19.218	0.000
Remarks:														
(U) <u>Management</u>														
A&AS contractor support				0.892									0.892	
Subtotal Management			0.000	0.892		0.000		0.000		0.000		0.000	0.892	0.000
Remarks:														
(U) Total Cost			75.622	2.218		0.000		0.000		0.000		0.000	77.840	0.000

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

DATE

## February 2005

BUDGET ACTIVITY

## 05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

## 0604270F EW Development

[illegible]

### 3891 Advanced IR Counter Measures (AIRCM)

# RDT&E Schedule Profile Milestones

[illegible]

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## Exhibit R-2a, RDT&amp;E Project Justification

DATE

February 2005

BUDGET ACTIVITY					PE NUMBER AND TITLE			PROJECT NUMBER AND TITLE		
05 System Development and Demonstration (SDD)					0604270F EW Development			3945 TEWS Upgrade		
Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
3945 TEWS Upgrade	17.520	20.721	8.514	4.082	2.064	2.936	0.980	1.286	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

This program develops a Fiber Optic Towed Decoy (FOTD) for the joint Integrated Defensive Electronic Countermeasures (IDECM) Navy-led program. The current AF approved program will provide a FOTD that meets F-15 requirements and will include a Reel-In/Reel-Out (RORI) launcher capability in FY07.

(U) **A. Mission Description and Budget Item Justification**

(1) This program develops and integrates an Air Force Fiber Optic Towed Decoy (FOTD) system. The FOTD portion of the budget provides Air Force participation in the Navy-led IDECM program that is jointly developing, integrating, flight testing, effectiveness testing, and conducting live fire testing using a FOTD. The Air Force will provide for its unique development, integration and testing requirements that are not covered by the Navy-led joint development effort. The Air Force also participates in a joint FOTD risk reduction effort with the Navy looking at alternate FOTDs and methods of deployment to develop an alternative launcher system (Reel-Out/Reel-In [RORI]), which reduces Life Cycle Cost.

(2) The FOTD improves electronic countermeasure performance against Tier 1 threat systems, and improves electronic warfare system performance against future missile threat systems. The Radio Frequency (RF) towed decoy is a countermeasure that increases survivability against monopulse, semi-active, and active RF missile threats during the terminal portion of an engagement. Boeing Study on going to finalize requirements for integration of FOTD on F-15.

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) F-15 ( F-15 TEWS & Two Tube FOTD & Flight Test)	13.215	3.277	1.662	0.500
(U) FOTD Integration, Live Fire Testing, and RORI	2.092	13.696	5.237	0.681
(U) EW Studies		2.000		2.000
(U) Mission and Test Support	2.213	1.748	1.615	0.901
(U) Total Cost	17.520	20.721	8.514	4.082

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

	<u>FY 2004</u> <u>Actual</u>	<u>FY 2005</u> <u>Estimate</u>	<u>FY 2006</u> <u>Estimate</u>	<u>FY 2007</u> <u>Estimate</u>	<u>FY 2008</u> <u>Estimate</u>	<u>FY 2009</u> <u>Estimate</u>	<u>FY 2010</u> <u>Estimate</u>	<u>FY 2011</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
Aircraft Procurement, AF PE										
(U) 027442F, War Consumable (RF decoys)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Aircraft Procurement, AF PE										
(U) 027442F, Initial Spares	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Aircraft Procurement, AF PE										
(U) 027442F, Mods (F-15)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(U) **D. Acquisition Strategy**

Project 3945

R-1 Shopping List - Item No. 71-13 of 71-27

Exhibit R-2a (PE 0604270F)

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Exhibit R-2a, RDT&E Project Justification		DATE
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT NUMBER AND TITLE
05 System Development and Demonstration (SDD)	0604270F EW Development	3945 TEWS Upgrade
<p>The acquisition strategy for IDECM RDT&amp;E was competitive, cost-plus incentive fee / award fee.</p>		
<p>Project 3945</p>		
<p>R-1 Shopping List - Item No. 71-14 of 71-27</p>		
<p>Exhibit R-2a (PE 0604270F)</p>		

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Exhibit R-3, RDT&E Project Cost Analysis												DATE February 2005		
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE				
05 System Development and Demonstration (SDD)					0604270F EW Development					3945 TEWS Upgrade				
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2004 Cost	FY 2004 Cost	FY 2004 Award Date	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 Contract
(U) <u>Product Development</u>														
USAF IDECM: Development BAE	CPAF	BAE, Nashua, NH	47.306			0.000						0.000	47.306	
Development Raytheon	CPIF	Raytheon, Goleta, CA	17.722			0.000						0.000	17.722	
F-15 IDECM Integration- Boeing/LMT/Northrop	CPFF	Boeing Company, St Louis, MO	49.293	10.000	Nov-03	0.000						0.000	59.293	
USAF IDECM: Development BAE (Navy BOA)	CPFF	BAE, Nashua, NH	2.417	0.606	Apr-04	0.356	Nov-04	0.400	Nov-05			0.000	3.779	
Raytheon Development (FO-50 Two Tube)	CPFF	Raytheon, Goleta, CA	2.660	3.215	Apr-04	1.250	Mar-05	1.662	Jan-06			0.000	8.787	
IDECM Misc Development Contracts (IMPLC/Alt. Strategy/Flt Test Assets)	Various	Misc	3.191	0.886		1.989		1.422		0.200		0.000	7.688	
RORI Launcher Prototype/Development	CPFF	Raytheon, CA & BAE, NH		0.600	Aug-04	4.714	Nov-04	3.815	Nov-05	0.400	Nov-06	0.000	9.529	
EW Studies	Various	Misc				2.000				2.000			4.000	
Subtotal Product Development			122.589	15.307		10.309		7.299		2.600		0.000	158.104	0.000
Remarks:														
(U) <u>Support</u>														
ASC/AA - IDECM	Various	Misc	4.848	1.363		1.183		1.215		0.901		0.000	9.510	
Subtotal Support			4.848	1.363		1.183		1.215		0.901		0.000	9.510	0.000
Remarks:														
(U) <u>Test &amp; Evaluation</u>														
AFOTEC	Various	Misc	1.600									0.000	1.600	
Flight Test Support (Effectiveness Testing)	Various	Misc	0.156			0.000						0.000	0.156	
Eglin Flight Test Support	Various	Misc	2.939	0.450		1.000				0.500		0.000	4.889	
Naval Research Lab (NRL)	Various	Misc	0.678	0.400		0.315						0.000	1.393	
Live Fire Test	Various	Misc	1.232			7.914				0.081		0.000	9.227	
Subtotal Test & Evaluation			6.605	0.850		9.229		0.000		0.581		0.000	17.265	0.000
Remarks:														
(U) <u>Management</u>														
Subtotal Management			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
Remarks:														
(U) Total Cost			134.042	17.520		20.721		8.514		4.082		0.000	184.879	0.000
Project 3945			R-1 Shopping List - Item No. 71-15 of 71-27							Exhibit R-3 (PE 0604270F)				

Project 3945

R-1 Shopping List - Item No. 71-15 of 71-27

Exhibit R-3 (PE 0604270F)

## Exhibit R-4, RDT&amp;E Schedule Profile

DATE

February 2005

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604270F EW Development

PROJECT NUMBER AND TITLE

3945 TEWS Upgrade

# RDT&E Schedule Profile

## Milestones

ID	Task Name	2004			2005				2006				2007	
		Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
1	DACP FY04 Efforts	★												
2	Live Fire FY04 Efforts	★												
3	FOTD RORI Stability Flt Test Phase 1			★										
4	Reel-In/Reel-Out (RORI) Prototype Launcher Ktr Awd			★										
5	DACP FY05 Efforts				★									
6	F-15 Alt Launcher Location Study					☆								
7	FOTD RORI Stability Flt Test Phase 2					☆								
8	RORI TIM #1 (PDR)					☆								
9	Live Fire FY05 Efforts					☆								
10	FOTD Envelope Expansion Flt Test					☆								
11	RORI TIM #2 (CDR)							☆						
12	RORI Launcher Prototype Demo Flt Test								☆					
13	FOTD Envelope Expansion Final Flt Test								☆					
14	RORI Development Ktr Awd									☆				
15	FOTD Effectiveness Flt Test									☆				
16	Electronic FOTD Fast Deploy Flt Test										☆			
17	RORI Final Launcher Flt Test												☆	

## UNCLASSIFIED

## Exhibit R-4a, RDT&amp;E Schedule Detail

DATE

February 2005

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604270F EW Development

PROJECT NUMBER AND TITLE

3945 TEWS Upgrade

(U) **Schedule Profile**FY 2004FY 2005FY 2006FY 2007

(U) Defense Acquisition Challenge Program FY04 Efforts

2-4Q

(U) Live Fire FY04 Efforts

2-3Q

(U) FOTD RORI Stability Flight Test Phase I

4Q

(U) Reel-Out/Reel-In (RORI) Prototype Launcher Contract Award

4Q

(U) Defense Acquisition Challenge Program FY05 Efforts

1-4Q

(U) F-15 Alternate Launcher Location Study

2-4Q

(U) FOTD RORI Stability Flight Test Phase II

2Q

(U) RORI TIM 1 (PDR)

2Q

(U) Live Fire FY05 Efforts

2-3Q

(U) FOTD Envelope Expansion Flight Test

3-4Q

(U) RORI TIM 2 (CDR)

4Q

(U) RORI Launcher Prototype Demo Flight Test

1Q

(U) FOTD Envelope Expansion Final Flight Test

2-3Q

(U) RORI Development Contract Award

2Q

(U) Electronic FOTD Fast Deploy Flight Test

2-3Q

(U) FOTD Effectiveness Flight Test

2Q

(U) RORI Launcher Final Flight Test

2Q



## UNCLASSIFIED

## Exhibit R-2a, RDT&amp;E Project Justification

DATE

February 2005

## BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

## PE NUMBER AND TITLE

0604270F EW Development

## PROJECT NUMBER AND TITLE

4832 Precision Location and Identification (PLAID)

Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
4832 Precision Location and Identification (PLAID)	29.346	29.392	5.524	5.915	0.000	0.000	0.000	0.000	0.000	92.463
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) **A. Mission Description and Budget Item Justification**

(1) 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, where feasible, utilize existing aircraft RWR antennas and wiring (Group A hardware). Some platform modifications may be necessary to optimize geolocation performance and minimize electromagnetic interference. PLAID development is currently focused on the ALR-69A RWR, but PLAID technology can also be applied to other RWRs. Multiple platform geolocation capability is being developed under an OSD and CENTCOM sponsored Advanced Tactical Targeting Technology (AT3) Advanced Concept Technology Demonstration (ACTD). A plan to develop this technology for US Armed Forces airborne platforms has been approved. Additional related enhancements such as the capability to identify specific ground emitters (Specific Emitter ID or SEI) are under consideration.

(2) In FY04 and FY05 Congress added \$3.9M and \$2.3M AF RDT&E funds respectively to the EW Development PE 64270F for "Rapid Replacement of Mission Critical Logistics Electronics Components" (RRMCLEC). In FY05 congress added \$5.4M to the EW Development PE for "AN/ALQ-172 Airborne Electronic Attack (AEA) Upgrade." RRMCLC and ALQ-172 AEA Upgrade work is being performed at Warner-Robins Air Logistics Center in the same directorate as PLAID (WRALC/LS). The Air Force is therefore using the PLAID program office to track these funds. RRMCLC will rapidly develop prototypes of replacement electronic components and subassemblies to combat obsolescence and vanishing vendor issues in Electronic Warfare systems. ALQ-172 AEA Upgrade will resolve all hardware and software deficiencies, increase system reliability and maintainability, reduce system weight and power consumption, provide growth capability, and update the receiver to the service life extension program (SLEP) configuration creating a baseline for an AEA receiver.

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Program Office and Engineering Support	0.460	3.305	0.500	1.100
(U) CORE SDD/Options/Award Fees	20.752	12.304	3.000	2.700
(U) SOF C-130 CORE Platform Integration - SOF C130 CORE/AT3 ACTD	3.579	3.544	1.024	1.115
(U) DT&E/OT&E - SOF C130 CORE/AT3 ACTD	0.655	2.539	1.000	1.000
(U) Rapid Replacement of Mission Critical Logistics Electronic Components	3.900	2.300		
(U) ALQ-172 Airborne Electronic Attack (AEA) Upgrade		5.400		
(U) Total Cost	29.346	29.392	5.524	5.915

## Exhibit R-2a, RDT&amp;E Project Justification

DATE

February 2005

## BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

## PE NUMBER AND TITLE

0604270F EW Development

## PROJECT NUMBER AND TITLE

4832 Precision Location and Identification (PLAID)

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</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) DARPA Funding (ACTD/AT3)	1.300								1.300	
(U) OSD Funding (ACTD/AT3)	5.000	5.000	4.000						14.000	
(U) PE27442F Common ECM Equipment	0.000	0.000	11.077	11.454	10.090	10.396	0.000		49.091	TBD
PE41115F ALR-69 (RWR) AMC C-130 Airlift										
(U) Squadrons. PLAID procurement to commence in FY04	0.394	0.000	15.812	38.935	53.081	41.136	20.716	9.030	169.151	TBD

(U) **D. Acquisition Strategy**

Acquisition was accomplished through full and open competition. The SDD contract was awarded to Raytheon Corporation in August 2001.

Program is based on 'Evolutionary Acquisition Strategy'.

- CORE SDD: SOF-130 DT/OT (addresses 3 of 4 KPPs)
- Option 1: F-16 DT/OT
- Option 2: Risk Reduction, AT3 Bridge Requirements Definition
- Option 3: F-16 Geo-Location (4th KPP)
- Option 4: SOF-130 Geo-Location (4th KPP)
- Options 5-10: Production
- Option 11: Advanced Tactical Targeting Technology (AT3)

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Exhibit R-3, RDT&E Project Cost Analysis												DATE February 2005		
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)						PE NUMBER AND TITLE 0604270F EW Development					PROJECT NUMBER AND TITLE 4832 Precision Location and Identification (PLAID)			
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2004 Cost	FY 2004 Cost	FY 2004 Award Date	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 Contract
(U) Product Development														
Raytheon CORE SDD + Fee	Full & Open Comp CPAF	Raytheon - Goleta CA		12.452	Jan-04	5.000	Feb-05	3.000	Nov-05	2.700		0.000	23.152	23.152
Raytheon Option 3/4 SDD + Fee	Full & Open Comp CPAF	Raytheon - Goleta CA		5.440	Apr-04							0.000	5.440	5.440
Raytheon Option 11 AT3 + Fee	Sole Source - Raytheon	Raytheon - Goleta CA		2.860		7.304						0.000	10.164	8.384
Subtotal Product Development			0.000	20.752		12.304		3.000		2.700		0.000	38.756	36.976
Remarks:														
(U) Support														
AT3 Program Office Support	PR	Various Contractors				1.255	Oct-04					0.000	1.255	1.255
Program Office			0.460	Aug-04	0.550	Oct-04		0.600		1.610	1.610			
Engineering	Various					1.500	Nov-04	0.500	Nov-05	0.500		0.000	2.500	2.500
Subtotal Support			0.000	0.460		3.305		0.500		1.100		0.000	5.365	5.365
Remarks:														
(U) Test & Evaluation														
AFOTEC Det 1 46 OGS C-130	PO			0.655	Sep-04	1.800	Nov-05	1.000	Nov-05	1.000		0.000	4.455	4.455
AT3 ACTD T&E (Western Test Range)	PO					0.739	Oct-04						0.739	0.739
Subtotal Test & Evaluation			0.000	0.655		2.539		1.000		1.000		0.000	5.194	5.194
Remarks:														
(U) Platform Integration - C-130, F-16 AT3 ACTD				3.579	Jul-04	3.544	Feb-05	1.024	Nov-05	0.720		0.000	8.867	7.027
Platform Integration Options 3/4										0.395			0.395	0.395
Subtotal			0.000	3.579		3.544		1.024		1.115		0.000	9.262	7.422
Remarks:														
(U) Rapid Replacement of Mission Critical Logistics Electronic Components				3.900	Mar-04	2.300							6.200	3.900
ALQ-172 AEA Upgrade						5.400							5.400	
Subtotal			0.000	3.900		7.700		0.000		0.000		0.000	11.600	3.900
Remarks:														
(U) Total Cost			0.000	29.346		29.392		5.524		5.915		0.000	70.177	58.857
Project 4832			R-1 Shopping List - Item No. 71-20 of 71-27									Exhibit R-3 (PE 0604270F)		

## Exhibit R-4, RDT&amp;E Schedule Profile

DATE

February 2005

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

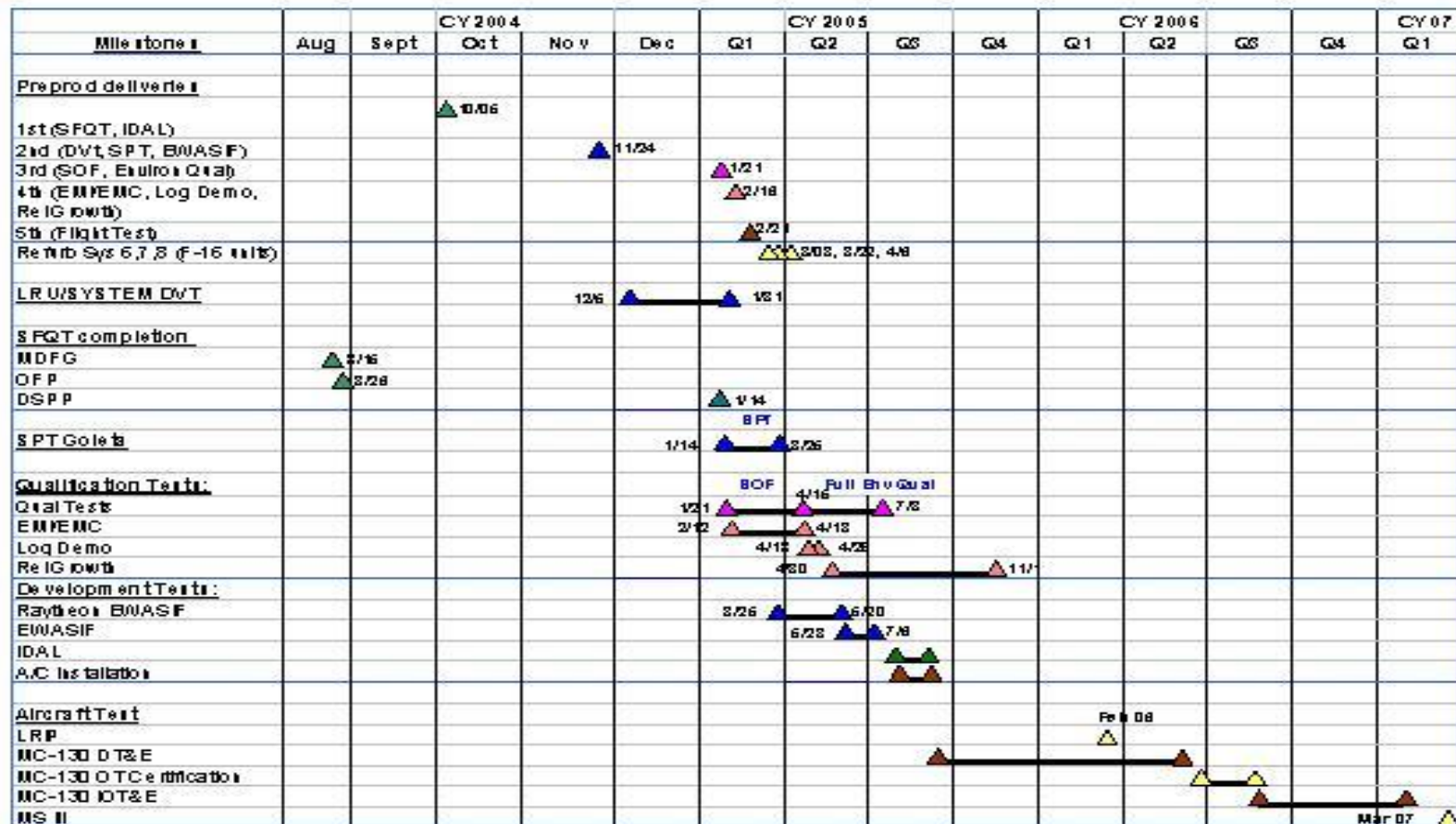
PE NUMBER AND TITLE

0604270F EW Development

PROJECT NUMBER AND TITLE

4832 Precision Location and Identification (PLAID)

## ALR-69A CORE Schedule



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Exhibit R-4a, RDT&E Schedule Detail		DATE
BUDGET ACTIVITY <b>05 System Development and Demonstration (SDD)</b>		PROJECT NUMBER AND TITLE <b>4832 Precision Location and Identification (PLAID)</b>
PE NUMBER AND TITLE <b>0604270F EW Development</b>		
(U) <b><u>Schedule Profile</u></b>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Developmental Testing and Evaluation		3Q
(U) Initial Operational Test and Evaluation		4Q
(U) LRIP Decision		2Q
(U) MSIII Decision		2Q
<div>Project 4832</div> <div>R-1 Shopping List - Item No. 71-22 of 71-27</div> <div>Exhibit R-4a (PE 0604270F)</div>		

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## Exhibit R-2a, RDT&amp;E Project Justification

DATE

February 2005

BUDGET ACTIVITY					PE NUMBER AND TITLE			PROJECT NUMBER AND TITLE		
<b>05 System Development and Demonstration (SDD)</b>					<b>0604270F EW Development</b>			<b>8462 Airborne Electronic Attack</b>		
Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
8462 Airborne Electronic Attack	38.429	62.976	68.549	52.985	32.495	8.665	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

In FY 2006 Airborne Electronic Attack transfers from Project 658462 (formerly called Airborne Electronic Attack) to PE 0604429F, Airborne Electronic Attack, Project 655192, Network and System-of-Systems Development and Project 655193, B-52 Stand-off Jammer. Project 658462 continues to develop the Miniature Air Launched Decoy (MALD).

(U) **A. Mission Description and Budget Item Justification**

This project develops the Miniature Air Launched Decoy (MALD) and its jammer variant, Miniature Air Launched Decoy Jammer (MALD-J). MALD is a low-cost decoy to stimulate enemy integrated air defense systems (IADS) for detection, location, and both lethal and non-lethal suppression activities. MALD-J will jam radars within the no escape zone of enemy surface-to-air missiles to degrade or deny the enemy's air defense system ability to detect and track friendly aircraft or munitions. The MALD-J is a critical piece of the joint Airborne Electronic Attack System of Systems.

Both decoy and jammer configurations are key enablers supporting the Air Force Global Strike, Global Response, Space and C4ISR, and the Air and Space Expeditionary Force Concepts of Operations. Planned efforts for this program are System Development and Demonstration (SDD) which began in FY03 with a competitive contract award of the decoy configuration. This will include design, development and seamless verification of the decoy vehicle. A spiral to a MALD-J development will begin in FY06 with a modification to the current MALD contract.

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) MALD and MALD-J SDD Contract	26.694	34.330	53.314	40.103
(U) MALD Program Office Support (Government)	1.930	2.358	2.615	2.863
(U) MALD / MALD-J B-52 Aircraft Integration	6.729	3.250	2.808	2.190
(U) MALD / MALD-J Mission and Test Support	2.876	1.658	9.638	7.149
(U) MALD / MALD-J F-16 Aircraft Integration	0.200	0.120	0.174	0.680
(U) AEA Synchronization Office Support		0.850		
(U) AEA System of systems engineering / architecture development / refine requirements		4.150		
(U) B-52 SOJ Program Office Support		2.149		
(U) B-52 SOJ Pre-SDD Preparation		2.200		
(U) Low Band Phased Array Tech Development		11.911		
(U) Total Cost	38.429	62.976	68.549	52.985

Note: FY2005 funding details for B-52 SOJ are being reported in the new PE 0604429F.

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</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)				34.976	135.672	97.576	85.972	85.588	Continuing	TBD

Project 8462

R-1 Shopping List - Item No. 71-23 of 71-27

Exhibit R-2a (PE 0604270F)

Exhibit R-2a, RDT&E Project Justification		DATE <b>February 2005</b>
BUDGET ACTIVITY <b>05 System Development and Demonstration (SDD)</b>	PE NUMBER AND TITLE <b>0604270F EW Development</b>	PROJECT NUMBER AND TITLE <b>8462 Airborne Electronic Attack</b>
<p>(U) <b><u>C. Other Program Funding Summary (\$ in Millions)</u></b>  MALD procurement)  MALD production funding begins in FY07.</p> <p>(U) <b><u>D. Acquisition Strategy</u></b>  A full and open competition for MALD was held in FY03 resulting in award of a cost plus award fee contract to Raytheon. Spiral to MALD-J is planned for FY06 with anticipated award of a cost plus award fee contract to Raytheon.</p>		
<p>Project 8462</p> <p>R-1 Shopping List - Item No. 71-24 of 71-27</p> <p>Exhibit R-2a (PE 0604270F)</p>		

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## Exhibit R-3, RDT&amp;E Project Cost Analysis

DATE

February 2005

BUDGET ACTIVITY					PE NUMBER AND TITLE						PROJECT NUMBER AND TITLE				
05 System Development and Demonstration (SDD)					0604270F EW Development						8462 Airborne Electronic Attack				
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2004 Cost	FY 2004 Cost	FY 2004 Award Date	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 Contract	
(U) <u>Product Development</u> MALD SDD ACTD	CPFF	Northrop Grumman - Ryan Aeronautical Center	40.074										40.074		
MALD / MALD-J SDD	CPAF	Raytheon Missile Systems, Tucson AZ	7.938	26.584		34.310		53.314		38.024		Continuing	TBD	102.033	
MALD/MALD-J B-52 Aircraft Integration	MIPR	B-52 SPO	0.765	6.729	Oct-03	3.250		2.808		2.190		16.402	32.144	24.494	
MALD/MALD-J F-16 Aircraft Integration	MIPR	F-16 SPO	0.069	0.585	Oct-03	0.120		0.174		0.680		3.665	5.293	5.469	
AEA System of Systems Engineering	MIPR, CPFF	Various				3.350						Continuing	TBD	TBD	
B-52 SOJ Pre-SDD Preparation	TBD	TBD				2.200	Mar-05					0.000	2.200		
B-52 SOJ SDD	TBD	TBD				11.911						643.400	655.311		
Subtotal Product Development			48.846	33.898		55.141		56.296		40.894		Continuing	TBD	TBD	
Remarks:															
(U) <u>Support</u>															
Contractor Support to AAC/YAZM	Various	Various	2.792	1.373		1.571		1.863		1.907		4.746	14.252	7.787	
AEA Synchronization Office Support	MIPR	Various				0.850						Continuing	TBD	TBD	
B-52 SOJ Program Office Support	Various	Various				2.049						Continuing	TBD		
													0.000		
Subtotal Support			2.792	1.373		4.470		1.863		1.907		Continuing	TBD	TBD	
Remarks:															
(U) <u>Test &amp; Evaluation</u>															
MALD Government Test Planning	Various	Various	5.390	2.491		1.575		9.638		9.229		11.729	40.052	20.056	
AEA Virtual Test / AFEWICS	Various	Various										Continuing	TBD	TBD	
B-52 SOJ Mission and Test Support						0.100						Continuing	TBD		
Subtotal Test & Evaluation			5.390	2.491		1.675		9.638		9.229		Continuing	TBD	TBD	
Remarks: Element includes detailed planning, support data reduction and reports from such testing.															
(U) <u>Management</u>															
AAC/YAZM (MALD)	Various	AAC, Eglin AFB FL	5.346	0.667		0.740		0.752		0.955		1.375	9.835	9.319	
ASC/LRS (B-52 DSO)						0.100						Continuing	TBD		
ASC/XR (AEA Synch Office)						0.850						Continuing	TBD		
Subtotal Management			5.346	0.667		1.690		0.752		0.955		Continuing	TBD	9.319	
Remarks: Element includes miscellaneous administrative costs incurred in the day-to-day operations by the program office. Costs include travel, office equipment, office supplies, printing, contract services, program management administration and communications expenses.															
(U) Total Cost			62.374	38.429		62.976		68.549		52.985		Continuing	TBD	TBD	
Project 8462			R-1 Shopping List - Item No. 71-25 of 71-27									Exhibit R-3 (PE 0604270F)			



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

DATE \_\_\_\_\_

February 2005

BUDGET ACTIVITY

## 05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE
---------------------

**0604270F EW Development**

PROJECT NUMBER AND TITLE	
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## 8462 Airborne Electronic Attack



**U.S. AIR FORCE**

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## MALD Overview Schedule



Fiscal Year	2003		2004				2005				2006				2007				2008				2009				
Quarter	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Milestones	◆ CA	◆ IBR		◆ SRR			◇ PDR		◇ CDR		◇ IDR		◇ FRR		◇ Milestone C		◇ FDR/PPRR	◇ SDD	◇ FRP								
MALD Development																											
Aircraft Integration							◆ Env/Captives	◇	◇		◇ Jettison																
OFS Development							Bld 1	Bld 2	Bld 3	Bld 4	Refine/ Test	Fit Cert Testing															
MALD Demo/Verification																											
Ground Test and Verification																											
Flight Test and Verification																◆ A-3 Captive	◇ Seamless Fit Test	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇
IOT&E											◆ Mat'l Rel														◇ 10 Assets		

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Project 8462

R-1 Shopping List - Item No. 71-26 of 71-27

Exhibit R-4 (PE 0604270F)

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## Exhibit R-4a, RDT&amp;E Schedule Detail

DATE

February 2005

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604270F EW Development

PROJECT NUMBER AND TITLE

8462 Airborne Electronic Attack

(U) **Schedule Profile**FY 2004FY 2005FY 2006FY 2007

(U) MALD Integrated Baseline Review

1Q

(U) MALD Systems Requirements Review

3Q

(U) MALD Preliminary Design Review

2Q

(U) MALD Critical Design Review

3Q

(U) MALD-J Spiral Start

2Q

(U) MALD Incremental Design Review

3Q

(U) MALD Flight Readiness Review

1Q