

UNCLASSIFIED

PE NUMBER: 0604270F
 PE TITLE: EW Development

Exhibit R-2, RDT&E Budget Item Justification	DATE May 2009
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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604270F EW Development
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Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	76.169	56.342	97.275	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
4832 Precision Location and Identification (PLAID)	12.907	1.503	2.458	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
5305 MALD-J	0.000	0.000	94.817	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
8462 Miniature Air Launched Decoy	63.262	54.839	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

MALD-J efforts, 655305, were part of 658462, MALD, prior to FY10. No efforts are considered New Starts in FY10/11.

(U) A. Mission Description and Budget Item Justification

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 Counter-air, 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 (ES), Electronic Protection (EP), and Electronic Attack (EA). ES programs support the collection, analysis, and dissemination of information related to the detection, geo-location, 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. Program Change Summary (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget	102.601	54.995	86.443
(U) Current PBR/President's Budget	76.169	56.342	97.275
(U) Total Adjustments	-26.432	1.347	
(U) Congressional Program Reductions			
Congressional Rescissions	-14.500	-0.153	
Congressional Increases	1.600	1.500	
Reprogrammings	-11.168		
SBIR/STTR Transfer	-2.364		

(U) Significant Program Changes:

- FY08, Project 658462, \$14.5M of MALD funds rescinded
- FY08 funds reprogrammed for higher Air Force priorities
- FY08 654832 Congress added \$1.6M for Rapid Replacement of Mission Critical Logistics Electronic Components (RRMCLEC). -FY09 654832 Congress added \$1.5M

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05 System Development and Demonstration (SDD)

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0604270F EW Development

for RRMCLEC.

-FY2010 Project 658462, funds added for continued development of MALD-J

Exhibit R-2a, RDT&E Project Justification

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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 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
4832 Precision Location and Identification (PLAID)	12.907	1.503	2.458	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

The AN/ALR-69A radar warning receiver (RWR) is an evolutionary development program consisting of a core digital receiver/processor with growth increments. The core ALR-69A program objectives are to improve identification of threat type, detect threat signals while outside of the threat envelop, and operate in a dense signal environment. Evolutionary growth spirals include single and multi-ship precision geolocation (PG) as well as Specific Emitter Identification (SEI). The underlying technologies and algorithms enabling PG and SEI are often collectively referred to as Precision Location and Identification (PLAID).

ALR-69A development is currently focused on a replacement RWR for AFSOC and AMC C-130 aircraft. The ALR-69A is also under consideration by AFSOC, AMC and ACC for integration and installation in other mission design series aircraft.

In FY09 Congress added \$1.5M AF RDT&E funds to the EW Development PE 064270F for "Rapid Replacement of Mission Critical Logistics Electronics Components" (RRMCLEC). Warner Robins Air Logistics Center (ALC) is performing RRMCLEC work and tracking those funds. RRMCLEC will rapidly develop prototypes of replacement electronic components and subassemblies to combat obsolescence and vanishing vendor issues in Electronic Warfare systems.

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Raytheon Core C-130 SDD	5.238		1.290
(U) Raytheon Option 11 AT3 ACTD	2.434		
(U) AT3 ACTD Program Office Support	1.008		
(U) Program Office Support		0.041	1.000
(U) Engineering Support	0.564		0.168
(U) AFOTEC Det 1 46 OGS Responsible Test Organization (RTO)	0.778		
(U) AT3 ACTD Test and Evaluation	0.690		
(U) Platform Integration	0.595		
(U) Rapid Replacement of Mission Critical Logistics Electronic Components	1.600	1.462	
(U) Total Cost	12.907	1.503	2.458

Exhibit R-2a, RDT&E Project Justification	DATE May 2009
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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)
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(U) C. Other Program Funding Summary (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to Complete</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>								
(U) DARPA Funding (AT3 ACTD)										1.300
(U) OSD Funding (AT3 ACTD)										14.000
(U) PE 0207442F Common ECM Equipment	10.308	10.502	0.000							TBD
(U) PE 0401115F ALR-69 (RWR) AMC C-130 Airlift Squadrons. PLAID procurement commenced in FY07	14.767	23.711	0.000							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
- Option 1: F-16 DT/OT
- Option 2: Risk Reduction, AT3 Bridge Requirements Definition
- Option 3: F-16 Geo-Location
- Option 4: SOF-130 Geo-Location
- Options 5-10: Production
- Option 11: Advanced Tactical Targeting Technology (AT3)

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Exhibit R-3, RDT&E Project Cost Analysis

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<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u> Raytheon CORE SDD + Fee	Full & Open Comp CPAF	Raytheon - Goleta CA		5.238	Feb-08			1.290	Oct-09	0.000	6.528	23.152
Raytheon Option 3/4 SDD + Fee	Full & Open Comp CPAF	Raytheon - Goleta CA								0.000	0.000	5.440
Raytheon Option 11 AT3 + Fee	Sole Source - Raytheon	Raytheon - Goleta CA		2.434	Feb-08					0.000	2.434	8.384
Subtotal Product Development			0.000	7.672		0.000		1.290		0.000	8.962	36.976
Remarks:												
(U) <u>Support</u> AT3 Program Office Support Program Office	PR	Various Contractors		1.008	Dec-07			1.000	Dec-09		1.008	1.255
Engineering	Various			0.564	Jan-08			0.168	Nov-09	0.000	0.732	2.500
Subtotal Support			0.000	1.572		0.041		1.168		0.000	2.781	5.365
Remarks:												
(U) <u>Test & Evaluation</u> AFOTEC Det 1 46 OGS C-130	PO			0.778						0.000	0.778	4.455
AT3 ACTD T&E (Western Test Range)	PO			0.690	May-08						0.690	0.739
Subtotal Test & Evaluation			0.000	1.468		0.000		0.000		0.000	1.468	5.194
Remarks:												
(U) Platform Integration - C-130, F-16 AT3 ACTD	Various	Various		0.595	Dec-07					0.000	0.595	7.027
Platform Integration Options 3/4	Various	Various		0.000							0.000	0.395
Subtotal			0.000	0.595		0.000		0.000		0.000	0.595	7.422
Remarks:												
(U) Rapid Replacement of Mission Critical Logistics Electronic Components	IDIQ Time and Mats	Scientific Research Corp - Atlanta GA		1.600	Sep-08	1.462					3.062	3.900
Subtotal			0.000	1.600		1.462		0.000		0.000	3.062	3.900
Remarks:												
(U) Total Cost			0.000	12.907		1.503		2.458		0.000	16.868	58.857

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Project 4832

Exhibit R-3 (PE 0604270F)

Exhibit R-4, RDT&E Schedule Profile

DATE

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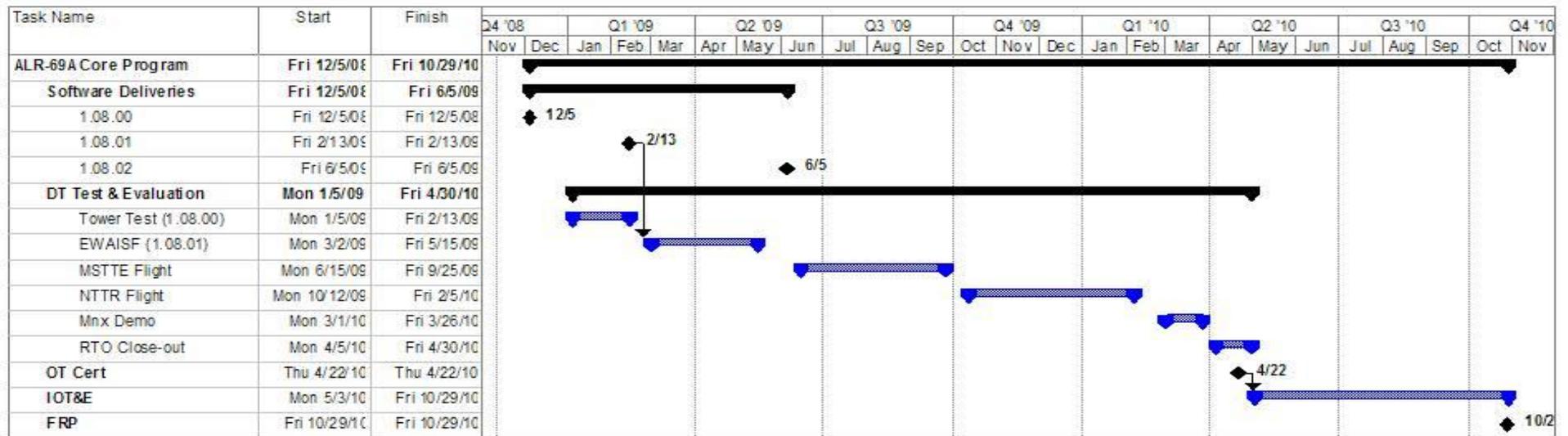
BUDGET ACTIVITY
05 System Development and Demonstration (SDD)

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 May 2009
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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)
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	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Schedule Profile			
(U) Developmental Testing and Evaluation	1-4Q	1-4Q	
(U) Operational Test and Evaluation			3-4Q
(U) LRIP II Decision		2Q	

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)						PE NUMBER AND TITLE 0604270F EW Development			PROJECT NUMBER AND TITLE 5305 MALD-J	
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
5305 MALD-J	0.000	0.000	94.817	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

MALD-J efforts were included in Project 658462, Miniature Air Launched Decoy, for FY 2008 and FY 2009.

(U) A. Mission Description and Budget Item Justification

This project develops the Miniature Air Launched Decoy Jammer (MALD-J). The jammer is a variant of the MALD decoy. The 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. MALD is a low cost, powered, expendable decoy designed to represent the kinematics and radar signature characteristics of various combat aircraft. The MALD will be employed from various aircraft platforms to stimulate, saturate, and deceive an enemy Integrated Air Defense System (IADS) thus increasing the survivability of coalition strike aircraft.

MALD-J will provide stand-in jamming capability for the Airborne Electronic Attack Systems of Systems. MALD-J will be launched against a preplanned target and will jam specific radars in a stand-in role to degrade or deny the IADS detection of friendly aircraft or munitions. MALD-J will be able to operate in both decoy and jammer modes.

Planned efforts for this program are risk reduction (to include prototyping) and System Development and Demonstration (SDD) of the jammer configuration and any other direct variant. This will include design, development, test, aircraft integration, and seamless verification.

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) MALD-J R/R and SDD CONTRACT			66.550
(U) MALD-J Contractor Support			1.607
(U) MALD-J Program Office Support (Government)			0.800
(U) MALD-J B-52 Aircraft Integration			1.200
(U) MALD-J Mission and Test Support			3.360
(U) MALD-J F-16 Aircraft Integration			0.300
(U) Future MALD-J Variant R/R			21.000
(U) Total Cost	0.000	0.000	94.817

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) Other APPN (PE 0207442F										
MALD/MALD-J	59.171	56.285	109.552						Continuing	TBD
procurement)										

Exhibit R-2a, RDT&E Project Justification

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05 System Development and Demonstration (SDD)

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0604270F EW Development

PROJECT NUMBER AND TITLE

5305 MALD-J

(U) **D. Acquisition Strategy**

A full and open competition for MALD was held in FY03 resulting in award of a cost plus award fee contract to Raytheon.

MALD-J risk reduction is based on a pair of decision points to evaluate progress towards meeting required effectiveness for the jammer payload. The Phase 1 effort is geared toward completing the subsystem design and characterizing effectiveness measures for that design. Phase 2 risk reduction will take the full system through PDR and establish an Integrated Baseline for the following MALD-J SDD program.

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Exhibit R-3, RDT&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 5305 MALD-J
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<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
<u>(U) Product Development</u> Risk Reduction and SDD	CPAF	Raytheon Missile Systems, Tucson, AZ						66.550	Jan-10		66.550	TBD
Improvement Risk Reduction	CPAF	Raytheon Missile Systems, Tucson, AZ						21.000	Jan-10		21.000	
B-52 Aircraft Integration	MIPR	B-52 SPO						1.200	Nov-09		1.200	
F-16 Aircraft Integration	MIPR	F-16 SPO						0.300	Jun-10		0.300	
Subtotal Product Development			0.000	0.000		0.000		89.050		0.000	89.050	TBD
Remarks:	Element includes detailed planning, support data reduction and reports from such testing.											
<u>(U) Support</u> Contractor Support to AAC/308 ARSW/692 ARSS	Various	Various						1.607	Dec-09		1.607	
Subtotal Support			0.000	0.000		0.000		1.607		0.000	1.607	0.000
Remarks:	Element includes detailed planning, support data reduction and reports from such testing.											
<u>(U) Test & Evaluation</u> Government Test Planning	Various	Various	0.000					3.360			3.360	
Subtotal Test & Evaluation			0.000	0.000		0.000		3.360		0.000	3.360	0.000
Remarks:	Element includes detailed planning, support data reduction and reports from such testing.											
<u>(U) Management</u> Program Office Support for AAC/308 ARSW/692 ARSS	Various	Various						0.800			0.800	
Subtotal Management			0.000	0.000		0.000		0.800		0.000	0.800	0.000
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 information technology expenses.											
<u>(U) Total Cost</u>			0.000	0.000		0.000		94.817		0.000	94.817	TBD

Exhibit R-4, RDT&E Schedule Profile

DATE

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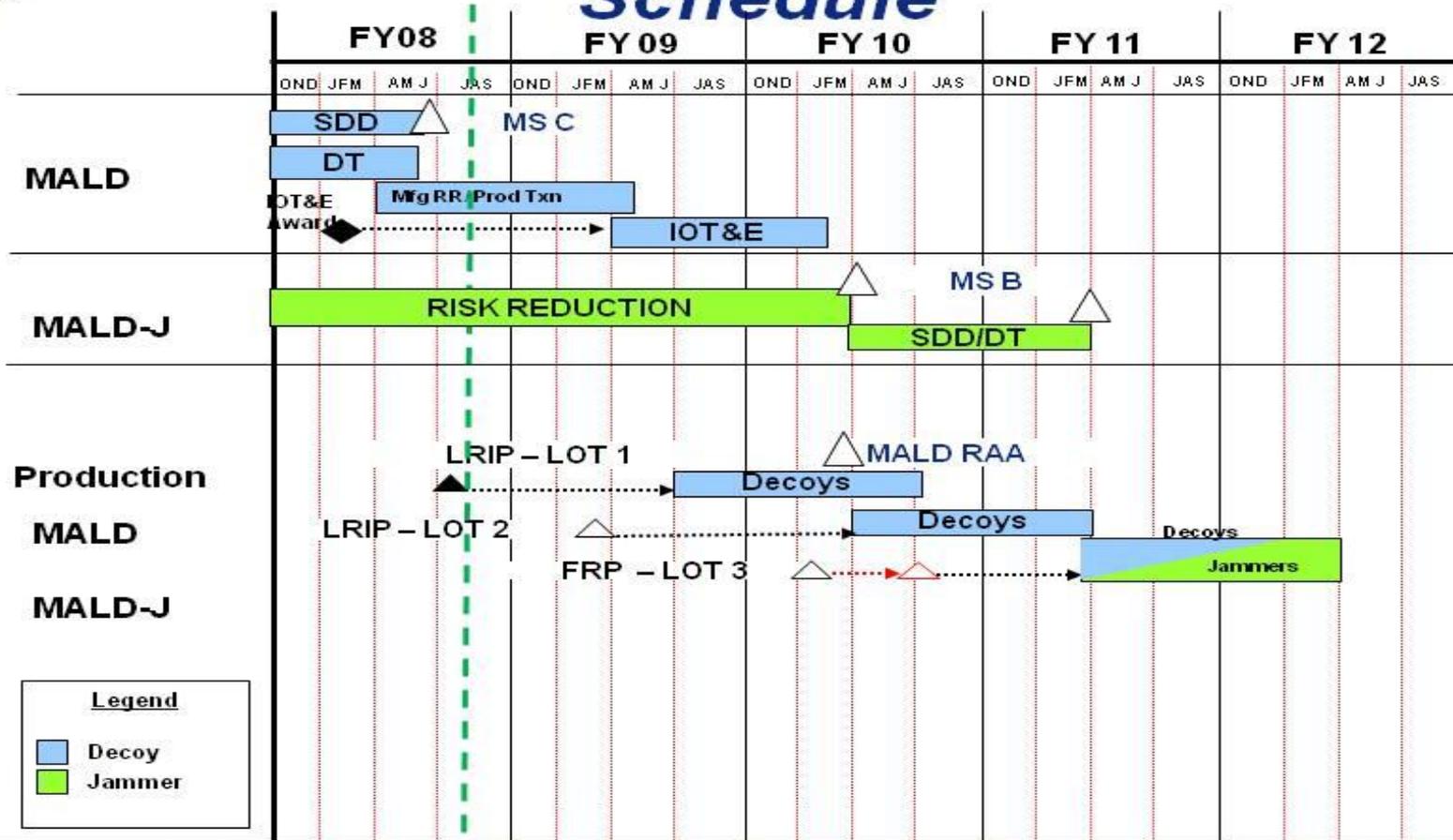
BUDGET ACTIVITY
05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE
0604270F EW Development

PROJECT NUMBER AND TITLE
5305 MALD-J

For Official Use Only

Integrated Schedule



Legend

- Decoy
- Jammer

Integrity - Service - Excellence

For Official Use Only

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Exhibit R-4a, RDT&E Schedule Detail

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BUDGET ACTIVITY

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0604270F EW Development

PROJECT NUMBER AND TITLE

5305 MALD-J

(U) Schedule Profile

FY 2008

FY 2009

FY 2010

(U) MALD-J SDD

2Q

(U) MALD-J IOT&E award

2Q

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)							PE NUMBER AND TITLE 0604270F EW Development		PROJECT NUMBER AND TITLE 8462 Miniature Air Launched Decoy	
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
8462 Miniature Air Launched Decoy	63.262	54.839	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

FY 2008 and FY 2009 include MALD-J efforts. In FY 2010, MALD-J is broken out in Project 655305, MALD-J.

(U) A. Mission Description and Budget Item Justification

This project develops the Miniature Air Launched Decoy (MALD) and MALD Jammer (MALD-J). The 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. MALD is a low cost, powered, expendable decoy designed to represent the kinematics and radar signature characteristics of various combat aircraft. The MALD will be employed from various aircraft platforms to stimulate, saturate, and deceive an enemy Integrated Air Defense System (IADS) thus increasing the survivability of coalition strike aircraft.

MALD-J will provide stand-in jamming capability for the Airborne Electronic Attack Systems of Systems. MALD-J will be launched against a preplanned target and will jam specific radars in a stand-in role to degrade or deny the IADS detection of friendly aircraft or munitions. MALD-J will be able to operate in both decoy and jammer modes.

Planned efforts for this program are risk reduction (to include prototyping) and System Development and Demonstration (SDD) of the decoy, jammer, and any future configurations. This will include design, development, test, aircraft integration, and seamless verification.

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) MALD and MALD-J RR and SDD Contract	53.283	30.835	
(U) MALD-J Contractor Support	2.538	0.839	
(U) MALD / MALD-J Program Office Support (Government)	0.981	0.435	
(U) MALD / MALD-J B-52 Aircraft Integration	0.300	0.840	
(U) MALD / MALD-J Mission and Test Support	5.910	7.590	
(U) MALD / MALD-J F-16 Aircraft Integration	0.250	0.300	
(U) Future MALD-J Variant R/R	0.000	14.000	
(U) Total Cost	63.262	54.839	0.000

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) AF RDT&E										
(U) Other APPN (PE 0207442F MALD/MALD-J	59.171	56.285	109.552						Continuing	TBD

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PROJECT NUMBER AND TITLE

8462 Miniature Air Launched Decoy

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

procurement)

(U) D. Acquisition Strategy

A full and open competition for MALD was held in FY03 resulting in award of a cost plus award fee contract to Raytheon.

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Exhibit R-3, RDT&E Project Cost Analysis

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BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT NUMBER AND TITLE				
05 System Development and Demonstration (SDD)				0604270F EW Development				8462 Miniature Air Launched Decoy				
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2008 Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) <u>Product Development</u> MALD SDD ACTD	CPFF	Northrop Grumman - Ryan Aeronautical Center									0.000	40.074
MALD / MALD-J RR and SDD	CPAF	Raytheon Missile Systems, Tucson AZ	174.074	53.283	Mar-08	30.835	Jan-09				258.192	TBD
MALD / MALD-J B-52 Aircraft Integration	MIPR	B-52 SPO	13.460	0.300	Nov-08	0.840	Nov-08				14.600	0.000
MALD / MALD-J F-16 Aircraft Integration	MIPR	F-16 SPO	1.154	0.250	Mar-08	0.300	Aug-09				1.704	0.000
Improvement Risk Reduction						14.000	Jan-09				14.000	
Subtotal Product Development			188.688	53.833		45.975		0.000		0.000	288.496	TBD
Remarks:												
(U) <u>Support</u> Contractor Support to AAC/308 ARSW/692 ARSS	Various	Various	8.799	2.537	Dec-07	0.839	Dec-08				12.175	
Subtotal Support			8.799	2.537		0.839		0.000		0.000	12.175	0.000
Remarks:												
(U) <u>Test & Evaluation</u> Government Test Planning	Various	Various	22.257	5.911		7.590					35.758	
Subtotal Test & Evaluation			22.257	5.911		7.590		0.000		0.000	35.758	0.000
Remarks:	Element includes detailed planning, support data reduction and reports from such testing.											
(U) <u>Management</u> AAC/308 ARSW/692 ARSS	Various	AAC, Eglin AFB FL	2.896	0.981		0.435					4.312	
Subtotal Management			2.896	0.981		0.435		0.000		0.000	4.312	0.000
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 information technology expenses.											
(U) Total Cost			222.640	63.262		54.839		0.000		0.000	340.741	TBD

Exhibit R-4, RDT&E Schedule Profile

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05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE
0604270F EW Development

PROJECT NUMBER AND TITLE
8462 Miniature Air Launched Decoy

MALD Master Schedule

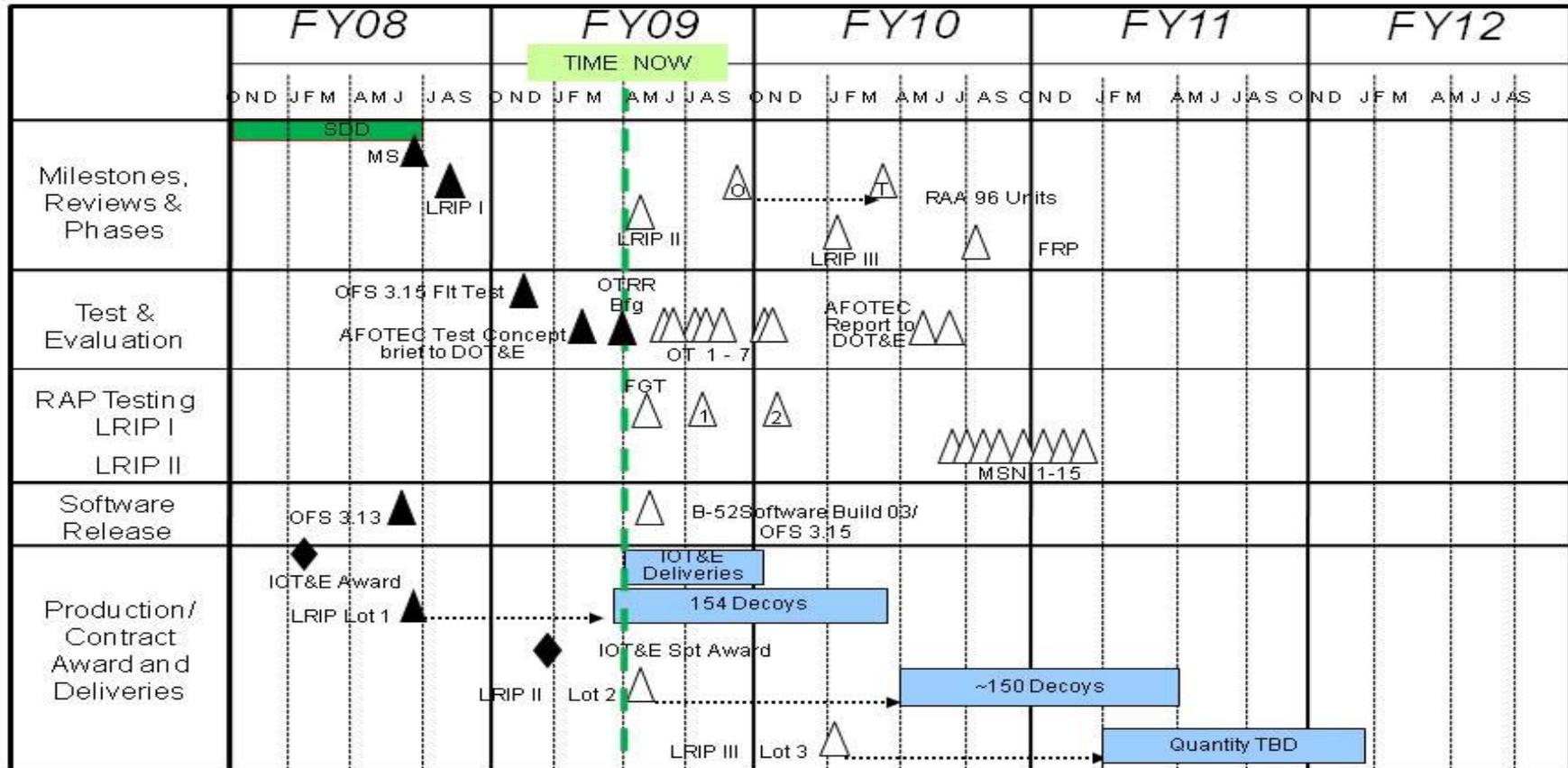


Exhibit R-4a, RDT&E Schedule Detail

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05 System Development and Demonstration (SDD)

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8462 Miniature Air Launched Decoy

(U) Schedule Profile

FY 2008

FY 2009

FY 2010

(U) MALD MS C

3Q

(U) MALD IOT&E

3Q

(U) MALD RAA

2Q

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