

**UNCLASSIFIED**

PE NUMBER: 0207040F  
 PE TITLE: Multi-Platform Electronics

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	DATE <b>May 2009</b>
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<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0207040F Multi-Platform Electronics</b>
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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	0.000	0.000	14.747	0.000	0.000	0.000	0.000	0.000	0.000	31.000
5310 EA Pod DRFM Upgrade	0.000	0.000	14.747	0.000	0.000	0.000	0.000	0.000	0.000	31.000

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

Overall, the PE funds on-going sustainment, maintenance, and upgrade of Multi-Platform Electronic Attack (EA) jamming pods and associated combat test equipment as well as sustainment of various other Electronic Warfare equipment. Specifically, this program provides procurement, research and development, and operations and maintenance for sustaining the ALQ-131 and ALQ-184 EA jamming pods. These pods are the sole self-protection jamming systems for US Air Force A-10 aircraft and most models of the F-16 aircraft.

This upgrade to the ALQ-131 is necessary to keep pace with adversary technological advances in surface-to-air and air-to-air missile systems. Digital Radio Frequency Memory (DRFM) allows an electronic system to digitally record and store characteristics of received signals in order to produce a jamming pulse that more precisely replicates the threat systems pulse. With the current/near term threat systems the A-10 and F-16 are likely to encounter, this level of fidelity is necessary to effectively protect these aircraft in this increasingly lethal environment.

This PE is in Budget Activity 7 - Operational System Development because it supports upgrade development of the ALQ-131, a fielded system.

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget		0.000	0.000
(U) Current PBR/President's Budget	0.000	0.000	14.747
(U) Total Adjustments	0.000	0.000	
(U) Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer			
(U) <u>Significant Program Changes:</u>			

**Exhibit R-2a, RDT&E Project Justification**

DATE  
**May 2009**

BUDGET ACTIVITY <b>07 Operational System Development</b>					PE NUMBER AND TITLE <b>0207040F Multi-Platform Electronics</b>			PROJECT NUMBER AND TITLE <b>5310 EA Pod DRFM Upgrade</b>		
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
5310 EA Pod DRFM Upgrade	0.000	0.000	14.747	0.000	0.000	0.000	0.000	0.000	0.000	31.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

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

Overall, the PE funds on-going sustainment, maintenance, and upgrade of Multi-Platform Electronic Attack (EA) jamming pods and associated combat test equipment as well as sustainment of various other Electronic Warfare equipment. Specifically, this program provides procurement, research and development, and operations and maintenance for sustaining the ALQ-131 and ALQ-184 EA jamming pods. These pods are the sole self-protection jamming systems for US Air Force A-10 aircraft and most models of the F-16 aircraft.

This upgrade to the ALQ-131 is necessary to keep pace with adversary technological advances in surface-to-air and air-to-air missile systems. Digital Radio Frequency Memory (DRFM) allows an electronic system to digitally record and store characteristics of received signals in order to produce a jamming pulse that more precisely replicates the threat systems pulse. With the current/near term threat systems the A-10 and F-16 are likely to encounter, this level of fidelity is necessary to effectively protect these aircraft in this increasingly lethal environment.

This PE is in Budget Activity 7 - Operational System Development because it supports upgrade development of the ALQ-131, a fielded system.

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) ALQ-131 DRFM SDD			14.747
(U)			
(U)			
(U) Total Cost	0.000	0.000	14.747

**(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) ALQ-131 DRFM Kits (BP19) APAF PE 27040F	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		

**(U) D. Acquisition Strategy**

All major contracts within this project will be awarded through full and open competition.

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**Exhibit R-3, RDT&E Project Cost Analysis**

DATE

**May 2009**

BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE			
<b>07 Operational System Development</b>				<b>0207040F Multi-Platform Electronics</b>					<b>5310 EA Pod DRFM Upgrade</b>			
(U) <u>Cost Categories</u> (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>2008</u> <u>Cost</u>	<u>FY 2008</u> <u>Cost</u>	<u>FY 2008</u> <u>Award</u> <u>Date</u>	<u>FY 2009</u> <u>Cost</u>	<u>FY 2009</u> <u>Award</u> <u>Date</u>	<u>FY 2010</u> <u>Cost</u>	<u>FY 2010</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>	<u>Target Value</u> <u>of Contract</u>
(U) <u>Product Development</u>												
Robins AFB			0.000	0.000		0.000		10.000		0.000	10.000	18.000
Subtotal Product Development			0.000	0.000		0.000		10.000		0.000	10.000	18.000
Remarks:												
(U) <u>Support</u>												
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Test &amp; Evaluation</u>												
Robins AFB			0.000	0.000		0.000		5.000		0.000	5.000	13.000
Subtotal Test & Evaluation			0.000	0.000		0.000		5.000		0.000	5.000	13.000
Remarks:												
(U) <u>Management</u>												
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			0.000	0.000		0.000		15.000		0.000	15.000	31.000

Exhibit R-4, RDT&E Schedule Profile

DATE  
May 2009

BUDGET ACTIVITY  
07 Operational System Development

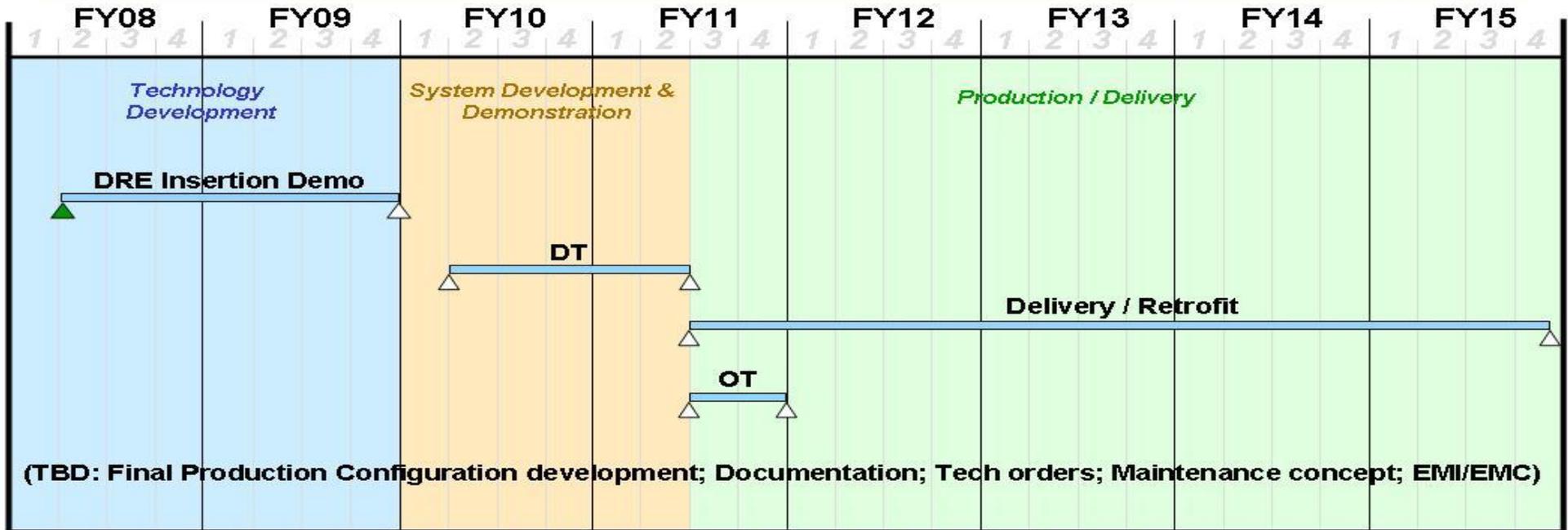
PE NUMBER AND TITLE  
0207040F Multi-Platform Electronics

PROJECT NUMBER AND TITLE  
5310 EA Pod DRFM Upgrade



U.S. AIR FORCE

# ALQ-131 DRFM Upgrade Program Schedule (DRAFT)



DRE: Digital Receiver Exciter

*Integrity - Service - Excellence*

Exhibit R-4a, RDT&E Schedule Detail

DATE

May 2009

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207040F Multi-Platform Electronics

PROJECT NUMBER AND TITLE

5310 EA Pod DRFM Upgrade

(U) Schedule Profile

FY 2008

FY 2009

FY 2010

(U) Develomental Testing

2-4Q

(U) Operational Testing

2-4Q

(U) Delivery and Retrofit of Pods Start

2-4Q

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