

Subject: Nuclear Surety		DoD Serial Number: FY 09-04 PA
Appropriation Title: Research, Development, Test, and Evaluation, Air Force, 09/10, Research, Development, Test, and Evaluation, Defense-Wide 09/10, Research, Development, Test, and Evaluation, Air Force, 08/09		Includes Transfer? No

Line Item	Component Serial Number: (Amounts in Thousands of Dollars)							
	Program Base Reflecting Congressional Action		Program Previously Approved by Sec Def		Reprogramming Action		Revised Program	
	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
a	b	c	d	e	f	g	h	i

This reprogramming action is submitted for prior approval because they exceed established thresholds and initiates **new starts**. These actions reprogram funds in support of higher priority items, based on unforeseen military requirements, than those for which funds were originally appropriated; and is determined to be necessary in the national interest. They meet all administrative and legal requirements, and none of the items has been denied previously by the Congress.

**Part I** of this reprogramming action realigns \$23.0 million within the Research, Development, Test, and Evaluation, Air Force, 09/10, appropriation and \$55.0 million within the Research, Development, Test, and Evaluation, Defense-Wide, 09/10, appropriation. I certify that this reprogramming of funds is necessary as an emergency requirement.

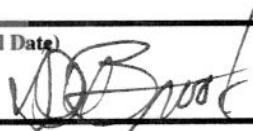
**Part II** of this reprogramming action realigns \$27.521 million within Research, Development, Test, and Evaluation, Air Force, 08/09.

### PART I

<b><u>FY 2009 REPROGRAMMING INCREASES:</u></b>	<b><u>+78,042</u></b>	<b><u>+58,042</u></b>
<b><u>Research, Development, Test, and Evaluation, Air Force, 09/10</u></b>	<b><u>+23,042</u></b>	
Budget Activity 7: Operational Systems Development		
PE 0708012F Logistics Support Activities		
-	-	
	<b>+23,042</b>	23,042

Explanation: Funds are required to provide a "Fusion Center" combining data from 13 legacy inventory systems to enable item in-transit tracking by serial number. Enhances existing system with software integration patches and hardware components. This is a **new start**.

Approved (Signature and Date)



DEC 5 2008

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a		b	c	d	e	f	g	h	i
<b>Research, Development, Test, and Evaluation, Defense-Wide, 09/10</b>						<b>+55,000</b>		<b>+35,000</b>	
<u>Budget Activity 2: Applied Research</u>									
PE 0602718BR Weapons of Mass Destruction Defeat Technologies									
			214,278		214,278		<b>+25,000</b>		239,278
			214,278		214,278		<b>+17,000</b>		231,278
<u>Explanation:</u> Funds are required to accelerate ongoing Defense Threat Reduction Agency (DTRA) research in active interrogation technologies, to include modeling and simulation, small-scale experimentation, and laboratory studies. Specific research elements include investigating the use and generation of various beams, which are used to “light up” nuclear materials so they may be detected easier with passive detectors ( <del>\$20.0 million</del> \$14.0 million).									
Funds are required to accelerate ongoing DTRA efforts to identify and develop the technologies necessary to provide an advanced nuclear weapon neutralization capability. The specific activities that would be funded include the performance of initial proof-of-principle experiments and modeling and simulation to evaluate potential neutralization technologies (\$3.0 million).									
<u>Budget Activity 3: Advanced Technology Development</u>									
PE 0603160BR Counterproliferation Initiatives – Proliferation Prevention and Defeat									
			219,645		219,645		<b>+30,000</b>		249,645
			219,645		219,645		<b>+18,000</b>		237,645
<u>Explanation:</u> Funds are required to accelerate ongoing DTRA efforts for advanced nuclear and radiological detection systems. There are four main focus areas. The first is system development and demonstration of a long-range standoff detection system based on high energy x-rays. The second is development of a family of advanced passive sensors for locating and identifying fissile material and radiological hazards for interdiction and elimination operations. The third is laboratory and field studies of advanced materials and electronics for radiation sensing. The last is development of a robust technical performance and operational test and evaluation infrastructure to support evaluation and field assessment of active and passive detection systems. Research priorities in these focus areas include large-area sensors; small, networked sensors for personnel, vehicles, and unmanned placement; alternative signature research; field-deployable high resolution radiation detection systems; man and vehicle portable directional and imaging systems; battle damage/site assessment sensors; rapid reconnaissance systems for contaminated areas; improved detectors for contamination control; and radiation dose/exposure monitoring of forces.									

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<b>a</b>		<b>b</b>	<b>c</b>	<b>d</b>	<b>e</b>	<b>f</b>	<b>g</b>	<b>h</b>	<b>i</b>
<b><u>FY 2009 REPROGRAMMING DECREASES:</u></b>						<b><u>-78,042</u></b>	<b><u>-58,042</u></b>		
<b><u>Research, Development, Test, and Evaluation, Air Force, 09/10</u></b>						<b><u>-23,042</u></b>			
<b><u>Budget Activity 5: Systems Development &amp; Demonstration (SDD)</u></b>									
<b>PE 0207701F Full Combat Mission Training</b>									
		135,152		135,152		-9,335		125,817	
<b><u>Budget Activity 7: Operational Systems Development</u></b>									
<b>PE 0401119F C-5 Airlift Squadrons (IF)</b>									
		125,063		125,063		-9,807		115,256	
<b>PE 0302015F E-4B National Airborne Operations Center</b>									
		4,069		4,069		-3,900		169	
<b><u>Explanation:</u></b> Funds are available from these programs to support the higher priority need of nuclear surety due to underexecution.									
<b><u>Research, Development, Test, and Evaluation, Defense-Wide, 09/10</u></b>						<b><u>-55,000</u></b>	<b><u>-35,000</u></b>		
<b><u>Budget Activity 4: Advanced Component Development</u></b>									
<b>PE 0603882C Ballistic Missile Defense Midcourse Defense Segment</b>									
		1,507,481		1,507,481		-20,000		1,487,481	
<b>PE 0603884C Ballistic Missile Defense Sensors</b>									
		767,593		767,593		-7,500		760,093	
<b>PE 0603886C Ballistic Missile Defense System Interceptor</b>									
		385,493		385,493		-15,000		370,493	
<b><u>HAC Denied</u></b>									
<b>PE 060389C Ballistic Missile Defense Aegis</b>									
		1,113,655		1,113,655		-7,500		1,106,155	
<b>PE 0603894C Multiple Kill Vehicle</b>									
		283,481		283,481		-5,000		278,481	
<b><u>HAC Denied</u></b>									
<b><u>Explanation:</u></b> Funds are available from these programs to support the higher priority need of nuclear surety.									

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**PART II**

**FY 2008 REPROGRAMMING INCREASE:** **+27,521**

**Research, Development, Test, and Evaluation, Air Force, 08/09** **+27,521**

Budget Activity 5: Systems Development & Demonstration

PE 0604851F Intercontinental Ballistic Missile

- - +2,000 2,000

Explanation: Funds are required to support system requirements analysis on the Reentry Field Support Equipment, the replacement for the Reentry System Test Set. Funds requirements definition and configuration data for each piece of equipment, and explores option for this acquisition. This is a **new start**.

PE 0604222F Nuclear Weapons Support

20,319 19,739 +8,800 28,539

Explanation: Funds are required to support feasibility and initial design study for a joint Air Force-Navy program for a Joint warhead fuze. This is a **new start** for the Air Force.

Budget Activity 7: Operational Systems Development

PE 0708012F Logistics Support Activities

- - +16,721 16,721

Explanation: Funds are required to provide a "Fusion Center" combining data from 13 legacy inventory systems to enable item in-transit tracking by serial number. Enhances existing system with software integration patches and hardware components. This is a **new start**.

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<b><u>FY 2008 REPROGRAMMING DECREASE:</u></b>						<b><u>-27,521</u></b>			
<b><u>Research, Development, Test, and Evaluation, Air Force, 08/09</u></b>						<b><u>-27,521</u></b>			
<u>Budget Activity 5: Systems Development &amp; Demonstration</u>									
PE 0604233F Specialized Undergraduate Flight Training									
		15,022		14,033		-2,100		11,933	
<u>Explanation:</u> Funds are available due to a delay in the contract award for the T-38 Improved Breaking System Project.									
<u>Budget Activity 7: Operational Systems Development</u>									
PE 0207417F Airborne Warning & Control System									
		152,721		146,341		-321		146,020	
PE 0302015F E-4B National Airborne Operations Center									
		19,529		18,576		-2,800		15,776	
PE 0401132F C-130J Program									
		74,223		62,106		-18,800		43,306	
PE 0401119F C-5 Airlift Squadrons (IF)									
		203,585		173,960		-3,500		170,460	
<u>Explanation:</u> Funds are available for higher priority needs due to underexecution.									