Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force

R-1 ITEM NOMENCLATURE

APPROPRIATION/BUDGET ACTIVITY
3600: Research, Development, Test & Evaluation, Air Force

PE 0605976F: Facility Restoration and Modernization - T&E

BA 6: RDT&E Management Support

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	52.190	46.327	44.547	-	44.547	45.723	44.236	40.071	38.191	Continuing	Continuing
6606MC: Facility Restoration and Modernization - T&E	52.190	46.327	44.547	-	44.547	45.723	44.236	40.071	38.191	Continuing	Continuing

#### A. Mission Description and Budget Item Justification

The program funding includes reductions for efficiencies that are not intended to impact program content. The efficiencies reductions total \$0.148M in FY12.

Restoration includes repair and replacement work to restore damaged facilities due to accident or failure attributable to inadequate sustainment, excessive age, or other causes. Modernization includes alteration of facilities to implement a new, higher standard (including regulatory changes), to accommodate new functions, or to replace building components that typically last more than 50 years (such as foundations and structural components). Other tasks associated with facilities operations (such as custodial services, grass cutting, and the provision of central utilities) are not included. These restoration/modernization funds support the following Air Force test facilities: 46th Test Group (TG) at Holloman AFB, NM, the 46th Test Wing (TW) at Eglin AFB, FL, the Arnold Engineering and Development Center (AEDC) at Arnold AFB, TN and the Air Force Flight Test Center (AFFTC) at Edwards AFB.

Budget Activity Justification: This program element is in Budget Activity 6, RDT&E Management Support, because this budget activity includes research, development, test and evaluation efforts and funds to sustain and/or modernize the installations or operations required for general research, development, test and evaluation.

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	54.809	46.327	47.073	-	47.073
Current President's Budget	52.190	46.327	44.547	-	44.547
Total Adjustments	-2.619	-	-2.526	-	-2.526
<ul> <li>Congressional General Reductions</li> </ul>		-			
<ul> <li>Congressional Directed Reductions</li> </ul>		-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>		-			
<ul> <li>Congressional Directed Transfers</li> </ul>		-			
Reprogrammings	-2.400	-			
SBIR/STTR Transfer	-	-			
Other Adjustments	-0.219	-	-2.526	-	-2.526

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 6606MC: Facility Restoration and Modernization - T&E

FY 2010	FY 2011

**DATE:** February 2011

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xhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Ford	e	DATE: February 2011							
APPROPRIATION/BUDGET ACTIVITY 1600: Research, Development, Test & Evaluation, Air Force 18A 6: RDT&E Management Support		R-1 ITEM NOMENCLATURE PE 0605976F: Facility Restoration and Modernization - T&E							
Congressional Add Details (\$ in Millions, and Includes G	General Reductions)		FY 2010	FY 2011					
Congressional Add: Inter-Base Facility Energy Independ	dence (ANG Project)		2.296						
		Congressional Add Subtotals for Project: 6606MC	2.296						
		Congressional Add Totals for all Projects	2.296						
Change Summary Explanation									
FY12: Reduced funding of \$2.378M for Life extension of A/	B Exhaust Plants.								

Page 2 of 7 Air Force R-1 Line Item #100

**DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 6: RDT&E Management Support					I <b>OMENCLA</b> 1 6F: <i>Facility F</i> ion - T&E		nd	PROJECT 6606MC: Facility Restoration and Modernization - T&E			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015 FY 2016 Comple			Total Cost
6606MC: Facility Restoration and Modernization - T&E	52.190	46.327	44.547	-	44.547	45.723	44.236	40.071	38.191	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

## A. Mission Description and Budget Item Justification

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force

The program funding includes reductions for efficiencies that are not intended to impact program content. The efficiencies reductions total \$0.148M in FY12.

Restoration includes repair and replacement work to restore damaged facilities due to accident or failure attributable to inadequate sustainment, excessive age, or other causes. Modernization includes alteration of facilities to implement a new, higher standard (including regulatory changes), to accommodate new functions, or to replace building components that typically last more than 50 years (such as foundations and structural components). Other tasks associated with facilities operations (such as custodial services, grass cutting, and the provision of central utilities) are not included. These restoration/modernization funds support the following Air Force test facilities: 46th Test Group (TG) at Holloman AFB, NM, the 46th Test Wing (TW) at Eglin AFB, FL, the Arnold Engineering and Development Center (AEDC) at Arnold AFB, TN and the Air Force Flight Test Center (AFFTC) at Edwards AFB.

Budget Activity Justification: This program element is in Budget Activity 6, RDT&E Management Support, because this budget activity includes research, development, test and evaluation efforts and funds to sustain and/or modernize the installations or operations required for general research, development, test and evaluation.

B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2012	FY 2012
	FY 2010	FY 2011	Base	oco	Total
Title: Facility restoration and modernization at the 46 TG	1.176	0.462	0.802	-	0.802
<b>Description:</b> Facility restoration and modernization at the 46 TG.					
FY 2010 Accomplishments: The 46 TG had various documented test facility restoration/modernization requirements. These requirements include but are not limited to the following categories: road repair, HVAC repairs and replacements, roof repairs and replacements, test track repairs, minor construction and infrastructure repairs to include underground power lines.					
FY 2011 Plans: The 46 TG has various documented test facility restoration/modernization requirements. These requirements include but are not limited to the following categories: road repair, HVAC repairs and replacements, roof repairs					

Air Force Page 3 of 7 R-1 Line Item #100

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force			D	ATE: Febru	ary 2011	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605976F: Facility Restoration and Modernization - T&E	66	ROJECT 06MC: Faci odernization	lity Restora - T&E	tion and	
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	
and replacements, test track repairs, minor construction and infrast lines.	ructure repairs to include underground power					
FY 2012 Base Plans: The 46 TG has various documented test facility restoration/modern include but are not limited to the following categories: road repair, and replacements, test track repairs, minor construction and infrast lines.	HVAC repairs and replacements, roof repairs					
FY 2012 OCO Plans: Not applicable.						
Title: Facility restoration and modernization at the 46 TW		2.140	2.437	2.316	-	2.316
<b>Description:</b> Facility restoration and modernization at the 46 TW.						
FY 2010 Accomplishments:  The 46 TW has documented over 200 test facility restoration/mode are not limited to, the following categories: range roads, fiber-optic doors, fire protection, erosion control, lightening protection, environ HVAC. The projects to accomplish also include minor constructio Range test sites and facilities; evaluation and implementation of stotest sites; fiber optic cable installation and interconnectivity to enhal instrumentation across the range and test facilities.	c communications grid, roofing, windows, mental clean-up, corrosion control, and n/reconstruction of Eglin Test and Training orm mitigation efforts to protect critical					
FY 2011 Plans: The 46TW has identified and documented over 320 test facility and these requirements are needed to sustain the integrity of the test fat to the test ranges. Some examples of these requirements include, test structures or categories; replace several munitions storage ma for Radar/Optical tracking testing at the 300' Copeland Tower on \$\frac{4}{2}\$ on McKinley Climatic Lab, pave range access roads to accomm roofs on several mission critical buildings, install lightning protection storage areas, install fire suppression systems in specific test facility corrosion control of critical structures. In addition, there are over 200.	acility structure or to enhance accessibility but are not limited to the following specific gazines, install emergency back-up power Santa Rosa Island, replace air make-up unit odate external customer testing, replace in to several buildings within the munitions ties, environmental clean-up and disposal and					

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force			D	ATE: Febru	ary 2011	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605976F: Facility Restoration and Modernization - T&E	6	ROJECT 606MC: Fac lodernization	•	tion and	
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	
projects, such as replacement of windows, doors, HVAC units, fibe preserve the Eglin Test and Training Range sites and infrastructure	•					
FY 2012 Base Plans: The 46 TW has documented over 200 test facility restoration/mode are not limited to, the following categories: range roads, fiber-optic doors, fire protection, erosion control, lightening protection, environ HVAC. The projects to accomplish also include minor constructio Range test sites and facilities; evaluation and implementation of steet sites; fiber optic cable installation and interconnectivity to enhal instrumentation across the range and test facilities.	c communications grid, roofing, windows, nmental clean-up, corrosion control, and on/reconstruction of Eglin Test and Training orm mitigation efforts to protect critical					
FY 2012 OCO Plans: Not applicable.						
Title: Facility restoration and modernization at AEDC		43.213	39.732	37.063	-	37.063
<b>Description:</b> Facility restoration and modernization at AEDC.						
FY 2010 Accomplishments: AEDC projects continue revitalizing of the Engine Test Facilities, Pracilities, and Space and Missile chambers located at Arnold AFB, Complex (NFAC) located at NASA Ames Research Center, CA, an Projects to restore and modernize the supporting plant facilities and design. Also includes large-scale projects that directly support eng program, hypersonic programs, the Missile Defense Agency, and s approximately \$5M for one time R&M projects to support engine terms.	TN, the National Full-Scale Aerodynamic and Tunnel 9 located at White Oak, Maryland. It to perform project specific planning and gine development, the Joint Strike Fighter spacecraft test and evaluation. FY10 included					
FY 2011 Plans: AEDC projects continue revitalizing of the Engine Test Facilities, Pracilities, and Space and Missile chambers located at Arnold AFB, Complex (NFAC) located at NASA Ames Research Center, CA, an Projects to restore and modernize the supporting plant facilities and	TN, the National Full-Scale Aerodynamic and Tunnel 9 located at White Oak, Maryland.					

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force			D	ATE: Febru	ary 2011		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605976F: Facility Restoration and Modernization - T&E	PROJECT 6606MC: Facility Restoration and Modernization - T&E					
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total		
design. Also includes large-scale projects that directly support eng program, hypersonic programs, the Missile Defense Agency, and s							
FY 2012 Base Plans: AEDC projects continue revitalizing of the Engine Test Facilities, P Facilities, and Space and Missile chambers located at Arnold AFB Complex (NFAC) located at NASA Ames Research Center, CA, ar Projects to restore and modernize the supporting plant facilities an design. Also includes large-scale projects that directly support eng program, hypersonic programs, the Missile Defense Agency, and second control of the contr	, TN, the National Full-Scale Aerodynamic and Tunnel 9 located at White Oak, Maryland. and to perform project specific planning and gine development, the Joint Strike Fighter						
FY 2012 OCO Plans: Not applicable.							
Title: Facility restoration and modernization at AFFTC		3.365	3.696	4.366	-	4.366	
<b>Description:</b> Facility restoration and modernization at AFFTC.							
FY 2010 Accomplishments:  AFFTC had test facility restoration/modernization projects for Elect facilities include, but are not limited to, roofing, heating & air condit rezoning, transformers and power systems, fire suppression systems.	tioning, windows, doors, and floors, work area						
FY 2011 Plans: AFFTC will continue test facility restoration/modernization projects facilities including, but not limited to, roofing, heating & air condition rezoning, transformers and power systems, fire suppression systems.	ning, windows, doors, and floors, work area						
FY 2012 Base Plans: AFFTC will continue test facility restoration/modernization projects facilities including, but not limited to, roofing, heating & air condition rezoning, transformers and power systems, fire suppression systems.	ning, windows, doors, and floors, work area						
FY 2012 OCO Plans: Not applicable.							
Acc	omplishments/Planned Programs Subtotals	49.894	46.327	44.547		44.547	

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Air Force Page 6 of 7 R-1 Line Item #100

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force	DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0605976F: Facility Restoration and	6606MC: Fa	acility Restoration and
BA 6: RDT&E Management Support	Modernization - T&E	Modernizati	ion - T&E

	FY 2010	FY 2011
Congressional Add: Inter-Base Facility Energy Independence (ANG Project)	2.296	-
FY 2010 Accomplishments: Inter-Base Facility Energy Independence (ANG Project).		
FY 2011 Plans:		
Congressional Adds Subtotals	2.296	-

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

				FY 2012	FY 2012	FY 2012					<b>Cost To</b>	
Line Ite	<u>m</u>	FY 2010	FY 2011	<u>Base</u>	OCO	<u>Total</u>	FY 2013	FY 2014	FY 2015	FY 2016	<b>Complete</b>	<b>Total Cost</b>
• RDT&E AF: <i>PE 06</i>	04256F, Threat	25.375	21.245	22.420	0.000	22.420	23.234	22.379	20.592	19.923	Continuing	Continuing
Simulator Developm	ent.											
• RDT&E AF (1): <i>PE</i>	0604759F,	63.892	61.587	62.206	0.000	62.206	60.038	49.606	46.223	53.760	Continuing	Continuing
Major T&E Investme	ent.											
• RDT&E AF (2): <i>PE</i>	0605807F,	755.992	759.868	654.475	0.000	654.475	578.997	595.567	615.594	613.825	Continuing	Continuing
Test and Evaluation	Support.											
• RDT&E AF (3): <i>PE</i>	0605978F,	29.559	27.579	27.953	0.000	27.953	28.049	27.220	26.416	25.600	Continuing	Continuing
Facility Sustainment	- T&E support.											

# D. Acquisition Strategy

Not applicable

## E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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