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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Air Force										Date: February 2018		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 6: RDT&E Management Support					R-1 Program Element (Number/Name) PE 0605978F I Facilities Sustainment - Test and Evaluation Support							
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	-	28.091	28.720	28.888	0.000	28.888	29.424	29.935	30.555	31.112	Continuing	Continuing
6606MR: Facility Sustainment-T&E Support	-	28.091	28.720	28.888	0.000	28.888	29.424	29.935	30.555	31.112	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Provides resources for sustainment activities required for an inventory of Air Force Material Command (AFMC) Test and Evaluation (T&E) facilities. Facility sustainment includes regularly scheduled adjustments and inspections, preventative maintenance tasks, and emergency response and service calls for minor repairs. It also includes major repairs or replacement of facility components that are expected to occur periodically. In addition to standard facility sustainment, such as roof replacement, refinishing of wall and floor surfaces, and repairing and replacing of heating and cooling systems, this work includes inspections and repairs of heavy plant machinery in large industrial facilities. This work includes, but is not limited to, inspection and repair of high-power electrical switching gear, hydraulic, lubrication, forced-air and fluid cooling systems, high pressure vessel health monitoring, facility control and remote monitoring systems, liquid oxygen systems, steam systems, test instrumentation, and fire detection and suppression systems. Other tasks associated with facilities operations (such as custodial services, grass cutting, and landscaping, waste disposal, and the provision of central utilities) are not included. These sustainment funds support the following Air Force organizations and their associated test and evaluation facilities, including: remote locations, the 96th Test Wing (TW) at Eglin AFB, FL, Arnold Engineering and Development Complex (AEDC) at Arnold AFB, TN, AEDC's 704th Test Group (TG) at Holloman AFB, NM, AEDC's 704 TG Landing Gear Test Facility (LGTF) at Wright-Patterson AFB, OH, AEDC's Hypersonic Wind Tunnel 9 at White Oak, MD, AEDC's National Full-Scale Aerodynamics Complex (NFAC) at Moffett Field, CA, AEDC's McKinley Climatic Laboratory (MCL) at Eglin AFB, FL and the 412 Test Wing (TW) at Edwards AFB, CA.

This program 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.

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B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	
Previous President's Budget	28.091	28.720	29.105	0.000	29.105	
Current President's Budget	28.091	28.720	28.888	0.000	28.888	
Total Adjustments	0.000	0.000	-0.217	0.000	-0.217	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	0.000	0.000				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	0.000	0.000				
• SBIR/STTR Transfer	0.000	0.000				
• Other Adjustments	0.000	0.000	-0.217	0.000	-0.217	
Change Summary Explanation						
FY19: \$.217 million decrease due to inflation adjustment.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2017	FY 2018	FY 2019
Title: Facility sustainment at the 96 TW.				1.311	0.791	1.051
Description: Facility sustainment at the 96 TW.						
FY 2018 Plans:						
Continue to work through several hundred Direct Scheduled Work Orders (DSWs) within the test infrastructure.						
FY 2019 Plans:						
Continue to work through several hundred Direct Scheduled Work Orders (DSWs) within the test infrastructure.						
FY 2018 to FY 2019 Increase/Decrease Statement:						
\$0.260 million increase from FY 2018 to FY 2019 due to increase in maintenance cost projections due to aging facilities.						
Title: Facility sustainment at the AEDC.				24.330	25.513	25.170
Description: Facility sustainment at the AEDC.						
FY 2018 Plans:						
Continue to perform calendar based scheduled preventative maintenance on Engine Test Facility Plant and associated engine test cells, Propulsion Wind Tunnel Plant and associated wind tunnels, Von Karman Facility (VKF) Plant Core and associated test cells, arc heaters, rocket test facility, space chambers, and hypersonic engine test facilities, along with associated infrastructure						

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C. Accomplishments/Planned Programs (\$ in Millions)									FY 2017	FY 2018	FY 2019	
that supports all test operations. Sustainment projects include painting buildings, carpet replacement, heating, ventilation, air conditioning (HVAC) repairs and roof repairs throughout the 704 Test Group (TG).												
FY 2019 Plans: Continue to perform calendar based scheduled preventative maintenance on Engine Test Facility Plant and associated engine test cells, Propulsion Wind Tunnel Plant and associated wind tunnels, Von Karman Facility (VKF) Plant Core and associated test cells, arc heaters, rocket test facility, space chambers, and hypersonic engine test facilities, along with associated infrastructure that supports all test operations. Sustainment project includes painting buildings, carpet replacement, heating, ventilation, air conditioning (HVAC) repairs and roof repairs throughout the 704 TG.												
FY 2018 to FY 2019 Increase/Decrease Statement: \$0.343 million decrease from FY 2018 to FY 2019 due to previous PE 0605978F expenditures for preventative maintenance to aging facilities.												
Title: Facility sustainment at the 412 TW.									2.450	2.416	2.667	
Description: Facility sustainment at the 412 TW.												
FY 2018 Plans: Continue sustainment of test unique infrastructure in 412 TW Electronic Warfare, Range, and other T&E facilities located at Edwards AFB, CA.												
FY 2019 Plans: Continue sustainment of test unique infrastructure in 412 TW Electronic Warfare, Range, and other T&E facilities located at Edwards AFB, CA.												
FY 2018 to FY 2019 Increase/Decrease Statement: \$0.251 million increase from FY 2018 to FY 2019 due to increase in maintenance cost projections due to aging facilities.												
Accomplishments/Planned Programs Subtotals									28.091	28.720	28.888	
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost	
• RDTE 06 PE 0604256F: Threat Simulator Development	21.377	35.405	34.256	-	34.256	46.393	42.925	29.444	29.977	Continuing	Continuing	
• RDTE 06 PE 0604759F: Major T&E Investment	64.538	82.874	91.844	-	91.844	181.663	164.005	142.090	82.003	Continuing	Continuing	

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<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 6: RDT&amp;E Management Support</i>					<b>R-1 Program Element (Number/Name)</b> PE 0605978F <i>I Facilities Sustainment - Test and Evaluation Support</i>						
<b>D. Other Program Funding Summary (\$ in Millions)</b>											
			<u><b>FY 2019</b></u>	<u><b>FY 2019</b></u>	<u><b>FY 2019</b></u>					<u><b>Cost To</b></u>	
<u><b>Line Item</b></u>	<u><b>FY 2017</b></u>	<u><b>FY 2018</b></u>	<u><b>Base</b></u>	<u><b>OCO</b></u>	<u><b>Total</b></u>	<u><b>FY 2020</b></u>	<u><b>FY 2021</b></u>	<u><b>FY 2022</b></u>	<u><b>FY 2023</b></u>	<u><b>Complete</b></u>	<u><b>Total Cost</b></u>
• RDTE 06 PE 0605807F: <i>Test &amp; Evaluation Support</i>	676.417	678.289	692.784	-	692.784	719.900	726.015	760.319	737.765	Continuing	Continuing
• RDTE 06 PE 0605976F: <i>Facility Restoration and Modernization-T&amp;E</i>	134.111	135.507	162.216	-	162.216	88.445	69.293	70.730	72.019	Continuing	Continuing
<b>Remarks</b>											
<b>E. Acquisition Strategy</b>											
N/A											
<b>F. Performance Metrics</b>											
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.											