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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force										Date: February 2015		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 6: RDT&E Management Support					PE 0605978F I Facilities Sustainment - Test and Evaluation Support							
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	-	29.743	32.965	27.895	-	27.895	28.372	28.914	29.374	29.900	Continuing	Continuing
6606MR: Facility Sustainment-T&E Support	-	29.743	32.965	27.895	-	27.895	28.372	28.914	29.374	29.900	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, 96th Test Group (TG) at Holloman AFB, NM, the 96th Test Wing (TW) at Eglin AFB, FL, the Arnold Engineering and Development Complex (AEDC) at Arnold AFB, TN, the 412 Test Wing (TW) at Edwards AFB, CA, 96 TG Landing Gear Test Facility (LGTF) at Wright-Patterson AFB, OH, Hypersonic Wind Tunnel 9 at White Oak, MD, and the National Full-Scale Aerodynamics Complex (NFAC) at Moffett Field, 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.

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	27.643	32.965	28.080	-	28.080
Current President's Budget	29.743	32.965	27.895	-	27.895
Total Adjustments	2.100	-	-0.185	-	-0.185
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	2.100	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	-0.185	-	-0.185

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Change Summary Explanation FY14: \$2.1M increase due to reprogramming; used to execute deferred maintenance.				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
Title: Facility sustainment at the 96 TG. Description: Facility sustainment at the 96 TG. FY 2014 Accomplishments: Sustainment projects included painting buildings, carpet replacement, heating, ventilation, and air conditioning (HVAC) repairs and roof repairs throughout the 96 TG. FY 2015 Plans: Sustainment projects include painting buildings, carpet replacement, heating, ventilation, and air conditioning (HVAC) repairs and roof repairs throughout the 96 TG. FY 2016 Plans: Sustainment projects include painting buildings, carpet replacement, heating, ventilation, and air conditioning (HVAC) repairs and roof repairs throughout the 96 TG.		0.355	0.348	0.293
Title: Facility sustainment at the 96 TW. Description: Facility sustainment at the 96 TW. FY 2014 Accomplishments: Completed several Direct Scheduled Work Orders (DSWs) within the test infrastructure. FY 2015 Plans: Continue to work through several hundred Direct Scheduled Work Orders (DSWs) within the test infrastructure. FY 2016 Plans: Continue to work through several hundred Direct Scheduled Work Orders (DSWs) within the test infrastructure.		0.422	0.409	0.344
Title: Facility sustainment at the AEDC. Description: Facility sustainment at the AEDC. FY 2014 Accomplishments: Performed 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,		27.617	30.851	25.885

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
arc heaters, rocket test facility, space chambers, and hypersonic engine test facilities, along with associated infrastructure that supports all test operations. FY 2015 Plans: 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. Plan and execute project to disassemble, inspect, evaluate, refurbish and/or repair and test one helium rotary screw compressor unit for the cryogenic cooling system for space chambers. FY 2016 Plans: 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.				
Title: Facility sustainment at the 412 TW. Description: Facility sustainment at the 412 TW. FY 2014 Accomplishments: Continued repainting hanger floors with two-part epoxy coatings and restriping floors. Continued boiler and cooling tower chemical treatments. Continued septic tank pumping. Conducted scales maintenance in Building 1030. Completed hanger door maintenance for Building 1030. Continued providing civil engineering in-house and emergency repair work. FY 2015 Plans: Continue sustainment of test unique infrastructure in 412 TW Electronic Warfare, Range, and other T&E facilities located at Edwards AFB, CA. FY 2016 Plans: Continue sustainment of test unique infrastructure in 412 TW Electronic Warfare, Range, and other T&E facilities located at Edwards AFB, CA.		1.349	1.357	1.373
Accomplishments/Planned Programs Subtotals		29.743	32.965	27.895

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D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• RDTE: BA06: PE 0604256F: <i>Threat Simulator Development</i>	14.786	24.418	23.844	-	23.844	21.846	22.251	22.641	23.045	Continuing	Continuing
• RDTE: BA06: PE 0604759F: <i>Major T&E Investment</i>	31.423	47.232	68.302	-	68.302	66.845	66.142	66.436	67.679	Continuing	Continuing
• RDTE: BA06: PE 0605807F: <i>Test & Evaluation Support</i>	724.958	689.509	673.908	-	673.908	666.993	677.220	684.977	697.626	Continuing	Continuing
• RDTE: BA06: PE 0605976F: <i>Facility Restoration and Modernization-T&E</i>	44.160	46.955	40.518	-	40.518	42.978	43.795	44.349	45.142	Continuing	Continuing
Remarks											
E. Acquisition Strategy N/A											
F. 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.											