

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2002		
BUDGET ACTIVITY 03 - Advanced Technology Development				PE NUMBER AND TITLE 0603106F Logistics Systems Technology				PROJECT 2745		
COST (\$ in Thousands)		FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
2745	Logistics Performance and Support Technology (S&T)	13,157	0	0	0	0	0	0	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0

Note: In FY 2002, efforts transferred to PE 0603231F, Project 4923, to align resources with the Air Force Research Laboratory organization.

(U) **A. Mission Description**
 This program develops and demonstrates cost-effective technologies to improve the design, performance, security, and support of current and future weapon systems, including their support equipment. This effort also develops technology to incorporate human operator, maintenance, and support considerations into the weapon systems design process and to make engineering, product support, and maintenance data electronically available throughout weapon systems' life cycles. The program provides more realistic logistics planning and combat capability assessment tools, and provides technologies to reduce deployment airlift and footprint requirements, acoustic sensor and processing technologies to locate and identify threats, and two-way communication technologies for command and control. This program improves logistics information command and control and asset visibility, provides critical logistics risk reduction technology, and helps control total weapon systems' life cycle costs.

(U) **FY 2001 (\$ in Thousands)**

(U) \$1,863 Developed and demonstrated technologies to enhance and streamline aircraft maintenance processes to improve the Air Force's ability to meet Air Expeditionary Force requirements by providing faster and more accurate methods of diagnosing and predicting component failures. Continued development of diagnostics capability to provide technicians with more effective tools for isolating faults on the software intensive, reconfigurable systems found on modern aircraft and advanced aircraft systems currently in development.

(U) \$4,683 Developed and demonstrated intelligent software agents and realistic human behavior models. Developed intelligent software agents that automatically translate and execute air tasking order inputs for synthetic exercises and war games. Developed software agents that enhance the users' ability to monitor and respond to asymmetric events during the planning and scheduling of airlift missions.

(U) \$4,549 Developed and demonstrated logistics technologies for improved deployment operations and improved system supportability. Continued to develop technology to provide wing commanders and senior logisticians with advanced information and management capabilities, including rapid access to real-time resources status information, proactive problem identification, decision support, and process tracking. Continued to develop an integrated, easily deployable, waste management system to process all types of waste materials produced during deployed

Project 2745 Page 1 of 3 Pages Exhibit R-2 (PE 0603106F)

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<p>(U) <u>A. Mission Description Continued</u></p> <p>(U) <u>FY 2001 (\$ in Thousands) Continued</u></p> <p>(U) \$2,062 operations. Developed and demonstrated logistics technologies for improved system supportability, deployability, and mobility. These technologies greatly improve the flexibility and deployability of the flightline maintenance equipment, improve the airlift/mobility operations of the Air Expeditionary Force, and ensure that weapon systems are more reliable and maintainable. Completed and transitioned specifications for the next generation of powered support equipment for more agile/lean flightline maintenance. Completed and transitioned specifications and technology for next generation ground refueling systems to support Air Force Special Operations Command.</p> <p>(U) \$13,157 Total</p> <p>(U) <u>FY 2002 (\$ in Thousands)</u></p> <p>(U) \$0 Effort moved to PE 0603231F, Project 4923.</p> <p>(U) \$0 Total</p> <p>(U) <u>FY 2003 (\$ in Thousands)</u></p> <p>(U) \$0 No Activity</p> <p>(U) \$0 Total</p> <p>(U) <u>B. Budget Activity Justification</u> This program is in Budget Activity 3, Advanced Technology Development, since it develops and demonstrates cost-effective technologies to improve the design, performance, and support of current and future weapon systems.</p> <p>(U) <u>C. Program Change Summary (\$ in Thousands)</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 10%; text-align: center;"><u>FY 2001</u></th> <th style="width: 10%; text-align: center;"><u>FY 2002</u></th> <th style="width: 10%; text-align: center;"><u>FY 2003</u></th> <th style="width: 10%; text-align: center;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget</td> <td style="text-align: center;">13,768</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">TBD</td> </tr> <tr> <td>(U) Appropriated Value</td> <td style="text-align: center;">13,895</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> a. Congressional/General Reductions</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> b. Small Business Innovative Research</td> <td style="text-align: center;">-326</td> <td></td> <td></td> <td></td> </tr> <tr> <td> c. Omnibus or Other Above Threshold Reprogram</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> d. Below Threshold Reprogram</td> <td style="text-align: center;">-285</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>	(U) Previous President's Budget	13,768	0	0	TBD	(U) Appropriated Value	13,895	0			(U) Adjustments to Appropriated Value					a. Congressional/General Reductions					b. Small Business Innovative Research	-326				c. Omnibus or Other Above Threshold Reprogram					d. Below Threshold Reprogram	-285			
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Project 2745	Page 2 of 3 Pages	Exhibit R-2 (PE 0603106F)																																								

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BUDGET ACTIVITY				February 2002
03 - Advanced Technology Development		PE NUMBER AND TITLE		PROJECT
		0603106F Logistics Systems Technology		2745
(U)	<u>C. Program Change Summary (\$ in Thousands) Continued</u>			
		<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
	e. Rescissions	-127		<u>Total Cost</u>
(U)	Adjustments to Budget Years Since FY 2002 PBR			
(U)	Current Budget Submit/FY 2003 PBR	13,157	0	0
				TBD
(U)	<u>Significant Program Changes:</u>			
	In FY 2002, efforts transfer to PE 0603231F, Project 4923, to align resources with the Air Force Research Laboratory organization.			
(U)	<u>D. Other Program Funding Summary (\$ in Thousands)</u>			
(U)	Related Activities:			
(U)	PE 0602201F, Aerospace Flight Dynamics.			
(U)	PE 0602202F, Human Effectiveness Applied Research.			
(U)	PE 0603721N, Environmental Protection.			
(U)	PE 0604708F, Civil, Fire, Environmental, Shelter.			
(U)	PE 0604740F, Integrated Command & Control Applications.			
(U)	PE 0605801A, Programwide Activities.			
(U)	PE 0708011F, Industrial Preparedness.			
(U)	This project has been coordinated through the Reliance process to harmonize efforts and eliminate duplication.			
(U)	<u>E. Acquisition Strategy</u>			
	Not Applicable.			
(U)	<u>F. Schedule Profile</u>			
(U)	Not Applicable.			