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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2002		
BUDGET ACTIVITY 03 - Advanced Technology Development				PE NUMBER AND TITLE 0603245F Flight Vehicle Technology Integration				PROJECT 2568		
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
2568	Flight Vehicle Technology Integration	17,225	0	0	0	0	0	0	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0
<p>Note: In FY 2002, efforts transferred to PE 0603211F, Project 4920.</p> <p>(U) <u>A. Mission Description</u> This program integrates and demonstrates advanced flight vehicle technologies that will improve the performance and supportability of existing and future manned and unmanned aerospace vehicles. System level integration brings together the aerospace vehicle technologies along with avionics, propulsion, and weapon systems to flight demonstrate them in a near-realistic operational environment. Integration and flight test demonstrations reduce the risk and time required to transition technologies into operational aircraft. This program provides proven aerospace vehicle technologies for all-weather, day or night operations, and technologies for improved affordability.</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u></p> <p>(U) \$10,578 Developed and demonstrated technologies to support the joint Air Force/Defense Advanced Research Projects Agency unmanned combat air vehicle goals. Demonstrated lightweight/low-cost composite structures, multifunction apertures, compact low-observable inlets and exhaust, and advanced materials technologies for affordable low-observables. Demonstrated advanced weapons suspension and release technologies, and the integration of human system interface technologies for advanced manned and unmanned operations.</p> <p>(U) \$925 Developed and demonstrated advanced flight control techniques for affordable and reliable autonomous control. Integrated, developed, and tested advanced vehicle management technology with advanced system prognostics and autonomous control software to achieve reliability and affordability goals. Completed integrated flight control technology specification for unmanned air vehicles.</p> <p>(U) \$1,907 Initiated Congressionally directed effort to address advanced technology development of explosion issues associated with integration of explosion resistant fuel tank lining materials.</p> <p>(U) \$3,815 Initiated Congressionally directed efforts to conduct a Trans-Atmospheric Aerospace Plane (TAAP) study, to provide a comprehensive evaluation of future strike military utility in order to identify technologies that must be pursued by the Air Force.</p> <p>(U) \$17,225 Total</p>										
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<p>(U) <u>A. Mission Description Continued</u></p> <p>(U) <u>FY 2002 (\$ in Thousands)</u></p> <p>(U) \$0 Efforts transferred to PE 0603211F, Aerospace Structures, Project 4920, Flight Vehicle Tech Integration.</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></p> <p>This program is in Budget Activity 3, Advanced Technology Development, since it develops and demonstrates technologies for existing system upgrades and/or new system developments that have military utility and address warfighter needs.</p> <p>(U) <u>C. Program Change Summary (\$ in Thousands)</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></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: right;">17,960</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>(U) Appropriated Value</td> <td style="text-align: right;">18,126</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: right;">-426</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: right;">-309</td> <td></td> <td></td> <td></td> </tr> <tr> <td> e. Rescissions</td> <td style="text-align: right;">-166</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Budget Years Since FY 2002 PBR</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Current Budget Submit/FY 2003 PBR</td> <td style="text-align: right;">17,225</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">TBD</td> </tr> </tbody> </table> <p>(U) <u>Significant Program Changes:</u> In FY 2002, efforts transferred to PE 0603211F, Project 4920.</p>				<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>	(U) Previous President's Budget	17,960	0	0		(U) Appropriated Value	18,126	0			(U) Adjustments to Appropriated Value					a. Congressional/General Reductions					b. Small Business Innovative Research	-426				c. Omnibus or Other Above Threshold Reprogram					d. Below Threshold Reprogram	-309				e. Rescissions	-166				(U) Adjustments to Budget Years Since FY 2002 PBR					(U) Current Budget Submit/FY 2003 PBR	17,225	0	0	TBD
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BUDGET ACTIVITY		February 2002
03 - Advanced Technology Development	PE NUMBER AND TITLE	PROJECT
	0603245F Flight Vehicle Technology Integration	2568
<p>(U) <u>D. Other Program Funding Summary (\$ in Thousands)</u></p> <p>(U) Related Activities:</p> <p>(U) PE 0602201F, Aerospace Vehicle Technology</p> <p>(U) PE 0603106F, Logistics Systems Technology.</p> <p>(U) PE 0603211F, Aerospace Technology Dev/Demo</p> <p>(U) This project has been coordinated through the Reliance process to harmonize efforts and eliminate duplication.</p> <p>(U) <u>E. Acquisition Strategy</u></p> <p>Not Applicable.</p> <p>(U) <u>F. Schedule Profile</u></p> <p>(U) Not Applicable.</p>		
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