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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2000		
BUDGET ACTIVITY <b>05 - Engineering and Manufacturing Development</b>				PE NUMBER AND TITLE <b>0604227F Distributed Mission Training (DMT)</b>				PROJECT <b>654673</b>		
COST (\$ in Thousands)		FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
654673	Distributed Mission Training (DMT)	2,180	3,781	3,782	3,762	3,737	3,813	3,888	Continuing	TBD
Quantity of RDT&E Articles		0	0	0	0	0	0	0	0	0
<p>(U) <b><u>A. Mission Description</u></b>            Distributed Mission Training (DMT) is revolutionizing aerospace team training by implementing a 'train the way we fight' philosophy -- as a team. The DMT program provides a shared synthetic environment of geographically separated aircraft simulators and will link real time to C3I assets and other battlefield systems in a synthetic battlefield environment. This will allow the Air Force to conduct mission rehearsal and combat mission training, which today can only be done to a limited extent because of constraints on flying hours, platform and airspace availability, as well as environmental constraints. DMT is funded principally with Operations and Maintenance funds. Engineering development efforts focus on development, demonstration, and transitioning of enhancements of critical functions associated with the DMT network and linked simulators. Areas of emphasis include development and demonstration of network architectures, common databases and database interfaces, improved simulator fidelity, and integration with constructive simulations for C3I. The ultimate objective of the program is for DMT to be able to conduct full joint and combined forces mission rehearsals.</p> <p>(U) <b><u>FY 1999 (\$ in Thousands)</u></b>            (U) \$1,758 Develop and implement the DMT network including standards development, multilevel security and latency management approaches.            (U) \$213 Develop and demonstrate a common environmental, terrain, and threat databases.            (U) \$209 Develop and demonstrate visual database interfaces to improve image-generation fidelity.            (U) \$2,180 Total</p> <p>(U) <b><u>FY 2000 (\$ in Thousands)</u></b>            (U) \$1,590 Continued development, demonstration and insertion of common network standards, multilevel security and latency management approaches.            (U) \$1,784 Continued development, demonstration and insertion of common environmental, terrain, and threat databases.            (U) \$407 Continued development, demonstration and insertion of visual database interfaces to improve image-generation fidelity.            (U) \$3,781 Total</p>										
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<p>(U) <b><u>A. Mission Description Continued</u></b></p> <p>(U) <u>FY 2001 (\$ in Thousands)</u></p> <p>(U) \$1,092 Complete development, demonstration and insertion of common network standards</p> <p>(U) \$2,236 Continued development, demonstration and insertion of common environmental, terrain and threat databases</p> <p>(U) \$454 Continued development, demonstration and insertion of visual database interfaces to improve image-generation fidelity</p> <p>(U) \$3,782 Total</p> <p>(U) <b><u>B. Budget Activity Justification</u></b></p> <p>This program element is included in Budget Activity 5 - Engineering and Manufacturing Development (EMD) as it supports development, demonstration and insertion of Distributed Mission Training applications.</p> <p>(U) <b><u>C. Program Change Summary (\$ in Thousands)</u></b></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;"></th> <th style="text-align: right;"><u>FY 1999</u></th> <th style="text-align: right;"><u>FY 2000</u></th> <th style="text-align: right;"><u>FY 2001</u></th> <th style="text-align: right;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget (FY 2000 PBR)</td> <td style="text-align: right;">1,896</td> <td style="text-align: right;">3,835</td> <td style="text-align: right;">3,816</td> <td style="text-align: right;">TBD</td> </tr> <tr> <td>(U) Appropriated Value</td> <td style="text-align: right;">1,961</td> <td style="text-align: right;">3,835</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 style="text-align: right;">-65</td> <td style="text-align: right;">-30</td> <td></td> <td></td> </tr> <tr> <td>    b. Small Business Innovative Research</td> <td style="text-align: right;">-13</td> <td></td> <td></td> <td></td> </tr> <tr> <td>    c. Omnibus or Other Above Threshold Reprogram</td> <td style="text-align: right;">0</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;">-12</td> <td style="text-align: right;">-24</td> <td></td> <td></td> </tr> <tr> <td>    f. Other</td> <td></td> <td></td> <td></td> <td style="text-align: right;">TBD</td> </tr> <tr> <td>(U) Adjustments to Budget Years Since FY 2000 PBR</td> <td></td> <td></td> <td style="text-align: right;">-34</td> <td></td> </tr> <tr> <td>(U) Current Budget Submit/FY 2001 PBR</td> <td style="text-align: right;">2,180</td> <td style="text-align: right;">3,781</td> <td style="text-align: right;">3,782</td> <td style="text-align: right;">TBD</td> </tr> </tbody> </table> <p>(U) <u>Significant Program Changes:</u> Not Applicable</p>				<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>	(U) Previous President's Budget (FY 2000 PBR)	1,896	3,835	3,816	TBD	(U) Appropriated Value	1,961	3,835			(U) Adjustments to Appropriated Value					a. Congressional/General Reductions	-65	-30			b. Small Business Innovative Research	-13				c. Omnibus or Other Above Threshold Reprogram	0				d. Below Threshold Reprogram	309				e. Rescissions	-12	-24			f. Other				TBD	(U) Adjustments to Budget Years Since FY 2000 PBR			-34		(U) Current Budget Submit/FY 2001 PBR	2,180	3,781	3,782	TBD
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	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Cost to Complete</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>		
(U) <b><u>D. Other Program Funding Summary (\$ in Thousands)</u></b>									
(U) PE 0207130F, F-15 Squadrons Appropriation: O&M, AF	261	33,997	28,416	29,308	39,362	40,210	40,979	Continuing	
(U) PE 0207417F, AWACS Squadron	186	3,695	3,695	3,696	3,788	3,864	3,942	Continuing	
(U) Appropriation: O&M, AF (U) PE 0207133F, O&M, F-16 Squadron	123	14,822	20,541	14,144	12,862	5,050	3,398	Continuing	

(U) **E. Acquisition Strategy**  
 An innovative acquisition strategy is being employed for some weapon systems in conjunction with DMT. Termed Commercial Training Simulation Service (CTSS), this strategy differs significantly from previous AF simulator procurements. It shifts from govt-procured simulators to a contractor-provided service. The contractor owns and provides the simulator equipment, maintains simulator concurrency with the weapons system, and has incentives to keep his equipment abreast with the latest simulator and network technologies. CTSS contracts are currently in place for F-15C, F-16, AWACS, and Phase I of the overall Operations and Integration Contract.

(U) **F. Schedule Profile**

	<u>FY 1999</u>			<u>FY 2000</u>			<u>FY 2001</u>					
	1	2	3	4	1	2	3	4	1	2	3	4
(U) F-15 Four Ship Operations began at Eglin AFB			*									
(U) F-15 Four Ship Operations began at Langley AFB				*								
(U) DMT Operations & Integration begin						X						
(U) AWACS ops begin :Tinker AFB, OK									X			

\* = completed event X = planned event

