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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE June 2001		
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604227F Distributed Mission Training (DMT)					PROJECT 4673	
COST (\$ in Thousands)		FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
4673	Distributed Mission Training (DMT)	3,469	3,748	0	0	0	0	0	0	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

Note 1: FY 02-FY07 funding transferred from PE 64227F, Distributed Mission Training, to PE 27701F, Full Combat Mission Training, to consolidate accounts supporting Distributed Mission Training in to a single PE to provide for more effective program management and oversight. This is not a program Termination.

Note 2: FY03-FY07 budget numbers do not reflect the DOD strategic review results

(U) **A. Mission Description**  
 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.

Note: FY 02-FY07 funding transferred from PE 64227F, Distributed Mission Training, to PE 27701F, Full Combat Mission Training, to consolidate accounts supporting Distributed Mission Training in to a single PE to provide for more effective program management and oversight. This is not a program Termination.

(U) **FY 2000 (\$ in Thousands)**

(U) \$1,493                      Continued development, demonstration and insertion of common network standards, multilevel security and latency management approaches.

(U) \$1,569                      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) \$3,469                      Total

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<b>05 - Engineering and Manufacturing Development</b>	<b>0604227F Distributed Mission Training (DMT)</b>	<b>4673</b>		
<b>(U) <u>A. Mission Description Continued</u></b>				
<b>(U) <u>FY 2001 (\$ in Thousands)</u></b>				
(U) \$1,092	Continued development, demonstration and insertion of multi-level security capability			
(U) \$1,328	Continued development, demonstration and insertion of DMT related technologies. Includes but not limited to common databases and improved image generation fidelity.			
(U) \$1,328	Continued Program office support			
(U) \$3,748	Total			
The following net transactions are not reflected in the FY01 program total: BTR=-120K and SBIR=-31K. These transactions are not reflected in other sections of the R-docs where an FY01 total is shown.'				
<b>(U) <u>FY 2002 (\$ in Thousands)</u></b>				
(U) \$0	No Activity			
(U) \$0	No Activity			
(U) \$0	No Activity			
(U) \$0	Total			
<b>(U) <u>B. Budget Activity Justification</u></b>				
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.				
<b>(U) <u>C. Program Change Summary (\$ in Thousands)</u></b>				
	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Total Cost</u>
(U) Previous President's Budget (FY 2001 PBR)	3,835	3,782	0	TBD
(U) Appropriated Value	3,835	3,782		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions	-43			
b. Small Business Innovative Research	-23			
c. Omnibus or Other Above Threshold Reprogram	-300			
d. Below Threshold Reprogram				
e. Rescissions		-34		
(U) Adjustments to Budget Years Since FY 2001 PBR				
Project 4673				

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<b>(U) C. Program Change Summary (\$ in Thousands) Continued</b>											
		<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Total Cost</u>						
(U)	Current Budget Submit/FY 2002 PBR	3,469	3,748	0				TBD			
(U)	<u>Significant Program Changes:</u> Not Applicable										
<b>(U) D. Other Program Funding Summary (\$ in Thousands)</b>											
		<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>FY 2006</u>	<u>FY 2007</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>Estimate</u>		
(U)	PE 0207130F, F-15 Squadrons Appropriation: O&M, AF	38,549	27,593	0	0	0	0	0	0	Continuing	TBD
(U)	PE 0207417F, AWACS Squadron	174	3,696	0	0	0	0	0	0	Continuing	TBD
(U)	Appropriation: O&M, AF (U) PE 0207133F, O&M, F-16 Squadron	11,704	18,205	0	0	0	0	0	0	Continuing	TBD
Note: FY 02 - FY 07 funding transferred to PE 27701F, Full Combat Mission Training, to consolidate accounts supporting Distributed Mission Training into a single PE to provide for more effective program management and oversight. This is not a program Termination.											
<b>(U) E. Acquisition Strategy</b>											
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 government 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 Operations and Integration .											
<b>(U) F. Schedule Profile</b>											
		<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>							

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(U) <u>F. Schedule Profile Continued</u>												
		<u>FY 2000</u>				<u>FY 2001</u>				<u>FY 2002</u>		
	1	2	3	4	1	2	3	4	1	2	3	4
(U)	DMT Operations & Integration begin											
(U)	AWACS ops begin :Tinker AFB, OK											
(U)	F-16 Four Ship Operations begin: Shaw AFB											
(U)	F-16 Single Ship Operations begin: MT Home											
		*				X					X	
											X	

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE June 2001			
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604227F Distributed Mission Training (DMT)			PROJECT 4673		
<b>(U) A. Project Cost Breakdown (\$ in Thousands)</b>										
					<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>			
(U)	DMT Network Architecture Development				1,493	0				
(U)	Common database and interface integration				1,569	0				
(U)	Demonstration of improved simulator/network fidelity				407	200				
(U)	Multi-level Security				0	1,092				0
(U)	Develop,demonstrate,insert DMT Technology				0	1,136				0
(U)	Support and management				0	1,320				0
(U)	Total				3,469	3,748				0
<b>(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)</b>										
<b>(U) Performing Organizations:</b>										
<u>Contractor or</u>	<u>Contract</u>									
<u>Government</u>	<u>Method/Type</u>	<u>Award or</u>	<u>Performing</u>	<u>Project</u>						
<u>Performing</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Activity</u>	<u>Office</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Organizations</u>										
Training Systems Product	CPAF/FPAT	Aug 99			0	2,315	2,420	0	Continuing	TBD
Group	development)									
	FFP/FPAT									
	(for									
	operations)									
<u>Support and Management Organizations</u>										
Training Systems Product			N/A	N/A	0	834	1,328	0	Continuing	TBD
Group										
<u>Test and Evaluation Organizations</u>										
Training Systems Product	CPAF/FPAT	Aug 99	TBD	TBD	0	320	0	0	Continuing	TBD
Group										

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<b>BUDGET ACTIVITY</b>	<b>PE NUMBER AND TITLE</b>				<b>PROJECT</b>	
<b>05 - Engineering and Manufacturing Development</b>	<b>0604227F Distributed Mission Training (DMT)</b>				<b>4673</b>	
	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
	<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>	<u>Program</u>
<u>Subtotals</u>						
Subtotal Product Development	0	2,315	2,420	0	TBD	TBD
Subtotal Support and Management	0	834	1,328	0	TBD	TBD
Subtotal Test and Evaluation	0	320	0	0	TBD	TBD
Total Project	0	3,469	3,748	0	TBD	TBD