

## UNCLASSIFIED

## RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

June 2001

BUDGET ACTIVITY

PE NUMBER AND TITLE

PROJECT

**05 - Engineering and Manufacturing Development****0207701F Full Combat Mission Training****5012**

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
5012 Full Combat Mission Training	0	0	3,763	3,740	3,818	3,897	3,976	4,061	0	0
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 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 new start.

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.

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

(U) \$0 No Activity

(U) \$0 Total

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

(U) \$0 No Activity

(U) \$0 Total

Project 5012

Page 1 of 4 Pages

Exhibit R-2 (PE 0207701F)

## UNCLASSIFIED

<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)</b>		DATE <b>June 2001</b>																																																							
<b>BUDGET ACTIVITY</b> <b>05 - Engineering and Manufacturing Development</b>	<b>PE NUMBER AND TITLE</b> <b>0207701F Full Combat Mission Training</b>	<b>PROJECT</b> <b>5012</b>																																																							
<p>(U) <b><u>A. Mission Description Continued</u></b></p> <p>(U) <u>FY 2002 (\$ in Thousands)</u></p> <p>(U) \$462 Continued development, demonstration and insertion of multi-level security capability</p> <p>(U) \$1,933 Continued development, demonstration and insertion of DMT related technologies. Includes but not limited to common databases and improved image generation fidelity</p> <p>(U) \$1,368 Continued Program office support</p> <p>(U) \$3,763 Total</p> <p>(U) <b><u>B. Budget Activity Justification</u></b> his 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: 55%;"></th> <th style="width: 10%; text-align: center;"><u>FY 2000</u></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: 15%; text-align: center;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget (FY 2001 PBR)</td> <td></td> <td></td> <td style="text-align: center;">0</td> <td style="text-align: center;">TBD</td> </tr> <tr> <td>(U) Appropriated Value</td> <td></td> <td></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></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></td> <td></td> <td></td> <td></td> </tr> <tr> <td>    e. Rescissions</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Budget Years Since FY 2001 PBR</td> <td></td> <td></td> <td style="text-align: center;">3,763</td> <td></td> </tr> <tr> <td>(U) Current Budget Submit/FY 2002 PBR</td> <td></td> <td></td> <td style="text-align: center;">3,763</td> <td style="text-align: center;">TBD</td> </tr> </tbody> </table> <p>(U) <b><u>Significant Program Changes:</u></b> FY 02-FY07 funding transferred from PE 64227F, Distributed 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 new start.</p>				<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Total Cost</u>	(U) Previous President's Budget (FY 2001 PBR)			0	TBD	(U) Appropriated Value					(U) Adjustments to Appropriated Value					a. Congressional/General Reductions					b. Small Business Innovative Research					c. Omnibus or Other Above Threshold Reprogram					d. Below Threshold Reprogram					e. Rescissions					(U) Adjustments to Budget Years Since FY 2001 PBR			3,763		(U) Current Budget Submit/FY 2002 PBR			3,763	TBD
	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Total Cost</u>																																																					
(U) Previous President's Budget (FY 2001 PBR)			0	TBD																																																					
(U) Appropriated Value																																																									
(U) Adjustments to Appropriated Value																																																									
a. Congressional/General Reductions																																																									
b. Small Business Innovative Research																																																									
c. Omnibus or Other Above Threshold Reprogram																																																									
d. Below Threshold Reprogram																																																									
e. Rescissions																																																									
(U) Adjustments to Budget Years Since FY 2001 PBR			3,763																																																						
(U) Current Budget Submit/FY 2002 PBR			3,763	TBD																																																					
<div style="display: flex; justify-content: space-between;"> <span>Project 5012</span> <span>Page 2 of 4 Pages</span> <span>Exhibit R-2 (PE 0207701F)</span> </div>																																																									

## UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE June 2001																																																																																																	
BUDGET ACTIVITY <b>05 - Engineering and Manufacturing Development</b>					PE NUMBER AND TITLE <b>0207701F Full Combat Mission Training</b>				PROJECT <b>5012</b>																																																																																																	
<p>(U) <b><u>D. Other Program Funding Summary (\$ in Thousands)</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th><u>FY 2000</u></th> <th><u>FY 2001</u></th> <th><u>FY 2002</u></th> <th><u>FY 2003</u></th> <th><u>FY 2004</u></th> <th><u>FY 2005</u></th> <th><u>FY 2006</u></th> <th><u>FY 2007</u></th> <th><u>Cost to</u></th> <th><u>Total Cost</u></th> </tr> <tr> <th></th> <th><u>Actual</u></th> <th><u>Estimate</u></th> <th><u>Estimate</u></th> <th><u>Estimate</u></th> <th><u>Estimate</u></th> <th><u>Estimate</u></th> <th><u>Estimate</u></th> <th><u>Estimate</u></th> <th><u>Complete</u></th> <th></th> </tr> </thead> <tbody> <tr> <td>(U) AF RDT&amp;E</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) PE 0207701F, Full Combat Mission Training, O&amp;M, AF</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">76,863</td> <td style="text-align: center;">75,517</td> <td style="text-align: center;">68,674</td> <td style="text-align: center;">67,621</td> <td style="text-align: center;">68,657</td> <td style="text-align: center;">69,734</td> <td style="text-align: center;">Continuing</td> <td style="text-align: center;">TBD</td> </tr> </tbody> </table> <p>(U) <b><u>E. Acquisition Strategy</u></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 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 Operations and Integration.</p> <p>(U) <b><u>F. Schedule Profile</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th colspan="4"><u>FY 2000</u></th> <th colspan="4"><u>FY 2001</u></th> <th colspan="4"><u>FY 2002</u></th> </tr> <tr> <th></th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>(U) F-16 Four Ship Operations begin: Shaw AFB</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td>(U) F-16 Single Ship Operations begin: MT Home</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> </tbody> </table>												<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</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>Complete</u>		(U) AF RDT&E											(U) PE 0207701F, Full Combat Mission Training, O&M, AF	0	0	76,863	75,517	68,674	67,621	68,657	69,734	Continuing	TBD		<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) F-16 Four Ship Operations begin: Shaw AFB										X			(U) F-16 Single Ship Operations begin: MT Home										X		
	<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</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>Complete</u>																																																																																																	
(U) AF RDT&E																																																																																																										
(U) PE 0207701F, Full Combat Mission Training, O&M, AF	0	0	76,863	75,517	68,674	67,621	68,657	69,734	Continuing	TBD																																																																																																
	<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) F-16 Four Ship Operations begin: Shaw AFB										X																																																																																																
(U) F-16 Single Ship Operations begin: MT Home										X																																																																																																

Project 5012
Page 3 of 4 Pages
Exhibit R-2 (PE 0207701F)

## UNCLASSIFIED

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE June 2001		
BUDGET ACTIVITY					PE NUMBER AND TITLE			PROJECT	
<b>05 - Engineering and Manufacturing Development</b>					<b>0207701F Full Combat Mission Training</b>			<b>5012</b>	
(U)	<b><u>A. Project Cost Breakdown (\$ in Thousands)</u></b>								
						<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	
(U)	Multi-level Security								462
(U)	Develop,demonstrate,insert DMT Technology								1,933
(U)	Support and management								1,368
(U)	Total								3,763
(U)	<b><u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u></b>								
(U)	<b><u>Performing Organizations:</u></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>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>Product Development Organizations</u>								
	Training Systems Product Group							2,395	Continuing
	TBD								
	<u>Support and Management Organizations</u>								
	Training Systems Product Group							1,368	Continuing
	TBD								
	<u>Test and Evaluation Organizations</u>								
						<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>
						<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>
	<u>Subtotals</u>								
	Subtotal Product Development							2,395	TBD
	TBD								
	Subtotal Support and Management							1,368	TBD
	TBD								
	Subtotal Test and Evaluation								
	Total Project							3,763	TBD
	TBD								