

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE June 2001	
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604708F Civil, Fire, Environmental, Shelter					
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
Total Program Element (PE) Cost	2,595	0	0	0	0	0	0	0	Continuing	TBD
2505 Aircraft Firefighting Suppression And Rescue	2,416	0	0	0	0	0	0	0	Continuing	TBD
2674 Tactical Shelters	179	0	0	0	0	0	0	0	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

The Air Force is in the process of consolidating three small dollar Civil Engineer (CE) readiness R&D programs ( PE64617f - Agile Combat Support; PE64708f - Civil , Fire, Environmental, Shelters; and the 3600 portion of PE28031f - War Reserve Material) under PE 64617. This will meet the intent of the House action to eliminate smaller PEs and provide a more cohesive, manageable CE Readiness modernization effort.

(U) **A. Mission Description**

This program funds the development, testing and evaluation of materials, equipment and procedures in the following areas:

(1) Aircraft Fire Fighting, Suppression and Rescue and Civil Engineer (CE) Readiness/Force Protection (FP). CE readiness is supported by multimedia training systems for Fire Fighting, CE Readiness/FP, including Explosive Ordnance Disposal (EOD) by developing interactive training scenarios which simulate hazardous situations, allows both training and testing of response capabilities, and complements field training while reducing time, cost and direct exposure to hazards. Develops, tests and evaluates new concepts and technology applications for fire fighting, suppression and rescue and CE Readiness/FP to improve rapid deployment capabilities in support of bare base/Air Expeditionary Forces (AEF), contingency operating areas and main operating bases.

(2) Tactical Shelters is the USAF portion of a tri-service effort to develop standardized, low maintenance, highly survivable shelters and shelter accessories that are easily mobilized and compatible with air, sea and land transport systems. These products will effectively support high mobility aircraft support, command and control, communications, medical, and data processing units for the tactical and strategic forces. These shelters also optimize the latest enhancements of force protection technology.

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<b>BUDGET ACTIVITY</b> <b>05 - Engineering and Manufacturing Development</b>	<b>PE NUMBER AND TITLE</b> <b>0604708F Civil, Fire, Environmental, Shelter</b>
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(U) **B. Budget Activity Justification**  
 This program is in budget activity five, Engineering and Manufacturing Development, because it takes emerging technologies and concepts and develops them for Air Force use.

(U) **C. Program Change Summary (\$ in Thousands)**

	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Total Cost</u>
(U) Previous President's Budget (FY 2001 PBR)	2,768	2,824		
(U) Appropriated Value	2,719	0		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions	-2	0		
b. Small Business Innovative Research				
c. Omnibus or Other Above Threshold Reprogram	-94			
d. Below Threshold Reprogram				
e. Rescissions	-28			
(U) Adjustments to Budget Years Since FY 2001 PBR		0		
(U) Current Budget Submit/FY 2002 PBR	2,595	0		TBD

(U) **Significant Program Changes:**  
 HAC moved FY01 funds to PE64617.

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BUDGET ACTIVITY <b>05 - Engineering and Manufacturing Development</b>	PE NUMBER AND TITLE <b>0604708F Civil, Fire, Environmental, Shelter</b>	PROJECT <b>2505</b>
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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
2505 Aircraft Firefighting Suppression And Rescue	2,416	0	0	0	0	0	0	0	Continuing	TBD

(U) **A. Mission Description**  
 Aircraft Fire Fighting, Suppression and Rescue and Civil Engineer (CE) Readiness/Force Protection (FP). CE readiness is supported by multimedia training systems for Fire Fighting, CE Readiness/FP, including(Explosive Ordnance Disposal (EOD) by developing interactive training scenarios which simulate hazardous situations, allows both training and testing of response capabilities, and complements field training while reducing time, cost and direct exposure to hazards. Develops, tests and evaluates new concepts and technology applications for fire fighting, suppression and rescueand CE Readiness/FP to improve rapid deployment capabilities in support of bare base/Air Expeditionary Force (AEF), contingency operating areas and main operating bases.

(U) **FY 2000 (\$ in Thousands)**  
 (U) \$2,106 Continued courseware development of CE/MTS.  
 (U) \$160 Continued commercial technology exploitation.  
 (U) \$150 Other technical support.  
 (U) \$2,416 Total

(U) **FY 2001 (\$ in Thousands)**  
 (U) \$0 No Activity; funding incorporated into PE64617F  
 (U) \$0 Total

(U) **FY 2002 (\$ in Thousands)**  
 (U) \$0 No Activity  
 (U) \$0 Total

(U) **B. Project Change Summary**  
 Program consolidated under PE 64617 effective FY01.

(U) **C. Other Program Funding Summary (\$ in Thousands)**

	<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>Complete</u>							

(U) N/A

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<p>(U) <b><u>D. Acquisition Strategy</u></b>                      Multimedia courseware materials and commercial technology items will continue to be developed, tested, modified and readied for production and procurement by field units. Commercial technology exploitation provides extremely low cost, yet high value suitability testing of low dollar commercial equipment with potential for military application. Items are proposed each year by field units and published test reports provide recommendations about whether or not to procure items.</p>																																																																																																																																																																																																									
<p>(U) <b><u>E. Schedule Profile</u></b></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;"></th> <th colspan="3" style="text-align: center;"><u>FY 2000</u></th> <th colspan="3" style="text-align: center;"><u>FY 2001</u></th> <th colspan="3" style="text-align: center;"><u>FY 2002</u></th> </tr> <tr> <th style="width:40%;"></th> <th style="text-align: center;">1</th> <th style="text-align: center;">2</th> <th style="text-align: center;">3</th> <th style="text-align: center;">4</th> <th style="text-align: center;">1</th> <th style="text-align: center;">2</th> <th style="text-align: center;">3</th> <th style="text-align: center;">4</th> <th style="text-align: center;">1</th> <th style="text-align: center;">2</th> <th style="text-align: center;">3</th> <th style="text-align: center;">4</th> </tr> </thead> <tbody> <tr> <td>(U) CE Multimedia Training Systems</td> <td></td> </tr> <tr> <td>(U) Complete HAZMAT Technician</td> <td></td> </tr> <tr> <td>(U) Complete Emerg Response to Terrorism</td> <td></td> </tr> <tr> <td>(U) Complete T.O. 00105E-9</td> <td></td> </tr> <tr> <td>(U) Complete 4 HAZMAT Courses</td> <td></td> </tr> <tr> <td>(U) Complete CRAF for 737/757/777 Aircraft</td> <td></td> </tr> <tr> <td>(U) Fire Commercial Technology</td> <td></td> </tr> <tr> <td>(U) Complete Mobile Fire Training System</td> <td></td> </tr> <tr> <td>(U) Complete AIM Safety Detectors</td> <td></td> </tr> <tr> <td>(U) Complete Help Mate Telephone System</td> <td></td> </tr> <tr> <td>(U) Complete FD On-Scene</td> <td></td> </tr> <tr> <td colspan="13">* = Completed Milestone</td> </tr> <tr> <td colspan="13">X = Planned Milestone</td> </tr> </tbody> </table>											<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) CE Multimedia Training Systems													(U) Complete HAZMAT Technician													(U) Complete Emerg Response to Terrorism													(U) Complete T.O. 00105E-9													(U) Complete 4 HAZMAT Courses													(U) Complete CRAF for 737/757/777 Aircraft													(U) Fire Commercial Technology													(U) Complete Mobile Fire Training System													(U) Complete AIM Safety Detectors													(U) Complete Help Mate Telephone System													(U) Complete FD On-Scene													* = Completed Milestone													X = Planned Milestone												
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Project 2505				Page 4 of 10 Pages				Exhibit R-2A (PE 0604708F)																																																																																																																																																																																																	

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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>0604708F Civil, Fire, Environmental, Shelter</b>			<b>2505</b>			
<b>(U) A. Project Cost Breakdown (\$ in Thousands)</b>											
						<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>	
(U)	Contracts					1,083					
(U)	A&AS Support					200					
(U)	Other Government Agencies					883					
(U)	Materials/Equipment					100					
(U)	Other Technical Support					150					
(U)	Total					2,416					
<b>(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)</b>											
<b>(U) Performing Organizations:</b>											
	<u>Contractor or Government</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Performing Activity</u>	<u>Project Office</u>	<u>Total Prior to FY 2000</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget to Complete</u>	<u>Total Program</u>
		<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>						
<u>Product Development Organizations</u>											
	Multimedia Training Sys	Mult	Cont	14,500	14,500	2,597	2,118			Continuing	TBD
	Fire Commercial Technology	Mult	Cont	1,500	1,500	250	160			Continuing	TBD
	Exploitation										
<u>Support and Management Organizations</u>											
	Various			1,950	1,950	442	150			Continuing	TBD
<u>Test and Evaluation Organizations</u>											
	Various			750	750	70	0			0	70
<b>(U) Government Furnished Property:</b>											
	<u>Item</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Delivery</u>		<u>Total Prior to FY 2000</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>							
<u>Product Development Property</u>											
	None										

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BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT				
<b>05 - Engineering and Manufacturing Development</b>	<b>0604708F Civil, Fire, Environmental, Shelter</b>	<b>2505</b>				
<p>(U) <u>Government Furnished Property Continued:</u></p> <p style="margin-left: 20px;"><u>Support and Management Property</u></p> <p style="margin-left: 40px;">None</p> <p style="margin-left: 20px;"><u>Test and Evaluation Property</u></p> <p style="margin-left: 40px;">None</p>						
<u>Subtotals</u>	<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>
Subtotal Product Development	2,847	2,278			TBD	TBD
Subtotal Support and Management	442	150			TBD	TBD
Subtotal Test and Evaluation	70	0			0	70
Total Project	3,359	2,428			TBD	TBD

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BUDGET ACTIVITY 05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604708F Civil, Fire, Environmental, Shelter					PROJECT 2674																																		
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																																	
2674	Tactical Shelters	179	0	0	0	0	0	0	0	Continuing	TBD																																	
<p>(U) <b><u>A. Mission Description</u></b>                      Provides reliable, cost effective tactical shelters required to ensure the success of Air Force missions, provides Air Force membership in the DOD Tactical Shelter Program, and provides technology insertion for shelter development.</p> <p>(U) <b><u>FY 2000 (\$ in Thousands)</u></b>                      (U) \$66 Continued research, development and acquisition of composite tactical shelter.                      (U) \$102 Established capability to evaluate shelter design and performance and perform shelter integration analysis.                      (U) \$11 Provided direct feedback and ensure Air Force requirements are identified to JOCOTAS and ASTM.                      (U) \$179 Total</p> <p>(U) <b><u>FY 2001 (\$ in Thousands)</u></b>                      (U) \$0 No Activity                      (U) \$0 Total</p> <p>(U) <b><u>FY 2002 (\$ in Thousands)</u></b>                      (U) \$0 No Activity                      (U) \$0 Total</p> <p>(U) <b><u>B. Project Change Summary</u></b>                      Project consolidated under PE 64617 effective FY01</p> <p>(U) <b><u>C. Other Program Funding Summary (\$ in Thousands)</u></b></p> <table border="0"> <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) N/A</td> <td></td> </tr> </tbody> </table> <p>(U) <b><u>D. Acquisition Strategy</u></b>                      Tactical shelters development will continue to support Initial Deployable Kitchen (IDK) Program</p>													<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>Complete</u>		(U) N/A																
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Project 2674		Page 7 of 10 Pages					Exhibit R-2A (PE 0604708F)																																					

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BUDGET ACTIVITY						PE NUMBER AND TITLE						PROJECT										
05 - Engineering and Manufacturing Development						0604708F Civil, Fire, Environmental, Shelter						2674										
(U) <u>E. Schedule Profile</u>																						
											<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>							
(U) N/A											1	2	3	4	1	2	3	4	1	2	3	4

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BUDGET ACTIVITY 05 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604708F Civil, Fire, Environmental, Shelter				PROJECT 2674		
(U) <b>A. Project Cost Breakdown (\$ in Thousands)</b>										
						<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>
(U)	MERWS (modular extendible ridged wall shelter) program									
(U)	Composite Shelter Development					66				
(U)	Shelter design, performance and analysis					102				
(U)	JOCOTAS program					11				
(U)	Total					179				
(U) <b>B. Budget Acquisition History and Planning Information (\$ in Thousands)</b>										
(U) <b>Performing Organizations:</b>										
<u>Contractor or Government</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Performing Activity</u>	<u>Project Office</u>	<u>Total Prior to FY 2000</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>						
<u>Product Development Organizations</u>										
	MERWS Pgm	Multiple	Multiple			0				0
	Composite Shelter Dev	Multiple	Multiple			66			Continuing	TBD
	Shelter design, performance, and analysis	Multiple	Multiple			102			Continuing	TBD
	JOCOTAS Pgm	Multiple	Multiple			11			Continuing	TBD
<u>Support and Management Organizations</u>										
	N/A					0				0
<u>Test and Evaluation Organizations</u>										
	N/A					0				0
(U) <b>Government Furnished Property:</b>										
<u>Item</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Delivery</u>		<u>Total Prior to FY 2000</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget to Complete</u>	<u>Total Program</u>
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<b>(U) Government Furnished Property Continued:</b>									
	<u>Contract</u>								
	<u>Method/Type</u>	<u>Award or</u>							
<u>Item</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Delivery</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</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 Property</u>									
None									
<u>Support and Management Property</u>									
None									
<u>Test and Evaluation Property</u>									
None									
				<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Subtotals</u>				<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development					179			TBD	TBD
Subtotal Support and Management					0				0
Subtotal Test and Evaluation					0				0
Total Project					179			TBD	TBD