

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2000	
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0208031F WRM-EQUIPMENT/SECONDARY ITEMS				PROJECT 674668	
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
674668 Shelter Development	1,440	1,450	1,475	2,557	2,775	2,830	2,887	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0
<p>SAF/AQPS, HQ USAF/ILSR and HQ USAF/ILEX are 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. This consolidation will begin in February 2000 and should be complete by the beginning of FY01 (October 2000).</p> <p>(U) <u>A. Mission Description</u></p> <p>(U) A. Mission Description</p> <p>1. This program supports Air Force (AF) Bare Base Mobility Equipment, also known as Harvest Falcon (HF) and Harvest Eagle (HE). Designed and sized to support the current Joint Chiefs of Staff (JCS) wartime planning scenario of two nearly simultaneous Major Theater Wars (2MTW), this equipment provides theater warfighters billeting, industrial, and air field capability to support up to 68,200 combat troops and 822 aircraft at 15 austere locations by building complete temporary bases from the ground up. Of the two systems, HF is the newest and fields the greatest capability (housekeeping plus air base infrastructures). The HF system provides capability directed in the FY90-94 Defense Planning Guidance (DPG) that initially tasked the Air Force to support United States Central Command (USCENTCOM) Rapid Deployment Forces (RDF) and save critical airlift resources through theater prepositioning. Subsequent DPGs have continued this requirement. Harvest Falcon remains a top priority procurement requirement of the Commander-In-Chief/Central Command.</p> <p>2. The outstanding reputation enjoyed by the AF Bare Base program, established during the Gulf War, has continued to grow in successive Military-Operations-Other-Than-War (MOOTW) throughout the world. These include Operation Southern Watch, Provide Relief, Provide Promise, Provide Comfort, Restore Hope, Sea Signal, Uphold Democracy, Joint Endeavor, Desert Focus, Desert Fox, Noble Anvil and Allied Force. Significant quantities of Harvest Falcon and Harvest Eagle assets were successfully employed during Operations Allied Force and Noble Anvil to support operational and humanitarian requirements in Kosovo, Albania, Italy, and Northern Turkey. The unparalleled success of the AF Bare Base program in providing critically needed austere basing facilities has resulted in continued demand for the equipment to support MOOTW. This high Operational Tempo (OPTEMPO) utilization continues to take its toll on system assets. As a result, the majority of HF and HE sets currently in the inventory require comprehensive repair or replacement. A majority of the equipment has been used for over three years, well beyond its original design parameters. Equipment modernization and reconstitution funding thus remains a crucial issue.</p>									
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<p>(U) <u>A. Mission Description Continued</u></p> <p>3. The Air Force Bare Base program has had unparalleled success meeting the demands in support of MOOTW. This has taken its toll on equipment, and as a result the majority of HF and HE equipment has been in use well beyond design parameters and requires comprehensive repair or replacement. In addition, the Expeditionary Air Force concept demands systems that are lighter leaner, more maintainable, and more deployable. Research, Development, Testing, and Evaluation (RDT&E) funds support these modernization and reconstitution requirements.</p> <p>(U) <u>FY 1999 (\$ in Thousands)</u></p> <table> <tr> <td>(U) \$1,227</td> <td>Initiated EMD for Deployable Waste Management System</td> </tr> <tr> <td>(U) \$213</td> <td>Continued other technical support</td> </tr> <tr> <td>(U) \$1,440</td> <td>Total</td> </tr> </table> <p>(U) <u>FY 2000 (\$ in Thousands)</u></p> <table> <tr> <td>(U) \$590</td> <td>Initiate EMD for Bare Base Systems Cold Weather Package</td> </tr> <tr> <td>(U) \$600</td> <td>Continue EMD for Deployable Waste Management System</td> </tr> <tr> <td>(U) \$260</td> <td>Continue other technical support</td> </tr> <tr> <td>(U) \$1,450</td> <td>Total</td> </tr> </table> <p>(U) <u>FY 2001 (\$ in Thousands)</u></p> <table> <tr> <td>(U) \$300</td> <td>Continue EMD for Bare Base Systems Cold Weather Package</td> </tr> <tr> <td>(U) \$860</td> <td>Continue EMD for Deployable Waste Management System</td> </tr> <tr> <td>(U) \$315</td> <td>Continue other technical support</td> </tr> <tr> <td>(U) \$1,475</td> <td>Total</td> </tr> </table> <p>(U) <u>B. Budget Activity Justification</u></p> <p>This program is in Budget Activity 7 because it supports development of operational HF/HE equipment in modernized configurations which reduce deployment 'footprints', required transport airlift sorties, and increase operational efficiencies.</p>			(U) \$1,227	Initiated EMD for Deployable Waste Management System	(U) \$213	Continued other technical support	(U) \$1,440	Total	(U) \$590	Initiate EMD for Bare Base Systems Cold Weather Package	(U) \$600	Continue EMD for Deployable Waste Management System	(U) \$260	Continue other technical support	(U) \$1,450	Total	(U) \$300	Continue EMD for Bare Base Systems Cold Weather Package	(U) \$860	Continue EMD for Deployable Waste Management System	(U) \$315	Continue other technical support	(U) \$1,475	Total
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(U) \$315	Continue other technical support																							
(U) \$1,475	Total																							
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BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0208031F WRM-EQUIPMENT/SECONDARY ITEMS			PROJECT 674668		
(U) C. Program Change Summary (\$ in Thousands)									
				<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>		<u>Total Cost</u>	
(U)	Previous President's Budget (FY 2000 PBR)			1,466	1,467	1,475		TBD	
(U)	Appropriated Value			1,470	1,459				
(U)	Adjustments to Appropriated Value								
	a. Congressional/General Reductions			-12	-9				
	b. Small Business Innovative Research			-18					
	c. Omnibus or Other Above Threshold Reprogram								
	d. Below Threshold Reprogram								
	e. Rescissions								
	f. Other								
(U)	Adjustments to Budget Years Since FY 2000 PBR							TBD	
(U)	Current Budget Submit/FY 2001 PBR			1,440	1,450	1,475		TBD	
(U)	<u>Significant Program Changes:</u>								
(U) D. Other Program Funding Summary (\$ in Thousands)									
		<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>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)	AF RDT&E								
(U)	Other APPN								
(U)	Other Procurement, AF, Other Base Maintenance and Support Equipment:								
(U)	WRM-Equipment/Secondary Items (0208031F) (WSC 845420), P-1: 108	35,399	46,455	50,021	27,421	26,809	20,148	19,348	Continuing

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BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0208031F WRM-EQUIPMENT/SECONDARY ITEMS	PROJECT 674668
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(U) **E. Acquisition Strategy**
 The SPO is evaluating and testing commercial solutions to determine options for militarizing commercially-available products for cold weather systems and waste management systems. It will also evaluate work performed by Wright Laboratories, which has identified plasma-arc technology as a potential solution to safely, effectively and efficiently incinerate medical and hazardous wastes. This technology also provides capability to eliminate other waste materials, such as solid wastes/garbage, and other materials placed in landfills. Contracts will be competitive, firm fixed price.

(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) BARE BASE COLD WEATHER PKG												
(U) - Release RFP						X						
(U) - Contract Award							X					
(U) - Conduct Verification Testing								X				
(U) - Milestone III Decision									X			
(U) DEPLOYABLE WASTE MGT SYS												
(U) - Initiate Waste Management Study		*										
(U) -Complete Waste Management Study				*								
(U) - Milestone I/II Decision					X					X		
(U) - Contract Award						X						
(U) - Phase I Milestone III Decision										X		

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE February 2000		
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT		
07 - Operational System Development				0208031F WRM-EQUIPMENT/SECONDARY ITEMS				674668		
(U) A. Project Cost Breakdown (\$ in Thousands)										
						<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>		
(U)	Contracts					250	640	530		
(U)	A&AS Support					969	480	460		
(U)	Other Government Agencies					0	50	120		
(U)	Material/Equipment					0	20	50		
(U)	Other Technical Support					221	260	315		
(U)	Total					1,440	1,450	1,475		
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)										
(U) Performing Organizations:										
<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 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Organizations</u>										
Bare Base Systems Cold	C/FP	3Qtr/FY00	910	910	0	0	590	300	Continuing	TBD
Weather Package										
Deployable Waste Management System	C/FP	4Qtr/FY99	3,948	3,948	0	1,440	860	1,175	Continuing	TBD
<u>Support and Management Organizations</u>										
<u>Test and Evaluation Organizations</u>										
					<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 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development					0	1,440	1,450	1,475	TBD	TBD
Subtotal Support and Management										
Subtotal Test and Evaluation										
Total Project					0	1,440	1,450	1,475	TBD	TBD