

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)										DATE June 2001	
BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0208031F WRM-EQUIPMENT/SECONDARY ITEMS					PROJECT 4668	
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
4668	Shelter Development	1,401	1,462	0	0	0	0	0	0	Continuing	TBD
	Quantity of RDT&E Articles	0	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 Materiel) under PE 64617F. PE28031F will be merged into PE64617F effective FY02. This will meet the intent of the House action to eliminate smaller PEs and provide a more cohesive, manageable CE Readiness modernization effort. FY03-FY07 budget numbers do not reflect DoD's strategic review results.</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> 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>				
(U) <u>FY 2000 (\$ in Thousands)</u>				
(U) \$605	Initiate EMD for Bare Base Systems Cold Weather Package			
(U) \$434	Complete Deployable Waste Management System Study			
(U) \$362	Continue other technical support			
(U) \$1,401	Total			
(U) <u>FY 2001 (\$ in Thousands)</u>				
(U) \$380	Complete EMD for Bare Base Systems Cold Weather Package			
(U) \$880	Complete EMD for Deployable Power Generation and Distribution System			
(U) \$202	Continue other technical support			
(U) \$1,462	Total			
(U) <u>FY 2002 (\$ in Thousands)</u>				
(U) \$0	No Activity			
(U) \$0	Total			
(U) <u>B. Budget Activity Justification</u> 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.				
(U) <u>C. Program Change Summary (\$ in Thousands)</u>				
	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Total Cost</u>
(U) Previous President's Budget (FY 2001 PBR)	1,467	1,475	0	TBD
(U) Appropriated Value	1,459	1,475		TBD
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions	-9			-9
b. Small Business Innovative Research				
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							June 2001			
BUDGET ACTIVITY				PE NUMBER AND TITLE			PROJECT			
07 - Operational System Development				0208031F WRM-EQUIPMENT/SECONDARY ITEMS			4668			
(U) C. Program Change Summary (\$ in Thousands) Continued										
		<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Total Cost</u>					
c. Omnibus or Other Above Threshold Reprogram										
d. Below Threshold Reprogram										
e. Rescissions										
		-49	-13		-62					
(U) Adjustments to Budget Years Since FY 2001 PBR										
(U) Current Budget Submit/FY 2002 PBR										
		1,401	1,462	0		TBD				
(U) <u>Significant Program Changes:</u>										
FY01 funding for Deployable Waste realigned to support higher priorities in the Deployable Power Generation and Distribution System (DPGDS) program (reference Acquisition Strategy for detailed explanation). PM MEP funded DPGDS support in FY00.										
(U) D. 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>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) Other APPN										
(U) Other Procurement, AF,										
	45,403	49,671	27,421	26,809	20,148	19,348	20,500	20,700	Continuing	Continuing
Other Base Maintenance and Support										
Equipment:WRM-Equipment /Secondary Items (0208031F) (WSC 845420), P-1: 108										
(U) E. Acquisition Strategy										
1. The SPO is evaluating and testing commercial solutions to determine options for militarizing commercially-available products for cold weather systems and waste management systems. In FY00 it completed and extensive Deployable Waste Management Study, which determined the on-site waste treatment equipment and investigation of emerging technologies. Power requirements were analyzed, along with operatility factors, logistics impacts and cost drivers. Engineering analyses were performed for each candidate technology; specific operational requirements were defined and definitive waste stream data was incorporated. The SPO will also evaluate work performed by Air Force Research Laboratories, which has identified technologies with potential solution to safely, effectively and efficiently incinerate medical and hazardous wastes. This capability may also eliminate other waste materials, such as solid wastes/garbage, and other materials placed in landfills. Transition to the SPO										
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(U) **E. Acquisition Strategy Continued**
in FY04. Contracts will be competitive, firm fixed price.

2. The SPO is also developing the next generation of electrical power generation and distribution equipment to support Harvest Eagle and Harvest Falcon deployable Bare Base encampments and US Army Prime Power Units. This AF-led joint effort with the DOD Program Manager for Mobile Electric Power (PM-MEP) will use state-of-the-art, commercially available equipment and parts support to acheive reduced airlift (38% achieved), reduced fuel consumption (16% achieved) and improved load performance. PM-MEP funded FY00 T&E. Due to new requirements requested by both the Air Force and agreed upon by the Army, FY01 provides funds to complete T&E.

(U) **F. Schedule Profile**

	<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) BARE BASE COLD WEATHER PKG												
(U) - Release RFP			*									
(U) - Contract Award				*								
(U) - Conduct Verification Testing							*					
(U) DEPLOYABLE WASTE MGT SYS												
(U) -Complete Waste Management Study			*									
(U) DEPLOYABLE POWER GENERATION AND DISTRIBUTION SYSTEM (DPGDS)												
(U) - Complete Implementation of New Requirements							*					
(U) - Complete OT&E											X	
(U) - Milestone III Decision											X	
(U) - Award Production Option											X	

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE June 2001			
BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0208031F WRM-EQUIPMENT/SECONDARY ITEMS			PROJECT 4668		
(U) <u>A. Project Cost Breakdown (\$ in Thousands)</u>										
						<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>
(U)	Contracts					375		660		0
(U)	A&AS Support					490		540		0
(U)	Other Government Agencies					164		50		0
(U)	Material/Equipment					10		10		0
(U)	Other Technical Support					362		202		0
(U)	Total					1,401		1,462		0
(U) <u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u>										
(U) <u>Performing Organizations:</u>										
<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>										
Bare Base Systems Cold	C/FP	4Qtr/FY00	910	910	0	434	380	0	Continuing	TBD
Weather Package										
Deployable Waste Management System	C/FP	1Qtr/FY01	3,948	3,948	1,466	605	202	0	Continuing	TBD
Deployable Power Generation and Distribution System	C/FP	3Qtr/FY98	2,238	2,238	1,690	362	880	0	Continuing	TBD
<u>Support and Management Organizations</u>										
<u>Test and Evaluation Organizations</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>Subtotals</u>										
Subtotal Product Development					3,156	1,401	1,462	0	TBD	TBD
Subtotal Support and Management										
Subtotal Test and Evaluation										
Total Project					3,156	1,401	1,462	0	TBD	TBD