

<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)</b>	DATE <b>February 1999</b>
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<b>BUDGET ACTIVITY</b> <b>7 - Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0208031F WRM-Equipment/Secondary Items</b>	<b>PROJECT</b> <b>4668</b>
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COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
4668 Shelter Development	0	1,466	1467	1489	2579	2800	2858	2918	0	15,581
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

**(U) A. Mission Description**

This program funds development, testing and evaluation of materials, equipment, and procedures for Air Force Bare Base mobility capability better known as Harvest Falcon (HF) and Harvest Eagle (HE). Bare Base is designated and sized to support two near Major Theater Wars (MTW), which provides theater warfighters billeting, industrial, and air field capability to support a total of 68,200 combat troops and 822 aircraft at 15 austere locations--building complete bases from the ground up. Of the two systems, HF is the newest and has the greatest capability (housekeeping and airbase infrastructure). The FY00-05 Defense Guidance tasks the Air Force to support Southwest Asia contingency operations and save critical airlift resources through theater prepositioning. The outstanding reputation of the Air Force Bare Base program, established during the Gulf War, has continued in successive Military-Operations-Other-Than-War (MOOTW) throughout the world. These range from Operations Southern Watch, Provide Relief, Provide Promise, Provide Comfort, Restore Hope, Sea Signal, Uphold Democracy, and Joint Endeavor, support for the aftermath of Hurricanes Andrew and Hugo, Typhoon Paka, and support for Presidential visits to Africa and China. Bare Base Systems have also supported the NASA Space Shuttle throughout the world. Harvest Falcon remains a top priority for USCINCCOM and USCINCENT, and the Commnader, ACC, for the AF Expeditionary Air Force concept. Supporting MOOTW has taken its toll on equipment, and as a result HF and HE equipment requires comprehensive repair or replacement. Air Force reconstitution efforts continue although on-going MOOTW deployments delay the get well process.

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<p>(U) <u>FY 1998 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> <li>- (U) \$ 0 TOTAL</li> </ul>		
<p>(U) <u>FY 1999 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> <li>- (U) \$1,200 Initiate EMD for Deployable Waste Management System</li> <li>- (U) \$ 266 Continue other technical support</li> <li>- (U) \$1,466 TOTAL</li> </ul>		
<p>(U) <u>FY 2000 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> <li>- (U) \$ 597 Initiate EMD for Bare Base Systems Cold Weather Package</li> <li>- (U) \$ 597 Continue EMD for Deployable Waste Management System</li> <li>- (U) \$ 273 Continue other technical support</li> <li>- (U) \$1,467 Total</li> </ul>		
<p>(U) <u>FY 2001 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> <li>- (U) \$ 296 Continue EMD for Bare Base Systems Cold Weather Package</li> <li>- (U) \$ 917 Continue EMD for Deployable Waste Management System</li> <li>- (U) \$ 276 Continue other technical support</li> <li>- (U) \$1,489 Total</li> </ul>		
<p>(U) <b>B. <u>Budget Activity Justification:</u></b></p> <p>This program is in Budget Activity 7 because it supports development of operational HF/HE equipment, leading to deployment of new systems which provide measurable reductions in airlift sorties and increased operational efficiencies.</p> <p>Bare Base Systems Cold Weather Package: Harvest Falcon housekeeping sets are subject to worldwide deployment and a limited capability must be established to function in extreme cold weather conditions. This effort provides freeze protection for Harvest Falcon water distribution systems (pumps, pipes, etc.) and capabilities to heat tents/shelters deployed to extreme cold weather environments.</p> <p>Deployable Waste Management Systems will reduce the amount of solid, medical and hazardous waste material that must be managed and/or disposed. Solutions to be investigated include on-site incineration for solid, medical and hazardous waste materials, shredders and compactors for landfill refuse, and a closed loop waste water processing system to minimize the quantity of wasted products and reduce the need for large quantities of water to process waste at the contingency base.</p>		
Project 4668	Page 2 of 6 Pages	Exhibit R-2 (PE 0208031F)

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<b>(U) C. <u>Program Change Summary (\$ in Thousands)</u></b>										
	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>					
(U) Previous President's Budget	0	1,470	1,493	1,517	Cont					
(U) Appropriated Value		1,470								
(U) Adjustments to Appropriated Value										
a. Congressional Gen Reductions										
b. SBIR										
c. Omnibus or Other Above Threshold Reprogramming										
d. Below Threshold Reprogramming										
e. Rescissions										
(U) Adjustments to Budget Years Since FY 1999 PB	0	-4	-26	-28						
(U) Current Budget Submit/FY2000 President's Budget	0	1,466	1,467	1,489	Cont					
 (U) Significant Program Changes: Not Applicable										
 <b>(U) D. <u>Other Program Funding Summary (\$ in Thousands)</u></b>										
	<u>FY 1998</u>	<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>To Compl</u>	<u>Total Cost</u>
(U) Other Procurement, AF, Other Base Maintenance and Support Equipment:										
WRM-Equipment/Secondary Items (0208031F) (WSC 845420), P-1: 100	26,267	35,883	47,102	51,301	28,037	27,702	21,042	20,443	Cont	Cont

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(U) E. **Acquisition Strategy:** The SPO will evaluate and test commercial solutions to determine options for militarizing commercially-available products for cold weather 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 expected to be competitive, firm fixed price.

(U) F. **Schedule Profile**

	<u>FY 1998</u>				<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
BARE BASE COLD WEATHER PKG																
- Milestone I/II Brief									X							
- Contract Award										X						
- Preliminary Design Review															X	
DEPLOYABLE WASTE MGT SYS																
- Milestone I/II Brief						X										
- Contract Award								X								
- Preliminary Design Review															X	

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<b>RDT&amp;E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)</b>	DATE <b>February 1999</b>
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**(U) A. Project Cost Breakdown (\$ in Thousands)**

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
(U) Contracts	0	550	558	566
(U) A&AS Support	0	450	431	435
(U) Other Government Agencies		180	182	185
(U) Material/Equipment		20	23	24
(U) Other Technical Support		266	273	279
(U) Total	0	1,466	1,467	1,489

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**(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)**

**Performing Organizations:**

Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
<u>Product Development Organizations</u>											
Bare Base Systems Cold Weather Package	C/FP	3Qtr/FY00	910	910	0	0	0	597	296	Cont	Cont
Deployable Waste Management System	C/FP	4Qtr/FY99	3,948	3,948	0	0	1,200	597	917	Cont	Cont
Sub-Total			6,198	6,198	0	0	1,200	1,194	1,213	Cont	Cont
Support and Management Organizations					0	0	266	273	279		Cont
Test and Evaluation Organizations: N/A											
<u>Government Furnished Property: None</u>											
Subtotal Product Development					0	0	1,200	1,194	1,213		
Subtotal Support and Management					0	0	266	273	276		
Subtotal Test and Evaluation					0	0	0	0	0		
Total Project					0	0	1,466	1,467	1,489		