

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)							June 2001				
BUDGET ACTIVITY 4 - DEM/VAL				PE NUMBER AND TITLE 0603856A - Single Channel Anti-Jam Manportable (SCAMP)					PROJECT 389		
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
389	SCAMP BLK II	10336	20135	9895	0	0	0	0	0	0	0
<p><u>A. Mission Description and Budget Item Justification:</u> <u>PLEASE NOTE:</u> This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.</p> <p>The Single Channel Anti-Jam Manpackable (SCAMP) Block II Program has been restructured to support the Pathfinder decision to accelerate the Advanced Extremely High Frequency (AEHF) Satellite Program. The restructured SCAMP Block II program consists of two terminals, the SCAMP Manportable System Enhancement Program (SEP) terminal and the SCAMP Manpackable terminal. Each terminal supports the requirements in the Joint AEHF Operational Requirements Document (ORD) and provides worldwide anti-jam, low probability of intercept and detection and assured voice and data communications for the joint warfighter. Both terminals will transmit in the Extremely High Frequency (EHF) band and receive in the Super High Frequency (SHF) band and will operate over MILSTAR, other MIL-STD-1582 compatible payloads, and the future AEHF payload, providing secure voice and data services. The terminals will transmit and receive intelligence, situational awareness, as well as command and control traffic.</p> <p>Under the restructured program, the existing SCAMP Block I terminal will be upgraded to support the AEHF Satellite Program. In support of the Joint AEHF ORD dated 1 Aug 00, the Manportable SEP will provide up to 64 Kbps Uplink (narrowband) and up to 128 Kbps Downlink AEHF capability to units, Division Headquarters and Above, and Special Operations Forces, that require increased data rates for range extended command and control communications.</p> <p>The SCAMP Manpackable terminal supports the Joint ORD requirements for a Manpackable AEHF terminal which is lightweight (12 - 15 lbs) and provides for increased data rates and extended battery life. The Manpackable terminal will support lower echelon battalions anad below, and priority ground tactical users, including Special Operations Forces.</p> <p>This system supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).</p> <p><u>FY 2000 Accomplishments</u></p> <ul style="list-style-type: none">• 380 Restructured the program to support the Pathfinder and AEHF systems• 8438 Continued development/testing of Baseline 1 Manpackable prototype Medium Data Rate (MDR) components for technology migration to AEHF• 1168 Tested and evaluated Baseline 1 Manpackable MDR prototype components• 350 Funded DARPA/US Army Simulation, Training and Instrumentation Command (STRICOM) sponsored efforts for power supply technology <p>Total 10336</p>											

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FY 2001 Planned Program

- 10672 Initiate development of modification kits for AEHF Manportable SEP Terminal
- 458 Procure 6 Government Furnished Equipment Articles for SCAMP SEP development testing
- 6500 Continue development and test of prototype components for the AEHF Manpackable Terminal: RDTE Test Qty - 2
- 1807 Support Joint AEHF Satellite Program, Baseband Working Groups, Technical Interchange Meetings and SEP acquisition documentation
- 100 Army Battle Command System (ABCS) system engineering and integration efforts
- 598 Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR)

Total 20135

FY 2002 Planned Program

- 6622 Continue AEHF Manportable SEP modification kit development
- 2976 Continue development, test and evaluation of prototype components for the AEHF Manpackable Terminal
- 297 Continue support to AEHF Satellite Program and Baseband Working Groups and Technical Interchange Meetings

Total 9895

<u>B. Program Change Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2001 PB)	10622	20277	19867	0
Appropriated Value	10703	20277	0	0
Adjustments to Appropriated Value	0	0	0	0
a. Congressional General Reductions	0	0	0	0
b. SBIR / STTR	-286	0	0	0
c. Omnibus or Other Above Threshold Reduction	0	0	0	0
d. Below Threshold Reprogramming	0	0	0	0
e. Rescissions	-81	-142	0	0
Adjustments to Budget Years Since FY2001 PB	0	0	-9972	0
Current Budget Submit (FY 2002/2003 PB)	10336	20135	9895	0

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Change Summary Explanation:

Funding FY02/03: The funding decrease to Project D389 (FY02 -9,972; FY03 -10,057) are to realign project funding with current estimates and program priorities.

<u>C. Other Program Funding Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
Other Procurement Army 2 - SSN: BC 4110	0	0	0	0	0	0	0	0	0	0

D. Acquisition Strategy: The SCAMP Block II acquisition strategy is based upon an evolutionary development approach which allows for the incremental design, development and test of system requirements.

Manportable SEP Terminal: The SCAMP Manportable SEP acquisition strategy will recapitalize the legacy Block I SCAMP to meet the Manportable AEHF requirement in the Joint AEHF ORD. A development modification to the existing Rockwell Collins contract was awarded on 28 Feb 01 to implement AEHF capability.

Manpackable Terminal: Throughout Engineering Feasibility, Lincoln Labs is designing, developing and testing prototype components for the Manpackable SCAMP. Lincoln Labs design data is also provided to industry through the distribution of CD ROMs. This design information is provided to encourage industry participation in the bidding process for System Development Demonstration (SDD). Following Milestone B, one contractor will be selected to develop and test SDD terminals. Lincoln Labs will continue to work with industry during SDD. Following Operational Testing, Full Rate Production of Manpackable SCAMPs will begin.

<u>E. Schedule Profile</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
MANPORTABLE (SEP) TERMINAL:				0	0	0	0	0
Decision Brief		1Q		0	0	0	0	0
Award Development Contract		2Q	2Q	0	0	0	0	0
Complete System Development/Test/Integration				0	0	0	0	0
Build Prototype Kits - AEHF				0	0	0	0	0

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E. Schedule Profile (continued)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Limited User Test - AEHF				0	0	0	0	0
Complete Retrofit Prototype Kits - AEHF				0	0	0	0	0
Award Production Contract				0	0	0	0	0
Complete Multi-Service Operational Test & Evaluation (MOTE)				0	0	0	0	0
Complete Retrofit Production Kits				0	0	0	0	0
MANPACKABLE TERMINAL:				0	0	0	0	0
Complete MDR Component Development	4Q			0	0	0	0	0
Initiate AEHF Component Development		1Q	1-4Q	0	0	0	0	0
Complete AEHF Prototype				0	0	0	0	0
Milestone B Decision				0	0	0	0	0
Award Development Contract				0	0	0	0	0
Complete Development of Terminals				0	0	0	0	0
Complete IOT&E				0	0	0	0	0
Milestone C - Full Rate Production				0	0	0	0	0
Award Production Contract				0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . System Development	MIPR	Lincoln Labs Lexington, MA	13831	5093	1Q	1703	2Q	0	0	0	0	0
b . Other Contracts	Various	Various	2470	342		150		0	0	0	0	0
c . Govt Eng Support	MIPR	Various	1961	725		501		0	0	0	0	0
d . Major Contract	SS/CPAF	Rockwell Collins, Cedar Rapids, IA	0	9892	2Q	5196	2Q	0	0	0	0	0
e . GFE	MIPR	PM MILSATCOM	0	458	2Q	0		0	0	0	0	0
f . ABCS SE&I	PWD	TRW Carson, CA	0	100	2Q	0		0	0	0	0	0
Subtotal:			18262	16610		7550		0		0	0	0

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II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Labs/OGAs	MIPR	Various	396	17		0		0	0	0	0	0
b . Support Contracts	Various	Various	1906	338		280		0	0	0	0	0
Subtotal:			2302	355		280		0		0	0	0
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Test Demonstration	MIPR	Lincoln Labs Lexington, MA	1525	0		0		0	0	0	0	0
b . DT&E	Various	Various	397	0		0		0	0	0	0	0
c . Major Contracts	SS/CPAF	Rockwell Collins Cedar Rapids, IA	0	0		0		0	0	0	0	0
d . LL DT&E	MIPR	Lincoln Labs Lexington, MA	964	763	1Q	1037	2Q	0	0	0	0	0
Subtotal:			2886	763		1037		0		0	0	0

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IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Govt Program Support	MIPR	Various	1733	1660		858		0	0	0	0	0
b . Support Contracts	Various	Various	872	149		170		0	0	0	0	0
c . SBIR/STTR			0	598		0		0	0	0	0	0
Subtotal:			2605	2407		1028		0		0	0	0
Project Total Cost:			26055	20135		9895		0		0	0	0