

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)								February 2003		
BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes				PE NUMBER AND TITLE 0603856A - SCAMP Block II				PROJECT 389		
COST (In Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
389 SCAMP BLK II	6657	14352	28028	15107	26985	37316	12755	0	0	160693
<p><u>A. Mission Description and Budget Item Justification:</u> The Single Channel Anti-Jam Manpackable (SCAMP) Block II Program has been restructured to support 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 SCAMP Manportable SEP terminal upgrades existing SCAMP Block I terminals to support the AEHF Satellite Program. In support of the Joint AEHF ORD dated 2 Oct 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. This system supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).</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 and below, and priority ground tactical users, including Special Operations Forces. This program is designated as a DoD Space Program. This system supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).</p>										
<u>Accomplishments/Planned Program</u>						<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	
AEHF SCAMP SEP modification kit development						5316	12708	18552	10014	
Develop and integrate SCAMP SEP additional test resources and conduct Development Test/Limited User Test						0	0	4242	2847	
Developed and tested prototype components for the AEHF SCAMP Manpackable Terminal						1117	0	0	0	
Development and test of 2 AEHF SCAMP Manpackable prototypes, conduct MS B decision, prepare technology transfer data						0	600	3803	1129	
Support to AEHF Satellite Program, Baseband Working Groups and Technical Interchange Meetings						224	1044	1431	1117	
Totals						6657	14352	28028	15107	

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<u>B. Program Change Summary</u>	FY 2002	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2003)	6895	21006	28028	15366
Current Budget (FY 2004/2005 PB)	6657	14352	28028	15107
Total Adjustments	-238	-6654	0	-259
Congressional program reductions		-6000		
Congressional rescissions		-165		
Congressional increases				
Reprogrammings	-48	-82		
SBIR/STTR Transfer	-190	-407		
Adjustments to Budget Years				-259

FY03 reflects Congressional reduction of \$6.0M

<u>C. Other Program Funding Summary</u>	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
BC4110 - SCAMP BLK II	0	0	0	12775	17037	6704	30325	16148	0	82989

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<p><u>D. Acquisition Strategy:</u> 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.</p> <p>Manportable SEP Terminal: The SCAMP Manportable SEP acquisition strategy will upgrade 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.</p> <p>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 technical information. 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.</p>		

ARMY RDT&E COST ANALYSIS(R-3)									February 2003			
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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . System Development	MIPR	Lincoln Labs - Lexington, MA	20144	1114	2Q	2460	2Q	1949	2Q	Continue	Continue	Continue
b . Other Contracts	Various	Various	3048	0		150	2Q	0		0	3198	0
c . Govt Eng Support	MIPR	Various	2789	828	2Q	1738	2Q	1078	2Q	Continue	Continue	Continue
d . Major Contract	SS/CPIF	Rockwell Collins - Cedar Rapids, IA	14118	10263	2Q	17452	2Q	7188	2Q	Continue	Continue	Continue
e . GFE	MIPR	Various	458	0		0		0		0	458	0
f . ABCS SE&I	PWD	TRW - Carson, CA	100	0		0		0		0	100	0
Subtotal:			40657	12205		21800		10215		Continue	Continue	Continue

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II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Labs/OGAs	MIPR	Various	413	0		0		0		0	413	0
b . Support Contracts	Various	Various	2244	394	2Q	457	2Q	440	2Q	Continue	Continue	Continue
c . Government Support	Various	Various	0	0		230	2Q	275	2Q	0	505	0
Subtotal:			2657	394		687		715		Continue	Continue	Continue
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Test Demonstration	MIPR	Lincoln Labs Lexington, MA	1525	0		0		0		0	1525	0
b . DT&E	Various	Various	397	74	2Q	532	2Q	1905	2Q	Continue	Continue	Continue
c . Major Contracts	SS/CPIF	Rockwell Collins Cedar Rapids, IA	0	490	2Q	2095	2Q	159	2Q	Continue	Continue	Continue
d . LL DT&E	MIPR	Lincoln Labs Lexington, MA	2056	0	2Q	643	2Q	412		0	3111	0

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III. Test and Evaluation (continued)	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			3978	564		3270		2476		Continue	Continue	Continue
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Govt Program Support	MIPR	Various	3892	830	2Q	1592	2Q	1221	2Q	Continue	Continue	Continue
b . Support Contracts	Various	Various	1021	359	2Q	679	2Q	480	2Q	Continue	Continue	Continue
Subtotal:			4913	1189		2271		1701		Continue	Continue	Continue
Project Total Cost:			52205	14352		28028		15107		Continue	Continue	Continue

Schedule Profile Detail (R-4a Exhibit)							February 2003	
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<u>Schedule Detail</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>FY 2008</u>	<u>FY 2009</u>
MANPORTABLE (SEP) TERMINAL:								
Continue System Development/Test/Integration	1-4Q	1-4Q	1-4Q	1Q				
Complete System Development/Test/Integration				2Q				
Build Prototype Kits - AEHF				2-4Q				
Limited User Test - AEHF - LDR Mode				3Q				
Complete Retrofit Prototype Kits - AEHF					2Q			
Award Production Contract				3Q				
Build/Install Retrofit Kits from Production Contract					3-4Q	1-4Q	1Q	
Conduct MOT&E							3Q	
MANPACKABLE TERMINAL:								
Complete AEHF Prototype Development				3Q				
Milestone B Decision					1Q			
Award Development Contract					2Q			
Continue Manpackable Development					2-4Q	1-4Q	1-4Q	
Conduct IOT&E							4Q	
Milestone C Decision								2Q
Award Production Contract								2Q