

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)								DATE February 1999		
BUDGET ACTIVITY 4 - Demonstration and Validation				PE NUMBER AND TITLE 0603856A SCAMP Block II (Space)				PROJECT D389		
<i>COST (In Thousands)</i>	FY1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
D389 SCAMP Block II	569	7683	10703	20402	20022	31382	6878	7848	Continuing	Continuing
<p>A. <u>Mission Description and Budget Item Justification:</u> Project D389 - SCAMP Block II: The Single Channel Anti-Jam Manportable (SCAMP) Block II Terminal will be a manpackable, satellite communications terminal to be employed by units that require range extension for command and control communications. Block II will be used by priority ground tactical users to transmit and receive intelligence, situational awareness, and command and control traffic. It will transmit in the Extremely High Frequency (EHF) band and receive in the Super High Frequency (SHF) band. SCAMP Block II will operate over MILSTAR, other MIL-STD-1582 compatible payloads, and the future Advanced EHF payload providing secure voice and data services at data rates up to 64Kbps. SCAMP Block II EHF terminal will provide direct support to the tactical warfighter mobile forces with anti-jam protection, low probability of intercept, and low probability of detection. Engineering Feasibility Efforts (EFE) began in FY 1996. The FY00/01 activities will continue the current prototype development with the primary focus toward completion of the Technology Transfer (TT) medium (CD ROM) and preparation of the TT Statement of Work (SOW) which will require each partnering contractor to assume design responsibility of the Lincoln Lab architecture. These efforts will provide confidence in technical approach and lead to procurement of ten Baseline 2 terminals.</p> <p>FY 1998 Accomplishments:</p> <ul style="list-style-type: none"> • 569 Continued prototype development <p>Total 569</p> <p>FY 1999 Planned Program:</p> <ul style="list-style-type: none"> • 4807 Complete Baseline 0 prototype development • 1070 Test, evaluate and demonstrate Baseline 0 prototype: RDTE Test Quantity: 2 • 1602 Commence Baseline 1 prototype development • 204 Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs <p>Total 7683</p> <p>FY 2000 Planned Program:</p> <ul style="list-style-type: none"> • 7984 Complete Baseline 1 prototype terminals: RDTE Test Quantity: 4 • 1816 Test, evaluate and demonstrate four Baseline 1 terminals • 903 RFP/SSEB preparation and documentation for Baseline 2 terminals. <p>Total 10703</p>										
Project D389			<i>Page 1 of 5 Pages</i>			Exhibit R-2 (PE 0603856A)				

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)	DATE February 1999
---	------------------------------

BUDGET ACTIVITY 4 - Demonstration and Validation	PE NUMBER AND TITLE 0603856A SCAMP Block II (Space)	PROJECT D389
---	--	-------------------------------

FY 2001 Planned Program:

- 8020 Complete Baseline 1 terminal improvements and conduct MS II decision
 - 8369 Lincoln Labs and industry partnering to develop, test and demonstrate ten Baseline 2 terminals. RDTE Test Quantity: 10
 - 4013 Baseline 2 improvements and Development Test/Early Operational Assessment preparation.
- Total 20402

<u>B. Program Change Summary</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Previous President's Budget (FY 1999 PB)	71	7969	16568	35084
Appropriated Value	73	7969		
Adjustments to Appropriated Value				
a. Congressional General Reductions	-2	-286		
b. SBIR / STTR	-2			
c. Omnibus or Other Above Threshold Reduction	-1			
d. Below Threshold Reprogramming	+501			
e. Rescissions				
Adjustments to Budget Years Since FY 1999 PB			-5865	-14682
Current Budget Submit (FY 2000/2001 PB)	569	7683	10703	20402

Change Summary Explanation:

In FY98, funds reprogrammed to allow continuation of ongoing Engineering Feasibility Efforts (EFE) (+501)
 In FY00/01, funds were realigned IAW Spiral Development Acquisition Strategy to align SCP II program with AEHF satellite launch schedule.

<u>C. Other Program Funding Summary</u>	<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</u>	<u>Total</u>
									<u>Compl</u>	<u>Cost</u>
Other Procurement Army 2 - SSN: BC 4110	0	0	0	0	0	0	46831	45227	Cont	Cont

D. Acquisition Strategy: SCAMP Block II will be a manpackable terminal in the 12-15 lb. range. Acquisition strategy consists of a spiral development program with four spiral phases. The spiral development phase occurring in FY 2000 will result in the development, test and demonstration of four Baseline 1 MDR (receive) Terminals. Following the Milestone II decision and partnering with industry contract award in FY 2001, ten Baseline 2 terminals will be produced which will validate the contractor's ability to achieve the design resulting from the Lincoln Labs partnering.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)	DATE February 1999
---	------------------------------

BUDGET ACTIVITY 4 - Demonstration and Validation	PE NUMBER AND TITLE 0603856A SCAMP Block II (Space)	PROJECT D389
--	---	------------------------

E. Schedule Profile	<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>
Complete Baseline 0 prototype		2Q						
Test, evaluation and demonstrate prototype		4Q						
Complete Baseline 1 prototypes			3Q					
DT&E Baseline 1 prototypes			4Q					
Milestone II decision				1Q				
EMD partnering contract award				2Q				
Developmental testing					1-4Q			
IOTE						1-4Q		
Milestone III decision							1Q	
FRP award							2Q	

UNCLASSIFIED

ARMY RDT&E COST ANALYSIS (R-3)										DATE February 1999		
BUDGET ACTIVITY 4 - Demonstration and Validation				PE NUMBER AND TITLE 0603856A SCAMP Block II (Space)						PROJECT D389		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. System Development	MIPR	Lincoln Labs Lexington, MA	3383	4730	Feb 99	5414	Feb 00	8822	Feb 01	Cont	22349	
b. Other Contracts	Various	Various	1856	303						Cont	2159	
c. Govt Eng Support	MIPR	Various	416	527		678		797		Cont	2418	
d. Major Contract	C - CPAF	TBS						6301	Jan 01	Cont	6301	
Subtotal Product Development:			5655	5560		6092		15920			33227	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Labs/OGAs	MIPR	Various	61	110		684		857		Cont	1712	
b. Support Contracts	Various	Various	1065	186		252		358		Cont	1861	
c. SSEB	MIPR	Various				644					644	
Subtotal Support Costs:			1126	296		1580		1215			4217	
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Test Demonstration	MIPR	Lincoln Labs Lexington, MA	1125	200		366					1691	
b. DT&E	Various	Various		270		350		1117		Cont	1737	
c. Major Contracts								368		Cont	368	
d. LL DT&E				600		1100		525		Cont	2225	
Subtotal Test and Evaluation:			1125	1070		1816		2010			6021	

UNCLASSIFIED

ARMY RDT&E COST ANALYSIS (R-3)										DATE February 1999		
BUDGET ACTIVITY 4 - Demonstration and Validation				PE NUMBER AND TITLE 0603856A SCAMP Block II (Space)						PROJECT D389		
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Govt Program Support	MIPR	Various	364	273		688		721		Cont	2046	
b. Support Contracts	Various	Various		280		527		536		Cont	1343	
c. SBIR/STTR				204							204	
Subtotal Management Services:			364	757		1215		1257			3593	
Project Total Cost:			8270	7683		10703		20402			47058	

THIS PAGE INTENTIONALLY LEFT BLANK