

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

February 2003

BUDGET ACTIVITY

05 - System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0305176F Combat Survivor Evader Locator

PROJECT

4522

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
4522 CSAR EMD	13,815	14,062	14,684	0	0	0	0	0	0	114,761
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

In FY 2004 Project 4522, CSAR EMD, will be completed.

(U) **A. Mission Description**

The Combat Survivor Evader Locator (CSEL) joint program, with the Air Force as lead service, will provide enhanced Combat Search and Rescue (CSAR) communications and location capabilities by replacing antiquated PRC-90 and -112 survivor radios with a new end-to-end system. The CSEL system will be used by all the services and, potentially, non-DoD government agencies. CSEL features include a new hand-held radio that incorporates secure two-way over-the-horizon messaging, line-of-sight voice, near-real-time geopositioning, verification of evader identity and condition, and low probability of intercept/low probability of detection communications. The system is now being developed in an evolutionary fashion per the updated Operational Requirements Document approved in February 2000. Block 1 will meet threshold requirements for Initial Operational Capability and Block 2 will add technical interoperability enhancements.

(U) **FY 2002 (\$ in Thousands)**

(U) \$0 Accomplishments/Planned Program
 (U) \$9,262 CSEL Engineering and Manufacturing Development
 (U) \$1,893 Government Test and Operational Assessment
 (U) \$2,660 Other Government Support
 (U) \$13,815 Total

(U) **FY 2003 (\$ in Thousands)**

(U) \$0 Accomplishments/Planned Program
 (U) \$12,333 CSEL Engineering and Manufacturing Development
 (U) \$888 Government Test and Operational Assessment
 (U) \$841 Other Government Support
 (U) \$14,062 Total

Project 4522

Page 1 of 5 Pages

Exhibit R-2 (PE 0305176F)

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(U) **A. Mission Description Continued**(U) FY 2004 (\$ in Thousands)

(U)	\$0	Accomplishments/Planned Program
(U)	\$11,960	CSEL Engineering and Manufacturing Development
(U)	\$2,099	Government Test and Operational Assessment
(U)	\$625	Other Government Support
(U)	\$14,684	Total

(U) **B. Budget Activity Justification**

This program is in Budget Activity 5, System Development and Demonstration, because it is in the development and demonstration phase and has not received full-rate production approval.

(U) **C. Program Change Summary (\$ in Thousands)**

	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Total Cost</u>
(U) Previous President's Budget	11,344	14,274	15,009	115,298
(U) Appropriated Value	11,486	14,274		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions	-209	-151		
b. Small Business Innovative Research				
c. Omnibus or Other Above Threshold Reprogram		-61		
d. Below Threshold Reprogram	2,538			
e. Rescissions				
(U) Adjustments to Budget Years Since FY 2003 PBR			-325	
(U) Current Budget Submit/FY 2004 PBR	13,815	14,062	14,684	114,761

(U) **Significant Program Changes:**

FY 2002: Below Threshold Reprogram to continue Block 2 development

Project 4522

Page 2 of 5 Pages

Exhibit R-2 (PE 0305176F)

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PROJECT

05 - System Development and Demonstration (SDD)**0305176F Combat Survivor Evader Locator****4522****(U) D. Other Program Funding Summary (\$ in Thousands)**

	<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>	<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) PE 35176F, Other	0	5,990	8,839	16,709	27,403	30,920	31,481	32,005	78,068	257,127
Procurement, Air Force -										
WSC 837170 (Budget										
Activity 3)										

Note: Army and Navy procurement is funded separately by those Services.

(U) E. Acquisition Strategy

All major contracts within this Program Element were awarded after full and open competition.

(U) F. Schedule Profile

	<u>FY 2002</u>				<u>FY 2003</u>				<u>FY 2004</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Low Rate Initial Production (LRIP) Lot 2 Award			*									
(U) LRIP Lot 1 First Unit Delivery		*										
(U) Government Developmental Testing		*	*	*		X	X					
(U) Multi-Service Operational Test & Evaluation (Block 1 system)							X					
(U) LRIP Lot 2 First Unit Delivery						X						
(U) LRIP Lot 3 Award						X						
(U) Full Rate Production Decision										X		
(U) LRIP Lot 3 First Unit Delivery										X		
(U) Full Rate Production Award										X		
(U) Government Developmental Testing (Block 2 system)												X
(U) Follow-on Operational Test & Evaluation (Block 2 system)												X

* = completed event

X = planned event

Project 4522

Page 3 of 5 Pages

Exhibit R-2 (PE 0305176F)

UNCLASSIFIED

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE February 2003		
BUDGET ACTIVITY					PE NUMBER AND TITLE				PROJECT	
05 - System Development and Demonstration (SDD)					0305176F Combat Survivor Evader Locator				4522	
(U) <u>A. Project Cost Breakdown (\$ in Thousands)</u>										
							FY 2002	FY 2003		FY 2004
(U)	CSEL Engineering and Manufacturing Development						9,262	12,333		11,960
(U)	Government Test and Operational Assessment						1,893	888		2,099
(U)	Other Government Support						2,660	841		625
(U)	Total						13,815	14,062		14,684
(U) <u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u>										
(U) <u>Performing Organizations:</u>										
<u>Contractor or</u>	<u>Contract</u>									
<u>Government</u>	<u>Method/Type</u>	<u>Award or</u>	<u>Performing</u>	<u>Project</u>						
<u>Performing</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Activity</u>	<u>Office</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2002</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Organizations</u>										
Boeing	CPAF	23 Feb 96	88,566	88,566	55,011	9,262	12,333	11,960	0	88,566
SMC (COBRA)	Multiple	Multiple	4,000	4,000	4,000	0	0	0	0	4,000
<u>Support and Management Organizations</u>										
SPAWAR	MIPR	Multiple	N/A	N/A	2,395	613	0	0	0	3,008
PRC/ARINC/BD Systems	CPAF	Multiple	N/A	N/A	2,355	648	0	0	0	3,003
FFRDC (MITRE/Aerospace)	CPAF	Multiple	N/A	N/A	4,228	755	705	595	0	6,283
MANTECH	CPAF	Multiple	N/A	N/A	600	0	0	0	0	600
SMC	CPAF	Multiple	N/A	N/A	575	202	0	0	0	777
JPRA	MIPR	Dec 02	N/A	N/A	0	200	0	0	0	200
Miscellaneous	Multiple	Multiple	N/A	N/A	529	242	136	30	0	937
<u>Test and Evaluation Organizations</u>										
AFOTEC	CPAF	Multiple	N/A	N/A	290	0	0	0	0	290
746TS	CPAF	Multiple	N/A	N/A	1,308	0	0	0	0	1,308
Joint Spectrum Center	CPAF	Multiple	N/A	N/A	312	100	100	100	0	612
ESC (TBMCS SPO)	CPAF	Multiple	N/A	N/A	0	500	0	500	0	1,000
EPG	MIPR	Multiple	N/A	N/A	280	600	500	500	0	1,880
Project 4522					Page 4 of 5 Pages			Exhibit R-3 (PE 0305176F)		

UNCLASSIFIED

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										February 2003
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT
05 - System Development and Demonstration (SDD)					0305176F Combat Survivor Evader Locator					4522
(U) <u>Performing Organizations Continued:</u>										
<u>Test and Evaluation Organizations</u>										
JITC	MIPR	Multiple	N/A	N/A	317	386	237	185	0	1,125
DISA	MIPR	Multiple	N/A	N/A	0	0	0	0	0	0
CECOM	MIPR	Nov 02	N/A	N/A	0	0	0	0	0	0
SPAWAR	MIPR	Aug 02	N/A	N/A	0	77	51	64	0	192
Army Research Labs	MIPR	Jul 02	N/A	N/A	0	30	0	0	0	30
GCCS-A (Integration Support)	MIPR	Multiple	N/A	N/A	0	0	0	250	0	250
GCCS-M	MIPR	Multiple	N/A	N/A	0	200	0	250	0	450
PRMS	MIPR	Multiple	N/A	N/A	0	0	0	250	0	250
					<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Subtotals</u>					<u>to FY 2002</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development					59,011	9,262	12,333	11,960	0	92,566
Subtotal Support and Management					10,682	2,660	841	625	0	14,808
Subtotal Test and Evaluation					2,507	1,893	888	2,099	0	7,387
Total Project					72,200	13,815	14,062	14,684	0	114,761

Project 4522

Page 5 of 5 Pages

Exhibit R-3 (PE 0305176F)