PE NUMBER: 0305176F

PE TITLE: Combat Survivor Evader Locator

	Exhib	DATE	February	2006						
	TACTIVITY stem Development and Demonstrat		PE NUMBER AND TITLE 0305176F Combat Survivor Evader Locator							
	Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
	Total Program Element (PE) Cost	0.000	17.250	0.000	0.000	0.000	0.000	0.000	0.000	130.341
4522	CSAR EMD	0.000	17.250	0.000	0.000	0.000	0.000	0.000	0.000	130.341

FY06 Funding is congressionally directed new start.

(U) A. Mission Description and Budget Item Justification

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. Components of the system include a hand-held radio (HHR), radio loading equipment, four Ultra-High Frequency Base Stations (UBS), and workstations installed in rescue coordination centers. 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 Operational Requirements Document approved in February 2000. Block 1 meets threshold requirements. Congressional reprogramming in FY06 for the development of Terminal Area Communication and Terminal Area Guidance (TAC/TAG).

This program is in Budget Activity 5, System Development and Demonstration, because it funds the development of TAC/TAG.

(U) B. Program Change Summary (\$ in Millions)

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	0.000	0.000	0.000
(U) Current PBR/President's Budget	0.000	17.250	0.000
(U) Total Adjustments	0.000	17.250	
(U) Congressional Program Reductions			
Congressional Rescissions		-0.250	
Congressional Increases		17.500	
Reprogrammings			

SBIR/STTR Transfer (U) Significant Program Changes:

FY06 funding congressionally directed new start for TAC/TAG

R-1 Shopping List - Item No. 102-2 of 102-7

	Exhibit R-2a, RDT&E Project Justification February 2006													
05 System Development and Demonstration (SDD)				PE NUMBER AND 0305176F Con Locator			PROJECT NUM 4522 CSAR I	NUMBER AND TITLE SAR EMD						
	Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total				
4522	CSAR EMD	0.000	17.250	0.000	0.000	0.000	0.000	0.000	0.000	130.341				
	Quantity of RDT&E Articles	0	0	C	0	0	0	0						

(U) A. Mission Description and Budget Item Justification

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. Components of the system include a hand-held radio (HHR), radio loading equipment, four Ultra-High Frequency Base Stations (UBS), and workstations installed in rescue coordination centers. 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 Operational Requirements Document approved in February 2000. Block 1 meets threshold requirements. Congressional reprogramming in FY06 for the development of Terminal Area Communication and Terminal Area Guidance (TAC/TAG).

This program is in Budget Activity 5, System Development and Demonstration, because it funds the development of TAC/TAG.

ı	(U)	B. Accomplishments/Planned Program (\$ in Millions)	FY 2005	FY 2006	FY 2007
ı	(U)	CSEL Engineering and Manufacturing Development		14.557	
ı	(U)	Government Test and Operational Assessment		1.948	
ı	(U)	Other Government Support		0.745	
ı	(U)	Total Cost	0.000	17.250	0.000

(U) <u>C. Other Program Funding Summary (\$ in Millions)</u>

	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
(U) PE 35176F, Other Procurement, Air Force - WSC 837170 (Budget Activity 3)	13.871	7.109	27.225	27.018	27.244	27.894	28.324	0.000	158.685

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

(U) **D. Acquisition Strategy**

The Full Rate Production (FRP) contract is a Sole Source award to Boeing; however, all previous major contracts within this Program Element were awarded after full and open competition.

Project 4522 R-1 Shopping List - Item No. 102-3 of 102-7

Exhibit R-2a (PE 0305176F)

Exhibit R-3, RDT&E Project Cost Analysis										D/	DATE February 2006			
	BUDGET ACTIVITY PE NUMBER AND TITLE PROJECT 0305176F Combat Survivor Evader Locator PROJECT 4522 CS											O TITLE		
(U)	Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2005 Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
(U)	Product Development Boeing SMC (COBRA) Subtotal Product Development Remarks:	CPAF Multiple	Anaheim, CA Multiple	87.623 4.000 91.623	0.000		14.557 14.557	Mar-06	0.000		0.000 0.000 0.000	102.180 4.000 106.180	0.000	
(U)	Support SPAWAR PRC/ARINC/BD Systems FFRDC (MITRE/Aerospace) MANTECH	MIPR CPAF CPAF CPAF	San Diego, CA Multiple Multiple Alliant Tech Systems	3.289 3.003 6.488 0.600			0.150 0.295	Mar-06 Mar-06			0.000 0.000 0.000	3.289 3.153 6.783		
	SMC JPRA Miscellaneous Subtotal Support	CPAF MIPR Multiple	Hopkins, MN Los Angeles, CA Ft. Belvoir, VA various	0.777 0.200 0.801 15.158	0.000		0.300 0.745	Apr-06	0.000		0.000 0.000 0.000 0.000	0.777 0.200 1.101 15.903	0.000	
(U)	Remarks: Test & Evaluation AFOTEC	MIPR	Kirtland AFB, NM	0.357							0.000	0.357		
	746TS 18FTS	MIPR	Kitrland AFB, NM	1.308 0.000			1.346	Jun-06			0.000	1.308 1.346		
	SMC Test Support	CPAF	Los Angeles AFB, CA	0.000			0.452	Mar-06				0.452		
	Joint Spectrum Center ESC (TBMCS SPO)	CPAF CPAF	IIT Research Institute Chicago, IL Lockheed	0.514							0.000	0.514		
	ESC (IBMC2 SPO)	CPAF	Martin Colorado Springs, CO	0.500							0.000	0.500		
	EPG	MIPR	Ft. Huachuca, AZ	2.284							0.000	2.284		
	JITC DISA CECOM SPAWAR	MIPR MIPR MIPR MIPR	Multiple San Diego, CA	1.040 0.000 0.000 0.077			0.150	Mar-06			0.000 0.000 0.000 0.000	1.190 0.000 0.000 0.077		
Pr	oject 4522		R-	1 Shopping Lis	t - Item No.	102-4 of 10	2-7				Exh	ibit R-3 (PE	0305176F)	

	DATE February 2006									
			_	0305176F Combat Survivor Evader 4522			DJECT NUMBER AND TITLE 22 CSAR EMD			
Army Research Labs	MIPR	White Sands, NM	0.030					0.000	0.030	
GCCS-A (Integration Support)	MIPR		0.000					0.000	0.000	
GCCS-M	MIPR	SPAWAR San Diego, CA	0.200					0.000	0.200	
PRMS	MIPR							0.000	0.000	
Subtotal Test & Evaluation Remarks:			6.310	0.000	1.948	0.000		0.000	8.258	0.000
(U) Management									0.000	
Subtotal Management Remarks:			0.000	0.000	0.000	0.000		0.000	0.000	0.000
(U) Total Cost			113.091	0.000	17.250	0.000		0.000	130.341	0.000

 Project 4522
 R-1 Shopping List - Item No. 102-5 of 102-7
 Exhibit R-3 (PE 0305176F)

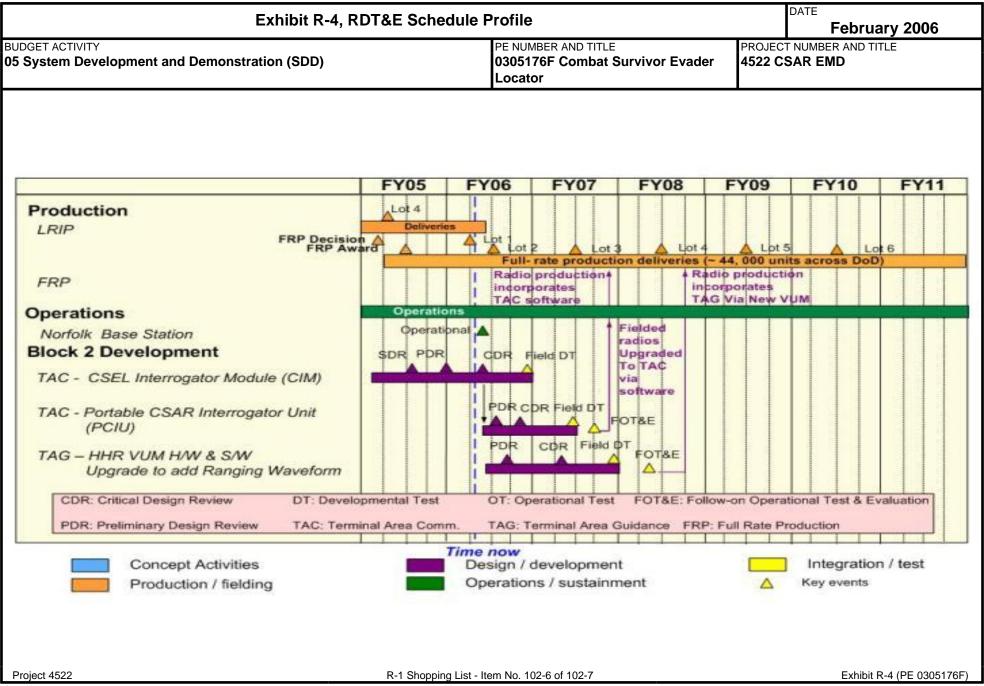


Exhibit R-4a, F	RDT&E Schedule Detail	DATE Febr ua	ary 2006
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0305176F Combat Survivor Evader Locator	PROJECT NUMBER AND TI 4522 CSAR EMD	
(U) Schedule Profile (U) Full Rate Production Decision (U) Full Rate Production Award (U) LRIP Lot 4 Delivery Completion (U) TAC CSEL Interrogator Module PDR (U) TAC Portable CSAR Interrogator Unit PDR (U) TAC Portable CSAR Interrogator Unit CDR (U) TAG VHF/UHF Module hardware and Software PDR (U) TAG VHF/UHF Module hardware and Software CDR (U) TAC FOT&E	FY 2005 1Q 2Q 4Q	FY 2006 1Q 2Q 3Q 4Q 3Q	FY 2007 2Q 4Q
Project 4522	R-1 Shopping List - Item No. 102-7 of 102-7	Exhibit R	-4a (PE 0305176F)