

UNCLASSIFIED

PE NUMBER: 0305176F
 PE TITLE: Combat Survivor Evader Locator

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2004
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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0305176F Combat Survivor Evader Locator
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Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	13.214	14.517	0.000	0.000	0.000	0.000	0.000	0.000	113.746
4522 CSAR EMD	13.214	14.517	0.000	0.000	0.000	0.000	0.000	0.000	113.746

(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. 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.

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 (FRP) approval.

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

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Previous President's Budget	14.062	14.684	0.000
(U) Current PBR/President's Budget	13.214	14.517	
(U) Total Adjustments	-0.848	-0.167	
(U) Congressional Program Reductions		-0.167	
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer	-0.848		

(U) **Significant Program Changes:**

Development of Block 2 is not complete. However, no funding has been requested in the FY05 PB.

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)				PE NUMBER AND TITLE 0305176F Combat Survivor Evader Locator			PROJECT NUMBER AND TITLE 4522 CSAR EMD			
Cost (\$ in Millions)		FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
4522	CSAR EMD	13.214	14.517	0.000	0.000	0.000	0.000	0.000	0.000	113.746
	Quantity of RDT&E Articles	0	0	0	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. 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.

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 (FRP) approval.

(U) B. Accomplishments/Planned Program (\$ in Millions)

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) CSEL Engineering and Manufacturing Development	11.522	12.345	
(U) Government Test and Operational Assessment	0.906	1.142	
(U) Other Government Support	0.786	1.030	
(U) Total Cost	13.214	14.517	0.000

(U) C. Other Program Funding Summary (\$ in Millions)

	<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>Complete</u>	
PE 35176F, Other Procurement,									
(U) Air Force - WSC 837170	5.941	7.383	13.936	24.563	26.881	26.641	26.807	79.520	211.672

(Budget Activity 3)

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

(U) D. Acquisition Strategy

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

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Exhibit R-3, RDT&E Project Cost Analysis										DATE February 2004		
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)				PE NUMBER AND TITLE 0305176F Combat Survivor Evader Locator				PROJECT NUMBER AND TITLE 4522 CSAR EMD				
<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total</u> <u>Prior to FY</u> <u>2003</u> <u>Cost</u>	<u>FY</u> <u>2003</u> <u>Cost</u>	<u>FY</u> <u>2003</u> <u>Award</u> <u>Date</u>	<u>FY</u> <u>2004</u> <u>Cost</u>	<u>FY</u> <u>2004</u> <u>Award</u> <u>Date</u>	<u>FY</u> <u>2005</u> <u>Cost</u>	<u>FY</u> <u>2005</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total</u> <u>Cost</u>	<u>Target</u> <u>Value of</u> <u>Contract</u>
<u>(U) Product Development</u>												
Boeing	CPAF	Anaheim, CA	64.273	11.522	Apr-03	12.345	Jan-04			0.000	88.140	
SMC (COBRA)	Multiple	Multiple	4.000							0.000	4.000	
Subtotal Product Development			68.273	11.522		12.345		0.000		0.000	92.140	0.000
Remarks:												
<u>(U) Support</u>												
SPAWAR	MIPR	San Diego, CA	3.008	0.051	Jan-03	0.230	Dec-03			0.000	3.289	
PRC/ARINC/BD Systems	CPAF	Multiple	3.003							0.000	3.003	
FFRDC (MITRE/Aerospace)	CPAF	Multiple	4.983	0.705	Nov-02	0.800	Jan-04			0.000	6.488	
MANTECH	CPAF	Alliant Tech Systems Hopkins, MN	0.600							0.000	0.600	
SMC	CPAF	Los Angeles, CA	0.777							0.000	0.777	
JPRA	MIPR	Ft. Belvoir, VA	0.200							0.000	0.200	
Miscellaneous	Multiple	various	0.771	0.030	Sep-03					0.000	0.801	
Subtotal Support			13.342	0.786		1.030		0.000		0.000	15.158	0.000
Remarks:												
<u>(U) Test & Evaluation</u>												
AFOTEC	MIPR	Kirtland AFB, NM	0.290	0.067	May-03					0.000	0.357	
746TS	MIPR	Kitrland AFB, NM	1.308							0.000	1.308	
Joint Spectrum Center	CPAF	IIT Research Institute Chicago, IL	0.412	0.102	Dec-02					0.000	0.514	
ESC (TBMCS SPO)	CPAF	Lockheed Martin Colorado Springs, CO	0.500			0.500	Mar-04			0.000	1.000	
EPG	MIPR	Ft. Huachuca, AZ	0.880	0.500	Nov-02	0.500	Nov-03			0.000	1.880	
JITC	MIPR	Multiple	0.703	0.237	Nov-02	0.142	Nov-03			0.000	1.082	
DISA	MIPR		0.000							0.000	0.000	
CECOM	MIPR		0.000							0.000	0.000	
SPAWAR	MIPR	San Diego, CA	0.077							0.000	0.077	
Army Research Labs	MIPR	White Sands, NM	0.030							0.000	0.030	

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05 System Development and Demonstration (SDD)				0305176F Combat Survivor Evader Locator			4522 CSAR EMD			
GCCS-A (Integration Support)	MIPR			0.000				0.000	0.000	
GCCS-M	MIPR	SPAWAR		0.200				0.000	0.200	
		San Diego, CA								
PRMS	MIPR			0.000				0.000	0.000	
Subtotal Test & Evaluation				4.400	0.906	1.142	0.000	0.000	6.448	0.000
Remarks:										
(U) <u>Management</u>									0.000	
Subtotal Management				0.000	0.000	0.000	0.000	0.000	0.000	0.000
Remarks:										
(U) Total Cost				86.015	13.214	14.517	0.000	0.000	113.746	0.000

Exhibit R-4, RDT&E Schedule Profile

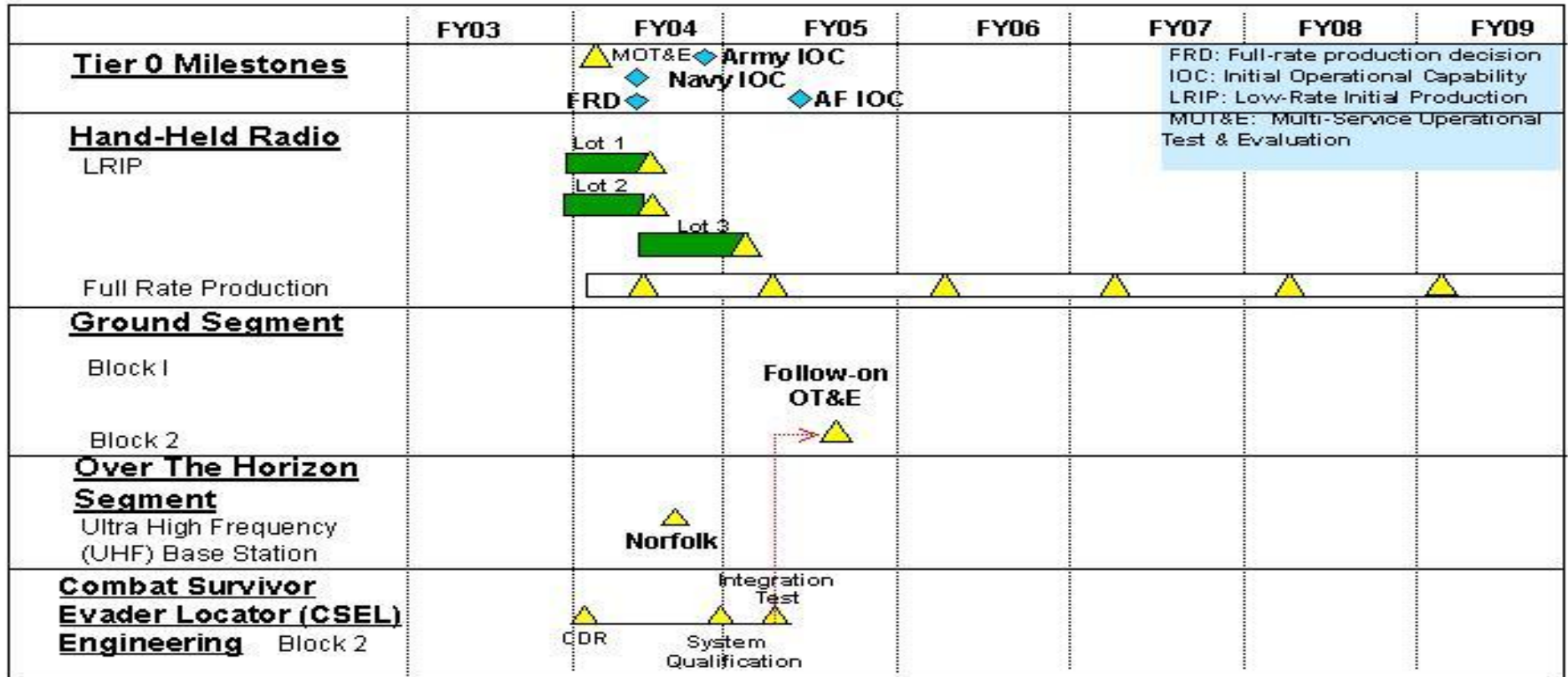
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BUDGET ACTIVITY
05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE
0305176F Combat Survivor Evader
Locator

PROJECT NUMBER AND TITLE
4522 CSAR EMD



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Exhibit R-4a, RDT&E Schedule Detail	DATE February 2004
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(U) <u>Schedule Profile</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Multi-Service Operational Test & Evaluation (Block 1 system)	3-4Q	1Q	
(U) LRIP Lot 2 First Unit Delivery	2Q		
(U) LRIP Lot 3 Award	3Q		
(U) Full Rate Production Decision		2Q	
(U) LRIP Lot 3 First Unit Delivery		4Q	
(U) Full Rate Production Award		3Q	
(U) Government Developmental Testing (Block 2 system)		4Q	1Q
(U) Follow-on Operational Test & Evaluation (Block 2 system)			2-3Q