

**UNCLASSIFIED**

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE June 2001		
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0305176F Combat Survivor Evader Locator					PROJECT 4522	
COST (\$ in Thousands)		FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
4522	CSAR EMD	12,863	10,742	11,486	1,409	0	0	0	0	0	83,372
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0
<p>This administration has not addressed FY2003-2007 requirements. All FY2003-2007 budget estimates included in this book are notional and subject to change.</p> <p>(U) <b><u>A. Mission Description</u></b>                      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 current and emerging technologies in a new end-to-end system. The CSEL system will be used by all the services and DoD, and, potentially, non-DoD government agencies. CSEL system 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, low probability of intercept/low probability of detection, and, potentially, integration of commercial satellite system capabilities. The system is now being developed in an evolutionary fashion per the updated Operational Requirements Document approved in Feb 00: Block 1 will meet threshold requirements for Initial Operational Capability and Block 2 will add technical interoperability enhancements.</p> <p>(U) <b><u>FY 2000 (\$ in Thousands)</u></b>                      (U) \$10,807 CSEL Engineering and Manufacturing Development                      (U) \$40 Government Test and Operational Assessment                      (U) \$2,016 Other Government Support                      (U) \$12,863 Total</p> <p>(U) <b><u>FY 2001 (\$ in Thousands)</u></b>                      (U) \$7,780 CSEL Engineering and Manufacturing Development                      (U) \$390 Government Test and Operational Assessment                      (U) \$2,572 Other Government Support                      (U) \$10,742 Total</p> <p>The following net transactions are not reflected in the FY 2001 program total: SBIR=-\$65K and BTR=-\$603K. These transactions are not reflected in other sections of this document where an FY 2001 total is shown.</p>											
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<p>(U) <b><u>A. Mission Description Continued</u></b></p> <p>(U) <u>FY 2002 (\$ in Thousands)</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">(U) \$8,760</td> <td>CSEL Engineering and Manufacturing Development</td> </tr> <tr> <td>(U) \$656</td> <td>Government Test and Operational Assessment</td> </tr> <tr> <td>(U) \$2,070</td> <td>Other Government Support</td> </tr> <tr> <td>(U) \$11,486</td> <td>Total</td> </tr> </table> <p>(U) <b><u>B. Budget Activity Justification</u></b></p> <p>This program is in Budget Activity 5, Engineering and Manufacturing Development, because it is in engineering and manufacturing development and has not received full-rate production approval.</p> <p>(U) <b><u>C. Program Change Summary (\$ in Thousands)</u></b></p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="width: 60%;"></th> <th style="text-align: center;"><u>FY 2000</u></th> <th style="text-align: center;"><u>FY 2001</u></th> <th style="text-align: center;"><u>FY 2002</u></th> <th style="text-align: center;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget (FY 2001 PBR)</td> <td style="text-align: center;">13,212</td> <td style="text-align: center;">10,842</td> <td style="text-align: center;">3,471</td> <td style="text-align: center;">74,396</td> </tr> <tr> <td>(U) Appropriated Value</td> <td style="text-align: center;">13,412</td> <td style="text-align: center;">10,842</td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>    a. Congressional/General Reductions</td> <td style="text-align: center;">-110</td> <td style="text-align: center;">-76</td> <td></td> <td></td> </tr> <tr> <td>    b. Small Business Innovative Research</td> <td style="text-align: center;">-487</td> <td></td> <td></td> <td></td> </tr> <tr> <td>    c. Omnibus or Other Above Threshold Reprogram</td> <td style="text-align: center;">-144</td> <td></td> <td></td> <td></td> </tr> <tr> <td>    d. Below Threshold Reprogram</td> <td style="text-align: center;">244</td> <td></td> <td></td> <td></td> </tr> <tr> <td>    e. Rescissions</td> <td style="text-align: center;">-52</td> <td style="text-align: center;">-24</td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Budget Years Since FY 2001 PBR</td> <td></td> <td></td> <td style="text-align: center;">8,015</td> <td></td> </tr> <tr> <td>(U) Current Budget Submit/FY 2002 PBR</td> <td style="text-align: center;">12,863</td> <td style="text-align: center;">10,742</td> <td style="text-align: center;">11,486</td> <td style="text-align: center;">83,372</td> </tr> </tbody> </table> <p>(U) <b><u>Significant Program Changes:</u></b>  FY 2000: Below Threshold Reprogram to support radio development work  FY 2002 and FY 2003: Adjustments to continue Block 2 development effort</p>			(U) \$8,760	CSEL Engineering and Manufacturing Development	(U) \$656	Government Test and Operational Assessment	(U) \$2,070	Other Government Support	(U) \$11,486	Total		<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Total Cost</u>	(U) Previous President's Budget (FY 2001 PBR)	13,212	10,842	3,471	74,396	(U) Appropriated Value	13,412	10,842			(U) Adjustments to Appropriated Value					a. Congressional/General Reductions	-110	-76			b. Small Business Innovative Research	-487				c. Omnibus or Other Above Threshold Reprogram	-144				d. Below Threshold Reprogram	244				e. Rescissions	-52	-24			(U) Adjustments to Budget Years Since FY 2001 PBR			8,015		(U) Current Budget Submit/FY 2002 PBR	12,863	10,742	11,486	83,372
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DATE  
**June 2001**

<b>BUDGET ACTIVITY</b> <b>05 - Engineering and Manufacturing Development</b>	<b>PE NUMBER AND TITLE</b> <b>0305176F Combat Survivor Evader Locator</b>	<b>PROJECT</b> <b>4522</b>
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**(U) D. Other Program Funding Summary (\$ in Thousands)**

	<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>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) Other Procurement, Air Force - WSC 837170 (Budget Activity 3, P-64)	835	7,628	2,222	20,623	19,557	19,685	32,611	36,846	51,100	202,803

Note: Army and Navy equipment is funded separately by those services.

**(U) E. Acquisition Strategy**

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

**(U) F. Schedule Profile**

	<u>FY 2000</u>			<u>FY 2001</u>			<u>FY 2002</u>						
	1	2	3	4	1	2	3	4	1	2	3	4	
(U) Engineering & Manufacturing Development	*	*	*	*	*	*	*	*	X	X	X	X	X
(U) Government Developmental Testing					*	*							
(U) Operational Assessment						*							
(U) Low-Rate Initial Production (LRIP) Lot 1 Award								X					
(U) LRIP Lot 2 Award									X				
(U) LRIP Lot 1 First Unit Delivery										X			
(U) Government Developmental Testing									X	X			
(U) Multi-Service Operational Test & Evaluation													X

\* = completed event

X = planned event

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE June 2001			
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0305176F Combat Survivor Evader Locator			PROJECT 4522		
<b>(U) A. Project Cost Breakdown (\$ in Thousands)</b>										
						<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>
(U)	CSEL Engineering and Manufacturing Development					10,807		7,780		8,760
(U)	Government Test and Operational Assessment					40		390		656
(U)	Other Government Support					2,016		2,572		2,070
(U)	Total					12,863		10,742		11,486
<b>(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)</b>										
<b>(U) Performing Organizations:</b>										
<u>Contractor or Government</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Performing Activity</u>	<u>Project Office</u>	<u>Total Prior to FY 2000</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Performing Activity</u>	<u>or Funding Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>						
<u>Product Development Organizations</u>										
Boeing	CPAF	23 Feb 96	62,266	62,266	33,918	10,807	7,780	8,760	1,001	62,266
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	615	232	832	387	0	2,066
PRC/ARINC	CPAF	Multiple	N/A	N/A	695	475	636	648	0	2,454
FFRDC (MITRE/Aerospace)	CPAF	Multiple	N/A	N/A	1,649	548	742	594	248	3,781
MANTECH	CPAF	Multiple	N/A	N/A	0	600	0	0	0	600
SMC	CPAF	Multiple	N/A	N/A	3,923	161	362	441	110	4,997
Miscellaneous	Multiple	Multiple	N/A	N/A	140	0	0	0	0	140
<u>Test and Evaluation Organizations</u>										
AFOTEC	CPAF	Multiple	N/A	N/A	200	0	0	0	0	200
746TS	CPAF	Multiple	N/A	N/A	1,286	0	0	0	0	1,286
SPAWAR	CPAF	Multiple	N/A	N/A	25	0	0	0	0	25
Joint Spectrum Center	CPAF	Multiple	N/A	N/A	134	0	110	0	0	244
ESC (TBMCS SPO)	CPAF	Multiple	N/A	N/A	0	0	50	50	50	150
EPG	MIPR	Multiple	N/A	N/A	90	40	190	456	0	776
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE June 2001			
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT		
<b>05 - Engineering and Manufacturing Development</b>				<b>0305176F Combat Survivor Evader Locator</b>				<b>4522</b>		
<b>(U) Performing Organizations Continued:</b>										
<u>Test and Evaluation Organizations</u>										
JITC	MIPR	Multiple	N/A	N/A	197	0	40	0	0	237
PMW-157 (GCCS-M)	MIPR	Multiple	N/A	N/A	0	0	0	150	0	150
					<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 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development					37,918	10,807	7,780	8,760	1,001	66,266
Subtotal Support and Management					7,022	2,016	2,572	2,070	358	14,038
Subtotal Test and Evaluation					1,932	40	390	656	50	3,068
Total Project					46,872	12,863	10,742	11,486	1,409	83,372