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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2000		
BUDGET ACTIVITY <b>05 - Engineering and Manufacturing Development</b>				PE NUMBER AND TITLE <b>0305176F Combat Survivor Evader Locator</b>				PROJECT <b>654522</b>		
COST (\$ in Thousands)		FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
654522	CSAR EMD	3,977	13,212	10,842	3,471	0	0	0	0	74,396
Quantity of RDT&E Articles		0	0	0	0	0	0	0	0	0
<p>(U) <b><u>A. Mission Description</u></b>            (U) The Combat Survivor Evader Locator (CSEL) is a joint program, with the Air Force as lead Service, that will provide enhanced Combat Search and Rescue (CSAR) communications and location capability by replacing antiquated survivor radios (PRC-90/112) 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 which incorporates two-way, secure over-the-horizon (OTH) messaging, line-of-sight (LOS) voice, near real-time geopositioning, verification of evader identity and condition, low probability of intercept/detection (LPI/LPD), and the potential integration of commercial satellite systems capabilities.</p> <p>(U) <b><u>FY 1999 (\$ in Thousands)</u></b>            (U) \$3,362 CSEL Engineering and Manufacturing Development            (U) \$615 Other Government Support            (U) \$3,977 Total            Note 1: The AF reprogrammed \$3.999M into the CSEL program in FY99 to continue development of the CSEL system.</p> <p>(U) <b><u>FY 2000 (\$ in Thousands)</u></b>            (U) \$11,524 CSEL Engineering and Manufacturing Development            (U) \$90 Government Test and Operational Assessment            (U) \$1,598 Other Government Support            (U) \$13,212 Total</p> <p>(U) <b><u>FY 2001 (\$ in Thousands)</u></b>            (U) \$8,478 CSEL Engineering and Manufacturing Development            (U) \$196 Government Test and Operational Assessment            (U) \$2,168 Other Government Support            (U) \$10,842 Total</p>										
Project 654522			Page 1 of 5 Pages				Exhibit R-2 (PE 0305176F)			

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<b>(U) B. Budget Activity Justification</b>									
This program is in Budget Activity (BA) 5, Engineering and Manufacturing Development (EMD) because it is in engineering and manufacturing development and has not received full-rate production approval.									
<b>(U) C. Program Change Summary (\$ in Thousands)</b>									
		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>Total Cost</u>	
(U) Previous President's Budget (FY 2000 PBR)		0		13,412		10,939		47,854	
(U) Appropriated Value		0		13,412					
(U) Adjustments to Appropriated Value									
a. Congressional/General Reductions				-6					
b. Small Business Innovative Research									
c. Omnibus or Other Above Threshold Reprogram				-90					
d. Below Threshold Reprogram		3,999							
e. Rescissions		-22		-104					
f. Other									
(U) Adjustments to Budget Years Since FY 2000 PBR						-97			
(U) Current Budget Submit/FY 2001 PBR		3,977		13,212		10,842		74,396	
<b>(U) Significant Program Changes:</b>									
(U)FY 1999 Below Threshold Reprogramming required to continue the development at a reduced level until funding could be appropriated in FY 2000. FY 2001 reduction for higher priority DoD programs.									
<b>(U) D. Other Program Funding Summary (\$ in Thousands)</b>									
	<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>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>	
(U) Other Procurement, Air Force (PE 0305176F) (BA 63, P-70)	2,916	836	3,104	2,249	5,830	5,956	6,064	Continuing	TBD
<b>(U) E. Acquisition Strategy</b>									
All major contracts within this Program Element were awarded after full and open competition.									
<b>(U) F. Schedule Profile</b>									
		<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>			
Project 654522									

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(U) **F. Schedule Profile Continued**

	<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Engineering Manufacturing Development	*	*	*	*	*	X	X	X	X	X	X	X
(U) Option 1 (First Unit) Delivery					*							
(U) Government Developmental Test							X	X				
(U) Operational Assessment								X	X			
(U) LRIP Award									X			
(U) LRIP Deliveries												X

\* = completed event  
X = planned event

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000				
BUDGET ACTIVITY					PE NUMBER AND TITLE			PROJECT			
<b>05 - Engineering and Manufacturing Development</b>					<b>0305176F Combat Survivor Evader Locator</b>			<b>654522</b>			
<b>(U) A. Project Cost Breakdown (\$ in Thousands)</b>											
						<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>			
(U)	CSEL Engineering and Manufacturing Development					3,362	11,524	8,478			
(U)	Government Test and Operational Assessment					0	90	196			
(U)	Program Office Support										
(U)	SPAWAR (US Navy Ground Station Integration and Support)					99	232	832			
(U)	PRC/ARINC Contractor Support					245	475	481			
(U)	FFRDC (MITRE/Aerospace) Support					218	740	755			
(U)	Space and Missile Center					53	151	100			
(U)	Total					3,977	13,212	10,842			
<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 or Funding Vehicle</u>	<u>Award or Obligation Date</u>	<u>Performing Activity EAC</u>	<u>Project Office EAC</u>	<u>Total Prior to FY 1999</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Product Development Organizations</u>											
	Boeing	CPAF	23 Feb 96	55,036	55,036	30,056	3,362	11,524	8,478	1,616	55,036
	SMC (COBRA)	Multiple	Multiple	4,000	4,000	4,000				0	4,000
<u>Support and Management Organizations</u>											
	Program Support					6,545	615	1,598	2,168	1,755	12,681
<u>Test and Evaluation Organizations</u>											
	AFOTEC					304	0	40	0	100	444
	746TS					1,989	0	0	0	0	1,989
	SPAWAR					0	0	50	150	0	200
	Joint Spectrum Center					0	0	0	46	0	46

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BUDGET ACTIVITY		PE NUMBER AND TITLE			PROJECT	
<b>05 - Engineering and Manufacturing Development</b>		<b>0305176F Combat Survivor Evader Locator</b>			<b>654522</b>	
		<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Total</u>
		<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Program</u>
<u>Subtotals</u>					<u>Budget to</u>	
					<u>Complete</u>	
Subtotal Product Development		34,056	3,362	11,524	8,478	1,616
Subtotal Support and Management		6,545	615	1,598	2,168	1,755
Subtotal Test and Evaluation		2,293	0	90	196	100
Total Project		42,894	3,977	13,212	10,842	3,471
						74,396