	RDT&E BUDGET ITEM	DATE	DATE June 2001								
	ET ACTIVITY Operational System Development	PE NUMBER AND TITLE 0207412F Modular Control System									
	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
485L	Theater Air Control System Imp (TACSI)	6,205	19,691	7,047	6,730	4,777	20,029	4,972	5,067	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

FY03-FY07 budget numbers do not reflect the DoD strategic review results

(U) A. Mission Description

The Control and Reporting Center (CRC), formerly known as the Ground Theater Air Control System (GTACS), also referred to under PE Title Modular Control System (MCS), is a low density/high demand rapidly deployable ground Command and control (Cs) asset for the Joint Task Force/Joint Forces Air Component Commander. The CRC is the senior C2 element providing connectivity and interoperability among elements of the Theater Air Control System (TACS) to include United States Air Force, Navy, Marine Corps, Army and allied/coalition assets. A modernization plan to fulfill Expeditionary Aerospace Force (EAF) requirements was programmed to start in FY01. Funding was obtained by realigning existing dollars and 'trading' manpower for RDT&E and procurement dollars. Modernization depended on 'reusing' software development under the Region/Sector Air Operations Center Modernization (R/SAOC) Program, which was terminated in Oct 99. The manpower originally 'traded' induced unacceptable operational risks and was ' brought back' with program dollars in the FY02 POM. These two actions drove the CRC/CRE Program back into its earlier sustainment mode while providing minimal upgrade improvements in smaller steps. To fulfill the modernization requirement to support EAF taskings, the CRC Program is exploring the opportunity to leverage off an acquisition strategy entitled Common Battle Management Software (CBMS) for utilization by several C2 platforms to further advance C2 concepts supporting future aerospace operations. Conducting acquisition activities to include, but not limited to requirements analysis, modeling and simulation, risk reduction, acquisition planning, enterprise integration, prototype development (i.e., radio/radar/data link remoting), and continued development of Theater Air Defense (TAD) Missile Tracking System (MTS) EMD.

(U) <u>FY 2000 (\$ in Thousands)</u>

(U) \$425 Continue Concept Definition/Development for Evolutionary Upgrades to the CRC

(U) \$339 Continue program support (i.e. travel, supplies, miscellaneous)

(U) \$5,441 Initiate Development of TAD MTS Upgrade for the Radar Sensors (includes TAD MTS direct mission Support)

(U) \$6,205 Total

Project 485L Page 1 of 6 Pages Exhibit R-2 (PE 0207412F)

	RDT&E BUDGET ITEM JUSTI	FICATION SHEET (R-2 Exhibit))	DATE Jun	e 2001
	GET ACTIVITY Operational System Development	PE NUMBER AND TITLE 0207412F Modular Co	ntrol Syster	n	PROJECT 485L
(U)	A. Mission Description Continued				
(U) (U)	· · · · · · · · · · · · · · · · · · ·	oment of Evolutionary Upgrades to the CRC (to include an anced radio/radar/data link remoting, misc.) (include a control of the control of th		•	•
(U) (U) (U) (U)	\$927 Continue Program Support (i.e., travel				
	The following net transactions are not reflected in the FY01 R-docs where an FY01 total is shown.	program total: BTR=-826K and SBIR=-700K. TI	hese transactions	s are not reflected in ot	her sections of the
(U) (U) (U) (U) (U)	Upgrades, BCS open architecture, enh \$503 Continue Program Support (i.e., travel	oment of Evolutionary Upgrades to the CRC (to include an anced radio/radar/data link remoting, misc.) (included, supplies, equipment, miscellaneous) Upgrade for the Radar Sensors (Includes TAD Management)	ıdes Evolutionaı	ry Upgrades direct mis	•
(U) (U)	\$7,047 Total B. Budget Activity Justification The program is in Budget Activity 7 because CRC is a fielder	ed, operational system.			
(U)	C. Program Change Summary (\$ in Thousands)	FY 2000	FY 2001	FY 2002	Total Cost
(U) (U) (U)	Previous President's Budget (FY 2001 PBR) Appropriated Value Adjustments to Appropriated Value a. Congressional/General Reductions b. Small Business Innovative Research c. Omnibus or Other Above Threshold Reprogram	467 6,467 -194	19,873 19,873	27,206	TBD
P	roject 485L	Page 2 of 6 Pages		Exhibit R-2	(PE 0207412F)

	RDT&E BU	DGET IT	TEM JUS	STIFICA	TION SH	HEET (R	-2 Exhib	oit)		DATE June	2001
	GET ACTIVITY Operational System Delication	evelopm	ent			NUMBER AND 07412F		Control Sy	/stem		PROJECT 485L
(U)	C. Program Change Summar	ry (\$ in Tho	usands) Con	<u>tinued</u>		-	TV 2000	EV 2001		W. 2002	T . 10
	d. Below Threshold Reprogran	n				1	<u>FY 2000</u> -43	FY 2001		<u>Y 2002</u>	<u>Total Cos</u>
	e. Rescissions						-25	-182			
(U)	Adjustments to Budget Years S		01 PBR						-	20,159	
(U)	Current Budget Submit/FY 200	02 PBR					6,205	19,691		7,047	TBD
(U) Significant Program Changes: 1. Funding of Program Office Support in FY01 shifts from Production (3080) to RDT&E (3600) in conjunction with development of evolutionary upgrades to CRC/CRE architecture. FY02 and out reductions resulted from realignment of funding from RDT&E/OPAF to OPAF & manpower buyback.2. FY00 reduction of 17K due to cancelled year bill for the EMT Program being paid with FY00 dollars											
(U)	D. Other Program Funding St	•									
		FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to	Total Cos
(U)	Other APPN	<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)	Other Procurement Air Force, WSC 833040, Theater Air	15,710	2,034	0	3,289	22,350	27,134	44,928	45,379	Continuing	TBD
(U)	Control System Improvement Other Procurement Air Force, WSC 838010, Comm Electronic Mods	1,021	745	788	592						TBD
(U)	Other Procurement Air Force, WSC 86190A, Initial Spares	1,521	1,260	1,065	421	385	88			Continuing	TBD
(U)	E. Acquisition Strategy Primary emphasis on this prograbelow.	am continues	s to be sustain	nment, while	more modes	t steps towar	d upgrade/im	provement w	ill be initiat	ed in FY01 and ou	t as outlined
	Concept Definition/Development 1. In FY00, funding was used to prototype and SVA productization	o perform ar	n environmen	tal assessme	nt and indepe	•		•		_	_

Project 485L

Exhibit R-2 (PE 0207412F)

	RDT&E BUDGET ITEM JUSTIF	ICATION	SHE	ET (R	-2 Ex	hibit)			DAT		lune 2	001	
	GET ACTIVITY - Operational System Development			MBER AN 412F	d title Modul	ar Coı	ntrol S	ystem	•			PRO. 485	
(U)	E. Acquisition Strategy Continued an improvement, which allows for rapid insertion of technology deployed footprint, keeping personnel out of harms way.) This 2. The CRC Program is exploring the opportunity to leverage of	capability ens	ares coni	nectivity	with For	rward C	2 platfori	ns and fi	ghters.				
	several C2 platforms to further advance C2 concepts supporting Density/High Demand (LD/HD) crews and reduces operational	g future aerosp	ace opera	ations.	This strat	egy imp	oves wa						у
(U)	F. Schedule Profile												
		1		2000	4	1	<u>FY 2</u>		4	1	FY	2002	4
(U)	CRC - TAD MTS	1	2	3	4	1 *	2	3	4	1 X	2	3	4
(U)	Evolutionary Upgrades to the CRC						*			X			
	* Denotes completed event x Denotes planned event												
	Project 485I	Рабе	24 of 6 P	Pages						Eyhihit	R-2 (P	F 02074	112F)

	RDT&E PROG	RAM ELE	MENT/P	ROJECT C	OST BI	REAKDO	WN (R-3))	DATE	June 200)1
	ET ACTIVITY Operational System I	Developme	nt			ER AND TITLE 2F Modul	ar Control			PROJECT 485L	
(U)	A. Project Cost Breakdown	(\$ in Thousand	ls)								
							<u>FY 2</u>	<u> 2000</u>	FY 20	<u>)01</u>	FY 2002
(U)	Program Support (i.e. travel,	supplies, and mi	scellaneous)					339	92	27	503
(U)	Systems Engineering							0	62	28	377
(U)	Concept Definition/Developm systems, enhanced radio/rada Support)							425	9,0	67	3,895
(U)	Development of TAD MTS U Support)	Jpgrade for the I	Radar Sensors	(includes dedicat	ed TAD M	ΓS SPO	5,	441	9,0	69	2,272
(U)	Total						6,	205	19,6	91	7,047
(U)	B. Budget Acquisition Histo	ry and Plannin	g Informatio	n (\$ in Thousand	<u>s)</u>						
(U)	Performing Organizations: Contractor or Government	Contract Method/Type	Award or	Performing	<u>Project</u>						
	Performing	or Funding	Obligation	<u>Activity</u>	<u>Office</u>	Total Prior	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	Budget to	<u>Total</u>
	Activity	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	to FY 2000	FY 2000	FY 2001	FY 2002	Complete	<u>Program</u>
	Product Development Organiz										
	Contractor Northrop Grumman, Baltimore - TAD MTS	FFP	1QFY01	N/A	N/A		5,441	9,069	2,272	Continuing	TBD
	Rome Labs & NAWCAD - Concept Definition/Development of Evolutionary Upgrades	FFP	1QFY01	N/A	N/A		425	9,067	3,895	Continuing	TBD
	Support and Management Org	-								~ · ·	
	Miscellaneous program support (travel, supplies, etc.)	Various	Various	N/A	N/A		339	927	503	Continuing	TBD
	Systems Engineering.	Various	Various	N/A	N/A		0	628	377	Continuing	TBD
Pi	roject 485L			Pag	e 5 of 6 Pag	ges			Exhil	bit R-3 (PE ()207412F)

	RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										June 2001			
BUDGET ACTIVITY 07 - Operational System Development						BER AND TITLE 12F Module	ar Contro	PROJECT 485L						
(U)	Performing Organization Test and Evaluation Organ GFP/GFE:													
(U)		Contract Method/Type	Award or											
	Item Description Product Development Prop None Support and Management I None Test and Evaluation Proper None	Property	Obligation Date	Delivery Date		Total Prior to FY 2000	Budget FY 2000	Budget FY 2001	Budget FY 2002	Budget to Complete	<u>Total</u> <u>Program</u>			
	Subtotals Subtotal Product Developm Subtotal Support and Mana Subtotal Test and Evaluation	ngement				Total Prior to FY 2000	Budget FY 2000 5,866 339	Budget FY 2001 18,136 1,555	Budget FY 2002 6,167 880	Budget to Complete TBD TBD	<u>Total</u> <u>Program</u> TBD TBD			
	Total Project						6,205	19,691	7,047	TBD	TBD			
F	Project 485L]	Page 6 of 6 Pa	ges			Exhib	it R-3 (PE 02	07412F)			