	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)										February 2003		
BUDGET ACTIVITY 07 - Operational System Development				ES	PROJECT 4135								
	COST (\$ in Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost		
4135	Titan II/IV	16,947	0	0	0	0	0	0	0	0	3,006,164		
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0		

(U) A. Mission Description

National security requirements dictate a continuing, highly reliable means of placing critical satellites into required orbits. The Titan IV program provides the capability to launch the largest of these satellites into near-earth or geosynchronous orbits from either the East or West Coast launch facilities. Titan IV is used to launch Air Force, National Reconnaissance Office (NRO), and NASA payloads. This program provides several different configurations of the Titan IV including No Upper Stage (NUS), Inertial Upper Stage (IUS), and Centaur. In addition, the Titan IV program developed a new vehicle configuration, the Titan IVB, with solid rocket motor upgrade (SRMU), new avionics and ground support equipment to meet reliability and increased performance requirements. This program provides continuing integration support to the payload community as well as engineering support to maintain system characterization and reliability. The program also continuously evaluates and improves upper stage reliability, cost effectiveness, and responsiveness; supports redesign and disposition of aging spares and facilities which are no longer manufactured or available; investigates flight anomalies; and conducts small studies to assist in defining future upper stages.

Since FY94, this program element also included funding for sustaining engineering, payload integration, and government costs for the Titan II space launch vehicle. Since FY96, program office support efforts have been funded with procurement dollars.

Beginning in FY00, the remaining Inertial Upper Stage Program (PE 0305138F) funds transferred into the Titan program to provide consolidated acquisition of the IUS to support the launch of Defense Support Program (DSP) satellites. IUS is an upper stage on the Titan IV (can be modified for Shuttle) and delivers the DSP satellite to its required orbit.

NOTE: Titan IV / Milstar 6 and Titan II / Coriolis Space Test Program missions previously manifested in FY02 have moved into FY03 due to satellite delays and unavailability of launch ranges -- integration will be finished in FY03 with FY02 funding.

Project 4135 Page 1 of 5 Pages Exhibit R-2 (PE 0305144F)

	RDT&E BUDGET ITEM JUSTIFIC	DATE Februa	February 2003		
BUDGET ACTI 07 - Opera	VITY ational System Development	H VEHICLES	PROJECT 4135		
(U) <u>A. Mis</u>	sion Description Continued				
(U) FY 200 (U) \$0 (U) \$15,15 (U) \$1,793 (U) \$0 (U) \$16,94	Continued Titan II / Coriolis Space Test P No Activity	•			
(U) FY 200 (U) \$0 (U) \$0 (U) \$0	O3 (\$ in Thousands) Accomplishments/Planned Program No new activity planned (see FY02 descri Total	ption)			
(U) FY 200 (U) \$0 (U) \$0 (U) \$0	04 (\$ in Thousands) Accomplishments/Planned Program No Activity Total				
	lget Activity Justification E is in Budget Activity 7, Operational Systems Developments.	ent, because Titan II, Titan IV and the Iner	tial Upper Stage ar	e in production and are	operational
(U) <u>C. Pro</u>	gram Change Summary (\$ in Thousands)				
(U) Approp (U) Adjust a. Cong b. Sma c. Omr d. Belo	us President's Budget priated Value ments to Appropriated Value gressional/General Reductions Ill Business Innovative Research nibus or Other Above Threshold Reprogram ow Threshold Reprogram	FY 2002 21,080 21,293 -301 -1,277 -2,768	FY 2003	FY 2004	Total Cost 3,010,510
Project 4		Page 2 of 5 Pages		Exhibit R-2	(PE 0305144F)

	RDT&E BUDGET ITEM JUSTI	FICATI	ON SF	IEET (R		DATE February 2003					
=	GET ACTIVITY Operational System Development			PE NUMBER AND TITLE 0305144F TITAN SPACE LAUNCH					VEHICLES		
(U)	C. Program Change Summary (\$ in Thousands) Continu	<u>ıed</u>			Y 2002	FY 2003		FY 2004		413	otal Cost
(U) (U)	Adjustments to Budget Years Since FY 2003 PBR Current Budget Submit/FY 2004 PBR			_	16,947	11 2005	<u>.</u>	1 2001			006,164
(U)	Significant Program Changes: Titan IV / Milstar 6 and Titan II / Coriolis Space Test Program missions previously manifested in FY02 have moved into FY03 due to satellite delays and unavailability of launch ranges integration finished in FY03 with FY02 funding.										
(U)			FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	<u>Cos</u> Com	st to	<u>To</u>	otal Cost
(U)		91,499	74,697	71,361	30,980	0	0		0		310,464 FY01)
(U)	E. Acquisition Strategy The program has implemented a revised acquisition strategy development/production and payload integration contract to reverall programmatic view for the effort to complete the programmatic view for the effort view for	new contractions are the second and had a ment a	cts designe new contra ardware re	d to improve acts combined qualification	cost account I Titan II and	tability, corre	ct contract oduction, sto	discrepancie orage, pad m	s, and es aintenan	ce and	
(U)	F. Schedule Profile		1 2	FY 2002 2 3	4 1	<u>FY 20</u> 2	<u>)003</u> 3 4	1 1	<u>FY :</u>	2004 3	4
(U) (U)	Milstar 5 and Milstar 6 launches Titan II launch (STP/Coriolis, Jan 03 and DMSP F-16, May 0 *completed event X planned event	03)	1 2	. 3	4 1	2 X *	3 Z	+ 1	2	3	4
Р	roject 4135		Page 3 of	f 5 Pages				Exhibi	t R-2 (P	E 03051	44F)

	RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)									February 2003			
	GET ACTIVITY Operational Systen	n Developme	nt			BER AND TITLE 44F TITAN	SPACE L	AUNCH V	EHICLES		PROJECT 4135		
(U)	A. Project Cost Breakdov	wn (\$ in Thousan	<u>ds</u>)				EX.	2002	EV 200	2	EV 2004		
(U)	Contract Costs Unified Pay	aload Integration					<u>FY 2</u>	<u>2002</u> .947	FY 200	<u>)3</u> 0	FY 2004		
(U)	Total	yioau iiitegratioii						,947 ,947		0	0		
, ,							10,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	O	O		
(U)	B. Budget Acquisition His	story and Plannir	<u>ig Informatio</u>	n (\$ in Thousa	ınds)								
(U)	Performing Organization	<u>s:</u>											
, ,	Contractor or	Contract											
	Government	Method/Type	Award or	Performing	Project								
	Performing	or Funding	Obligation	<u>Activity</u>	<u>Office</u>	Total Prior	Budget	Budget	Budget	Budget to	<u>Total</u>		
	Activity	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	to FY 2002	FY 2002	FY 2003	FY 2004	<u>Complete</u>	Program		
	Product Development Orga												
	LMC 85-C-0019*	SS/FPIF	1QFY85	11,203,100	11,203,100	2,042,016	0	0	0	0	2,042,016		
	LMC 85-C-0085**	SS/FPIF	1QFY85	678,715	678,715	72,504	0	0	0	0	72,504		
	LMC 92-C-0028**	SS/CPAF	3QFY92	515,251	515,251	93,428	0	0	0	0	93,428		
	LMC 96-C-0035	SS/CPAF	3QFY96	232,923	229,304	225,758	0	0	0	0	225,758		
	LMC 98-C-0005***	SS/CPAF	1QFY98	257,381	256,829	62,705	16,947	0	0	0	79,652		
	Facilities	n/a	n/a			6,993	0	0	0	0	6,993		
	NOTE: EAC are total cont	ract values while	funding values	are AF funds	only								
	* Contract closed												
	** Contracts inactive												
	*** Includes both RDT&E		funding										
	Support and Management (<u>Organizations</u>		27/4	27/1	101 555	0		0		101 777		
	Tecolote, SRS, TRW,			N/A	N/A	101,557	0	0	0	0	101,557		
	Antioch			NT/A	NT/A	22.060	0	0	0	0	22.069		
	Other Research & Dev.			N/A	N/A	33,068	0	0	0	0	33,068		
	Aerospace			N/A	N/A	188,367	0	0	0	0	188,367		
	Other Prgm Supprt Test and Evaluation Organi	izations		N/A	N/A	162,821	U	U	0	Ü	162,821		
	None None	<u>izatiOIIS</u>											
Р	roject 4135			F	Page 4 of 5 Page	ges			Exhib	it R-3 (PE 0	305144F)		

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)									PATE February 2003		
BUDGET ACTIVITY 07 - Operational System Development					BER AND TITLE 44F TITAN	SPACE L	EHICLES	PROJECT EHICLES 4135			
(U)	Item Description Product Development Proper None Support and Management Pr None Test and Evaluation Property	Contract Method/Type Award or or Funding Obligation Vehicle Date operty			Total Prior to FY 2002	Budget FY 2002	Budget FY 2003	Budget FY 2004	Budget to Complete	<u>Total</u> <u>Program</u>	
	None Subtotals Subtotal Product Developme Subtotal Support and Manag Subtotal Test and Evaluation Total Project	ement			Total Prior to FY 2002 2,503,404 485,813 2,989,217	Budget FY 2002 16,947 0	Budget FY 2003 0 0	Budget FY 2004 0 0	Budget to Complete 0 0 0	Total Program 2,520,351 485,813 3,006,164	
F	Project 4135			Page 5 of 5 Pag	ges			Exhib	it R-3 (PE 03	305144F)	