	RDT	DATE	February 2003									
BUDGET ACTIVITY 05 - System Development and Demonstration (SDD) PE NUMBER AND TITLE 0604479F MILSTAR LDR/MDR Sat Comm 5												
	COST (\$ i	n 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
5010	Milstar Sat Comm	Sys	226,391	147,787	1,383	1,384	0	0	0	0	0	9,703,353
	Quantity of RDT&	E Articles	1	1	0	0	0	0	0	0	0	6
	1 and 2 have a low II Satellites 3 throu nulling that will ne shutdown. Milstar	e communication terminals for data rate (LDR) payload that sigh 6 have both LDR and medicutralize close-in enemy jammes satellite 4 was launched success in Feb 2003. Milstar Termin	supports str um data ra ers. Satell ssfully on	rategic and to te (MDR) p lite 3 did no 27 February	tactical force ayloads with treach its programme 2001 and s	es with empth increased broper orbit satellite 5 w	phasis on hi tactical cap and the sate as launched	ghly surviv pabilities, in ellite was pl	able, minin cluding hig aced in its f	num essenti gher data rat final non-in	al communic es to mobile terference or	eations. Milstar forces and bit and
(U) (U) (U)	FY 2002 (\$ in Thou \$0 \$146,529	Isands) Accomplishment/Planned Milstar II contract effort in continued component integ operationally required.	cluded Sat									
(U)	\$47,104											
(U)	\$17,926	Communications Planning Automated Communicat	ions Mana	gement Sys	tem (ACMS	s) developm			nd certificat	cion		
	\$4,600	Mission Communications Planning Tool (MCPT) maintenance Joint Integrated SATCOM Technology (JIST) development										
(U)	Ψ1,000	Joint Integrated SATCOM	Technolog	gy (JIST) de	evelopment							
(U) (U)	\$10,232	Joint Integrated SATCOM Basic Program Office supp		gy (JIST) de	evelopment							

Exhibit R-2 (PE 0604479F)

Project 5010

	RD	T&E BUDGET ITEM JUSTIFICATION	ON SHEET (R-2 Exhib	oit)	DATE Febru	ary 2003
_	GET ACTIVITY - System Deve	elopment and Demonstration (SDD)	PE NUMBER AND TITLE 0604479F MILSTAR	LDR/MDR Sa	t Comm	PROJECT 5010
(U)	A. Mission Descri	ription Continued				
(U)	FY 2003 (\$ in Th	ousands)				
(U)	\$0	Accomplishment/Planned Program				
(U)	\$77,026	Milstar II contract effort includes Satellite 6 laund Mission Control System service life extension) ar IOC II.		•		
(U)	\$48,728	Milstar I/II Satellite Engineering contract effort in availability for Satellites 1, 2, 4, 5 and 6. The conformaintianing this line item. Note: This effort transitions to 3400 in FY04.	-			
(U)	\$8,439	Communications Planning Element				
(U)	\$5,600	Joint Integrated SATCOM Technology (JIST) de	velopment			
(U)	\$7,994	Program Office Support				
(U)	\$147,787	Total				
(U)	FY 2004 (\$ in Th					
(U)	\$0	Accomplishment/Planned Program				
(U)	\$1,134	Milstar II contract effort includes contract close o	-			
(U) (U)	\$249 \$1,383	Continued Program Office and other related supp Total	ort activities			
(0)						
(U)	B. Budget Activi	· •	and a Milana Tala	.1		
	. •	n Budget Activity 5, System Development and Demons	stration since it funds Milistar II dev	reiopment.		
(U)	C. Program Cha	inge Summary (\$ in Thousands)				
~~			<u>FY 2002</u>	FY 2003	FY 2004	Total Cos
(U)	Previous Presider		228,722	148,936	1,415	9,706,890
(U) (U)	Appropriated Val	ue ppropriated Value	232,184	150,536		
(0)		General Reductions	-4,561	-2,104		
	-	s Innovative Research	-8,000	2,104		
			2,229			
Р	roject 5010		Page 2 of 6 Pages		Exhibit R-2	2 (PE 0604479F)

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) DATE February 200											
	GET ACTIVITY System Development	and Dem	onstratio	n (SDD)		NUMBER ANI 604479F	D TITLE MILSTAR	LDR/MDF	R Sat Cor	nm	PROJECT 5010
(U)	C. Program Change Summar	y (\$ in Tho	usands) Con	ntinued		1	FY 2002	FY 2003	R F	Y 2004	Total Cost
	c. Omnibus or Other Above Th d. Below Threshold Reprogram e. Rescissions		rogram			<u>.</u>	6,768	-645		1 2007	<u>10tai Cos</u> t
(U) (U)	Adjustments to Budget Years S Current Budget Submit/FY 200		03 PBR			2	226,391	147,787		-32 1,383	9,703,353
(U)	Significant Program Changes: Flight 5 introduced 2 new techn communication services to the breach of FOC. Program Device	warfighter.	Flight 3 failu	are caused an	Acquisition	Program Bas	seline schedu	le breach for	MDR IOT&	E and IOC II, and	a performance
(U)	D. Other Program Funding St	-			EV 2005	EV 2006	EV 2007	EV 2009	EV 2000	Contro	Total Cost
an.	O.I. APPRIV	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	<u>Total Cost</u>
(U) (U)	Other APPN OPAF, PE 0303600F Wideband Gapfiller System, Project #836780, CCS-C		21,476	19,973	2,135	289				0	43,873
` ′	Related RDT&E: RDT&E - AF, PE 0603854F, Wideband Gapfiller System, Project #	16,543	11,836	36,686	20,350	8,292	7,013	5,704	6,347	0	122,624
(U)	644870, CCS-C, BA-4, R-53 RDT&E - AF, PE 0303601F, MILSATCOM	38,751	71,293	173,831	241,906	238,037	174,566	218,886	229,486		3,305,627
(U)	Terminals, BA-7, R-174 RDT&E - AF, PE 0603430F, Advanced EHF MILSATCOM, BA-4, R-43	459,631	822,477	778,078	573,652	402,398	317,428	189,563	130,898	142,100	4,310,915
Р	roject 5010				Page 3 or	f 6 Pages				Exhibit R-2 (PE 0604479F)

	RDT&E BU	DGET IT	EM JUS	STIFICA	TION SI	IEET (R	-2 Exhib	oit)	D	ATE Febru	ary 2003
	GET ACTIVITY - System Development	and Dem	onstratio	n (SDD)		NUMBER AN 604479F		LDR/MD	R Sat Con	nm	PROJECT 5010
(U)	D. Other Program Funding S	ummary (\$: FY 2002	in Thousand FY 2003	ls) FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to	Total Cost
(U)	RDT&E - AF, PE 0603432F, Polar Satellite Communications Program (Polar Adjunct), BA-4, R-40	<u>Actual</u> 21,380	Estimate 19,347	Estimate 5,580	Estimate 963	Estimate	Estimate	Estimate	Estimate	Complete 0	
(U)	E. Acquisition Strategy Lockheed Martin was awarded FY95. Satellite 3 launch in FY9 failure. Satellite 4 was launched scheduled to be launched in Feb	9 was to pro successfully	vide the first	LDR/MDR	on-orbit capa	ability, but th	e satellite did	l not reach its	s proper orbit	due to a Centau	ır upper stage
(U)	F. Schedule Profile										
(U) (U) (U) (U) (U) (U) (U)	Deliver ACMS Build 2, Inc 1 Deliver ACMS Build 2, Inc 2 MDR IOT&E IOC II Satellite 5 Launch Satellite 6 Launch FOC has been replaced by FF *=completed event X=planne Note: MDR IOT&E, IOC II, and	C in current				FY 2002 2 3	4 1 * gned 1 May	X X	3 4 X	1 2 X	FY 2004 2 3 4
P	roject 5010				Page 4 o	f 6 Pages				Exhibit R-2	2 (PE 0604479F)

	RDT&E PROG	DATE F (February 2003								
	SET ACTIVITY System Developmen	t and Demo	onstration ((SDD)		ER AND TITLE 79F MILST	AR LDR/N	IDR Sat C	omm		PROJECT 5010
(U)	A. Project Cost Breakdown	(\$ in Thousan	<u>ds</u>)								
							<u>FY 2</u>	<u> 2002</u>	FY 20	<u>03</u>	FY 2004
(U)	Milstar II						146,	529	77,02		1,134
(U)	Milstar I/II Satellite Engine	•					· · · · · · · · · · · · · · · · · · ·	104	48,72		0
(U)	Communications Planning F							926	8,43		0
(U)	Joint Integrated SATCOM T		T)					,600	5,60		
(U)	Basic Program Office Suppo	ort					10,	232	7,99	94	249
(U)	Total						226,	391	147,78	7	1,383
(U)	B. Budget Acquisition Histo	ry and Plannin	g Information	ı (\$ in Thousaı	<u>nds</u>)						
(U)	Performing Organizations:										
	Contractor or	Contract									
	Government	Method/Type	Award or	Performing	<u>Project</u>						
	Performing	or Funding	Obligation	Activity	Office	Total Prior	Budget	Budget	Budget	Budget to	<u>Total</u>
	Activity	<u>Vehicle</u>	<u>Date</u>	EAC	<u>EAC</u>	to FY 2002	FY 2002	FY 2003	FY 2004	Complete	Program
	Product Development Organiz	zations									
	LMSC (Milstar I) Sats	C/CPAF	Jun 83	4,727,752	4,727,752	4,727,752				0	4,727,752
	1,2,3L]										
	LMSC (Milstar II) [Sats 3M,	SS/CPAF	Oct 92/Nov	3,888,349	3,888,349	3,680,922	131,781	74,464	1,134	48	3,888,349
	4, 5, 6]		94								
	LMSC (Satellite Engineering)	SS/CPAF	Sep 97	210,195	210,195	114,363	47,104	48,728		0	210,195
	SPAWAR(ACMS)	SS/MIPR	Various	N/A	173,845	142,880	22,526	8,439		0	173,845
	LINCOM	SS/CPAF	Various	N/A	38,926	33,249	3,911	1,766		0	38,926
	Lincoln Lab	SS/MIPR	Various	N/A	34,802	31,235	2,000	1,567		0	34,802
	Miscellaneous	Various	Various	N/A	262,811	249,145	8,837	4,829		0	262,811
	Support and Management Organic										
	Aerospace	SS/CPFF/AF	Various	203,715	203,715	187,143	9,126	7,446			203,715
	Miscellaneous	Various	Various	162,958	162,958	159,719	1,106	548	249	1,336	162,958
	Test and Evaluation Organiza	<u>tions</u>									
	None.										
P	roject 5010			Pa	nge 5 of 6 Pag	ges			Exhib	it R-3 (PE 0	604479F)

RI	DATE F e	February 2003								
BUDGET ACTIVIT 05 - System	¬ n Development and Den	nonstration	(SDD)	.	BER AND TITLE 79F MILST	omm	PROJECT 5010			
Item Description Product Description Product Description None. Support and None. Test and Endowner. Subtotals Subtotal S	ent Furnished Property: Contract Method/Typ or Funding Nehicle evelopment Property Management Property Evaluation Property roduct Development upport and Management est and Evaluation		Delivery Date	06044	Total Prior to FY 2002 Total Prior to FY 2002 8,979,546 346,862 9,326,408	Budget FY 2002 Budget FY 2002 216,159 10,232 226,391	Budget FY 2003 139,793 7,994 147,787	Budget FY 2004 Budget FY 2004 1,134 249 1,383	Budget to Complete Budget to Complete 48 1,336 1,384	Total Program Program 9,336,680 366,673 9,703,353
Project 5010	0			Page 6 of 6 Pa	ges			Exhib	it R-3 (PE 06	604479F)