	RDT&E BUDGET ITEM	DATE	June 2001								
	TACTIVITY Operational System Development	PE NUMBER AND TITLE 0305160F Defense Meteorological Satellite Program									
	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
4758	DMSP Program	20,339	25,139	12,259	7,892	8,716	7,843	7,974	8,997	0	936,598
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

NOTE: This administration has not addressed FY 2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

(U) A. Mission Description

The Defense Meteorological Satellite Program (DMSP) is a fully operational program supporting all military services. Operational commanders require timely, quality weather information to effectively employ weapon systems and protect DoD resources. DMSP is the DoD's most important and often the only source of global weather data to support US military operations. It provides visible and infrared cloud cover imagery (1/3 nm constant resolution) and other meteorological, oceanographic, land surface, and space environmental data. At least two satellites are required in sun-synchronous, 450nm polar-orbit at all times (sun-synchronous means the satellites cross the equator at the same local sun time on each of their 14 orbits/day). Presidential Decision Directive PDD/NSTC-2 directed convergence of DMSP with the National Oceanic and Atmospheric Administration's (NOAA) POES polar-orbiting weather satellite system. A key step towards full program convergence was achieved in FY98 when DMSP satellite operations consolidated with NOAA satellite operations at NOAA's Suitland, MD, Satellite Operations Control Center (SOCC). DMSP F-15 was launched on a Titan-II booster in Dec 99. DMSP F-16 will be the last DMSP to launch on a Titan-II booster and is currently scheduled to launch in Nov of 2001. The remaining DMSPs, F-17 through F-20, are all manifested to launch on an Evolved Expendable Launch Vehicle (EELV) booster.

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

(U) \$13,015 Continued system integration and test, and related support activities

(U) \$988 Continued Titan II integration effort

(U) \$3,916 Continued EELV interface design (transition to EELV)

(U) \$981 Continued Small Tactical Terminal (field portable weather terminal) Special Sensor Microwave Imager and Sounder (SSMIS) software upgrades

(U) \$1,439 Began SSMIS calibration and validation

(U) \$20,339 Total

The following net transactions are not reflected in the FY00 program total: BTR=-\$137K. This transaction is not reflected in other sections of the R-Docs where an FY00 total is shown.

Project 4758 Page 1 of 7 Pages Exhibit R-2 (PE 0305160F)

	RDT&E BUDGET ITEM JUSTIFICAT	TION SHEET (R-2 Exhib	oit)	date Jun	e 2001					
	GET ACTIVITY Operational System Development	PE NUMBER AND TITLE 0305160F Defense I	Meteorologic	al Satellite Progr	PROJECT am 4758					
(U)	A. Mission Description Continued				·					
(U)	FY 2001 (\$ in Thousands)									
(U)	\$15,520 Continued system integration and test, and relat	ted support activities								
(U)	\$941 Completed Titan II integration effort	PPL II								
(U)	\$3,602 Continued EELV interface design (transition to		-t-t(C)	CD ~)						
(U) (U)	(U) \$1,678 Completed integration studies and test analysis to retrofit DMSP satellites with solid state recorders (SSRs) (U) \$3,398 Continued SSMIS calibration and validation									
(U)	\$25,139 Total									
(0)	The following net transactions are not reflected in the FY01 program	total: BTR\$2 2M and SBIR\$7	86K These transa	ctions are not reflected	in other sections of					
	the R-Docs where an FY01 total is shown.	total. BTR = $\psi 2.2W$ and BBIR = $\psi 7$	ook. These transa	etions are not reflected	in other sections of					
(U)	FY 2002 (\$ in Thousands)									
(U)	\$9,601 Continue system integration and test, and relate	ed support activities								
(U)	\$1,550 Continue EELV interface design (transition to I	EELV)								
(U)	\$1,108 Continue SSMIS calibration and validation									
(U)	\$12,259 Total									
(U)	B. Budget Activity Justification			. 11						
	This program is in Budget Activity 7, Operational Systems Developme	ent, because it supports the current of	perational DMSP of	onstellation.						
(U)	C. Program Change Summary (\$ in Thousands)	FY 2000	FY 2001	FY 2002	Total Cos					
(U)	Previous President's Budget (FY 2001 PBR)	<u>F1 2000</u> 21,207	25,372	14,934	955,279					
(U)	Appropriated Value	21,535	25,372	14,754	955,219					
(U)	Adjustments to Appropriated Value	21,333	23,372							
(0)	a. Congressional/General Reductions	-212	-178							
	b. Small Business Innovative Research	-783	2.0							
	c. Omnibus or Other Above Threshold Reprogram	-117								
	d. Below Threshold Reprogram									
	e. Rescissions	-84	-55							
(U)	Adjustments to Budget Years Since FY 2001 PBR			-2,675						
	roject 4758	Page 2 of 7 Pages		Evhihit D (2 (PE 0305160F)					

	RDT&E BU	DGET IT	TEM JUS	STIFICA	TION SI	HEET (R	R-2 Exhib	oit)		DATE June 20	01
	GET ACTIVITY					NUMBER AN					PROJECT
<u>07 · </u>	Operational System D	<u>Developm</u>	ent		03	05160F	Defense I	<u>/leteorolo</u>	gical Sa	tellite Program	4758
(U)	C. Program Change Summa	ary (\$ in Tho	usands) Con	tinued			FY 2000	FY 2001	I	FY 2002	Total Cost
(U)	Current Budget Submit/FY 20	002 PBR					20,339	25,139	-	12,259	936,598
(U)	Significant Program Changes: Funding: FY02-07 adjusted downward due to a Zero Based Transfer of mission sensor support and services and calibration/validation funding from RDT&E to Procurement to appropriately align funding with the work being performed. Schedule: Satellite Launch (F-16) rescheduled from 23 Jan 01 to not earlier than 14 Nov 01.										&E to Missile
	Technical: None	-16) reschedu	ied from 23.	ian or to not	earner than	14 NOV 01.					
(U)	D. Other Program Funding S	Summary (\$	in Thousand	ls)							
, ,		FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to	Total Cost
		<u>Actual</u>	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	<u>Complete</u>	
(U)	AF RDT&E										
(U)	Other APPN										
(U)	Missile Procurement/PE 0305160F (Budget Activity 5, Line Item P-27)	39,694	67,952	47,580	62,058	52,235	52,576	47,610	48,359	77,200	2,422,664
(U)	Other Procurement/PE 0305160F	1,991	0	0	0	0	0	0	0	0	264,657
	(Line Item P-63) FY01 and out funds transferred to PE 0305111F for DMSP tactical terminals. Related RDT&E: PE 0603434F, National Polar-ope 0305160N, DMSP (provide				tellite Systen	ı (NPOESS))				
P	roject 4758				Page 3 o	f 7 Pages				Exhibit R-2 (PE	0305160F)

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)											June 2001			
	GET ACTIVITY - Operational System Development		PE NUME 03051			se Me	teorol	ogical S	atell	lite Pro	gram	PRO. 475		
(U)	E. Acquisition Strategy Support and services contracts for the spacecraft, sensors, ground system decisions remain. The program is focused on successful completion of & Validation contracts, plus contractor support for spacecraft, sensors, a	curren	t contracts	s, awai	d of follo	ow-on S _l								
(U)	F. Schedule Profile						• • • • •							
		1	FY 2000		4 1		<u>FY 2001</u>		4	1	FY 20		4	
	Satellite Launch (F-15)	1	2	3	4	1	2	3	4	1	2	3	4	
(U) (U)	Satellite Launch (F-15) Satellite Launch (F-16)	·								X				
(U)	Sensor Support/Services Contract Consolidation			*						71				
(U)	Tactical Terminal Program funding transferred to AF Weather Agency					*								
	* = Completed event													
	X = Planned event													
	Proiect 4758	Page	e 4 of 7 Pa	ges						Exhibit	R-2 (PE	03051	160F)	

	RDT&E PROG	RAM ELE	MENT/P	ROJECT C	OST BI	REAKDO	WN (R-3)		DATE	June 20	01
	GET ACTIVITY					ER AND TITLE		-		PROJECT	
07 -	Operational System	Developme	nt		030516	60F Defens	se Meteor	ological S	Satellite Pr	rogram	4758
(U)	A. Project Cost Breakdown	(\$ in Thousand	ds)								
	-						FY 2	<u>2000</u>	FY 200	<u>01</u>	FY 2002
(U)	Launch Vehicle Transition*						4.	,904	4,54	-3	1,550
(U)	Spacecraft Integration and Te	est**					4.	,698	8,36	57	1,458
(U)	Calibration/Validation***						1.	,439	4,76	55	2,726
(U)	Algorithm Development							436	21	0	233
(U)	MARK IVB/STT Enhancement	ents					1,	,421		0	0
(U)	Systems Engineering Support	t					4.	,701	3,77	7	3,350
(U)	Program Management Suppo	rt					2.	,740	3,47	7	2,942
(U)	Total						20.	,339	25,13	9	12,259
(U)	studies/analysis for DMSP F- *** Calibration/Validation for SSMIS. DMSP F-16, schedu operationally useful data. B. Budget Acquisition Histo	unding increases led to launch in	early FY02, v	will carry the first	SSMIS. Cr						
(U)	Performing Organizations:										
(-)	Contractor or	Contract									
	Government	Method/Type	Award or	Performing	Project						
	Performing	or Funding	Obligation	Activity	Office	Total Prior	Budget	Budget	Budget	Budget to	<u>Total</u>
	Activity	Vehicle	Date	EAC	EAC	to FY 2000	FY 2000	FY 2001	FY 2002	Complete	
	Product Development Organiz										
	Lockheed -Martin	SS/CPAF	Apr 92	3,764	3,764	3,764				0	3,764
	Lockheed-Martin (EELV Int	SS/CPAF	May 97	17,867	17,867	1,871	3,368	4,070	3,008	5,550	· ·
	Design)		•								
	Northrop-Grummn (SSR&OLS)	SS/CPAF	May 95	7,412	7,412	5,509	225	1,678		0	7,412
l P	roject 4758			Pac	ge 5 of 7 Pag	es			Exhib	it R-3 (PE	0305160F)

	RDT&E PROG	RAM ELE	MENT/P	ROJECT (COST BRE	EAKDOV	WN (R-3)		DATE J	une 200)1
	ET ACTIVITY Operational System D	Developme	nt		PE NUMBER 0305160		se Meteoro	ological S	Satellite Pro		PROJECT 4758
U)]	Performing Organizations C	ontinued:									
]	Product Development Organiz	ations									
	Northrop-Grummn (CSS&S)		May 00	13,901	13,901			5,547	1,618	6,736	13,90
]	Lockheed-Martin	C/CPAF	Oct 88	39,513	39,513	39,513				0	39,51
]	Harris (SSMIS/STT SW)	C/CPAF	Jun 94	8,617	8,617	7,196	1,421			0	8,61
	Det 11/GSA (Mark IVB P3I)		Jan 97	2,986	2,986	2,986	,			0	2,98
	SMC/CL (Titan) TII & EELV		Oct 94	5,018	5,018	3,089	988	941		0	5,01
	Msn Unique)			,	,	,					,
]	1 /	SS/CPAF	May 00	472	472		472			0	472
	· · · · · · · · · · · · · · · · · · ·	SS/CPAF	Jul 00	545	545		545				54:
	Studies & Services)	22/01/11	001	0.0	0.0		0.0				
	The state of the s	SS/CPAF	May 92	2,530	2,530	2,530				0	2,53
	3	C/CPAF/FFP	Mar 89	85,979	85,979	85,979				0	85,97
	Aerojet (SSM/TW/IS S&S &		May 98	2,183	2,183	1,635	548			0	2,18
	Model + SSMIS)	22/01/11	1.14.	2,100	2,100	1,000	2.0			Ü	- ,10
	*	SS/CPFF	May 96	236	236	227	9			0	230
	(SSMI Spt & Svc)		<i>y</i> > -								
		MIPR/PD	Oct 95			4,625	589	75		0	5,28
		MIPR/Var	Oct 95			6,537	3,023	3,850	1,321	400	15,13
		MIPR/Var	Oct 95			2,624	859	55	1,821	0	3,53
	SMC (Det 3 SSSG/NPOESS)		Dec 95			2,506	0.57			0	2,50
	SMC/CC	1 01 2/1/22 10	200)0			_,,,,,		1,000		Ü	1,00
		MIPR/Var	Oct 96			200	420	200		0	82
	NOAA	1,111 10, 101	36170			200	.20	34		Ü	3
	Other	Various				2,587	431	435	20		3,47
	Historical Satellite Blocks	Various				583,786	131	155	20		583,78
j	and the blocks	. 41740				202,700					203,70
Dr	oject 4758			D _o	ge 6 of 7 Pages				Evhihit	D-3 (DE ()305160F)

	RDT&E PROC	SRAM ELE	MENT/F	ROJEC	T COST BR	EAKDO	WN (R-3)		DATE	DATE June 2001			
	GET ACTIVITY Operational System	Developme	nt			R AND TITLE DF Defens	se Meteor	ological S	atellite Program		PROJECT 4758		
(U)	Performing Organizations (Support and Management Or										,		
	FFRDC PRC/BD Systems	MORD C/CPAF	Oct 95 Aug 95			17,019 5,792	3,481 1,220	2,647 1,130	2,051 1,299	4,560 6,996	29,758 16,437		
	Program Mgmt Litigation Support		Ü			15,167 1,809	2,740	3,477	2,942	17,180 0	41,506 1,809		
	Other Historical Satellite Blocks	Various Various	Jul 91			1,958 38,530				0	1,958 38,530		
	Test and Evaluation Organiza NONE	ations											
(U)	Government Furnished Pro	operty: Contract											
	Item	Method/Type or Funding	Award or Obligation	<u>Delivery</u>		Total Prior	Dudgat	Dudget	<u>Budget</u>	Budget to	<u>Total</u>		
	Description	<u>Vehicle</u>	<u>Date</u>	<u>Delivery</u> <u>Date</u>		to FY 2000	Budget FY 2000	Budget FY 2001	<u>Budget</u> <u>FY 2002</u>	<u>Complete</u>			
	Product Development Proper NONE	ty											
	Support and Management Pro NONE	operty											
	Test and Evaluation Property NONE												
	Subtotals					Total Prior to FY 2000	Budget FY 2000	Budget FY 2001	Budget FY 2002	Budget to Complete			
	Subtotal Product Developmen					757,164	12,898	17,885	5,967	12,686	806,600		
	Subtotal Support and Manage Subtotal Test and Evaluation					80,275	7,441	7,254	6,292	28,736	129,998		
	Total Project					837,439	20,339	25,139	12,259	41,422	936,598		
P	roject 4758				Page 7 of 7 Page	S			Exhib	it R-3 (PE ()305160F)		