	RDT&E BUDGET ITEM		February 2003								
	T ACTIVITY  Operational System Development				UMBER ANI 15160F		Meteoro	ological	Satellite	Program	PROJECT <b>4758</b>
	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
4758	DMSP Program	12,838	3,816	918	0	0	0	0	0	0	897,479
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	(

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 nautical miles (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). DMSP F-15 was the first Block 5D3 satellite (with legacy sensors) and was launched on a Titan-II booster in Dec 99. DMSP F-16 is the first 'full-up' Block 5D3 (spacecraft bus plus sensors) and will be the last DMSP to launch on a Titan-II booster. The F-16 launch is currently planned for May 03. The remaining DMSP satellites, F-17 through F-20, are all manifested to launch on an Evolved Expendable Launch Vehicle (EELV) booster.

#### (U) FY 2002 (\$ in Thousands)

(U) \$0 Accomplishments/Planned Program

(U) \$9,009 Continued system integration and test, studies, and related support activities

(U) \$2,351 Continued EELV interface design (transition to EELV)
(U) \$1,478 Continued 5D3 Sensor calibration and validation

(U) \$12,838 Total

#### (U) FY 2003 (\$ in Thousands)

(U) \$0 Accomplishments/Planned Program

(U) \$2,121 Continue system integration and test, studies, and related support activities

(U) \$335 Complete EELV interface design (transition to EELV)

(U) \$1,360 Continue 5D3 Sensor calibration and validation

(U) \$3,816 Total

Project 4758 Page 1 of 6 Pages Exhibit R-2 (PE 0305160F)

	RDT&E BUDGET ITEM JUSTIFICATION	SHEET (R-2 Exhib	oit)	DATE <b>February</b>	2003
	GET ACTIVITY Operational System Development	PE NUMBER AND TITLE 0305160F Defense	Meteorological	Satellite Program	PROJECT <b>4758</b>
(U)	A. Mission Description Continued				
(U) (U) (U) (U) (U) (U)	FY 2004 (\$ in Thousands)  \$0	est			
(U)	B. Budget Activity Justification This program is in Budget Activity 7, Operational Systems Development, be	cause it supports the current of	perational DMSP cor	nstellation.	
(U)	C. Program Change Summary (\$ in Thousands)				
(U) (U)	Previous President's Budget Appropriated Value	<u>FY 2002</u> 12,901 12,259	<u>FY 2003</u> 3,875 3,875	<u>FY 2004</u> 2,223	<u>Total Cost</u> 897,617
(U)	Adjustments to Appropriated Value a. Congressional/General Reductions b. Small Business Innovative Research	-451	-42		-105
	c. Omnibus or Other Above Threshold Reprogram d. Below Threshold Reprogram e. Rescissions	1,030	-17		-17
(U) (U)	Adjustments to Budget Years Since FY 2003 PBR Current Budget Submit/FY 2004 PBR	12,838	3,816	-1,305 918	-16 897,479
(U)	Significant Program Changes: Funding: \$1.030M required in FY2002 for completion of the design effort to	accommodate the change in b	pooster from Titan II	to EELV.	
	\$7.751M of FY04-07 RDT&E funds for system integration, test, and studies the correct appropriation consistent with the intended use of the funds.	Zero Balance Transferred to M	Missile Procurement	(Project 23DMSP) to align	the funds in
	Schedule: Next satellite launch (F-16) planned for May 03 (previously sched	uled for 2QFY02). Schedule	slip was caused by m	utiple technical problems	with the
Р	roject 4758 Page	e 2 of 6 Pages		Exhibit R-2 (PE	0305160F)

	RDT&E BU	DGET IT	EM JUS	STIFICA	TION S	HEET (R	-2 Exhib	oit)		DATE <b>F</b> 6	bruary	2003	
•	GET ACTIVITY  Operational System D	)evelopm	ent		PE <b>0</b> 3	atellite Program		PROJ <b>475</b> 8					
(U)	C. Program Change Summa	ry (\$ in Tho	usands) Con	tinued									
(U)	Significant Program Changes satellite sensors.	Continued:											
	Technical: None												
	D. Other Program Funding S  AF RDT&E	Summary (\$ 5 FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate		st to plete	<u>To</u>	tal Cost
(U) (U) (U)	Other APPN Missile Procurement/PE 0305160F (Budget Activity 5, Line Item P-22) Related RDT&E: PE 0603434F, National Polar-OPE 0305160N, Navy Meteorology							71,413	66,257	150	,104	2,7	701,936
(U)	E. Acquisition Strategy Support and services contracts decisions remain. Production or remaining DMSP satellites.												
(U)	F. Schedule Profile				1	<u>FY 2002</u> 2. 3	4 1	<u>FY 2</u> 2		4 1	<u>FY 2</u> 9	004 3	4
(U)	F-16 Satellite Launch Completion of EELV interface F-17 Satellite Launch * = Completed event X = Planned event	design			1	2 3	4 1	1 2	X X	+ 1	2	X	4
Р	roject 4758				Page 3 o	of 6 Pages				Exhib	it R-2 (PE	03051	60F)

RDT&E PROC	WN (R-3)		DATE <b>F</b> (	2003						
BUDGET ACTIVITY  07 - Operational System	Developme	nt			ER AND TITLE  60F Defen	se Meteor	ological S	atellite P	rogram	PROJECT <b>4758</b>
(U) A. Project Cost Breakdown	ı (\$ in Thousan	ds)								
						FY ?	2002	FY 20	FY 2004	
(U) Launch Vehicle Transition						3,	,050	71	1	
(U) Spacecraft Integration and T	est					2,	,604	92	26	511
(U) Sensor Suite Calibration/Val	idation					1,	,478	1,36	50	307
(U) Systems Engineering Support	t					3,	,530	81	9	100
(U) Program Management Suppo	ort					2,	,176			
(U) Total						12,	,838	3,81	6	918
(U) B. Budget Acquisition History	ory and Plannir	g Informatio	n (\$ in Thousand	<u>s</u> )						
(U) Performing Organizations:										
Contractor or	Contract									
Government	Method/Type	Award or	<b>Performing</b>	<b>Project</b>						
<u>Performing</u>	or Funding	<b>Obligation</b>	Activity	<u>Office</u>	<b>Total Prior</b>	<b>Budget</b>	<b>Budget</b>	Budget	Budget to	<u>Total</u>
<u>Activity</u>	<u>Vehicle</u>	Date	EAC	<u>EAC</u>	to FY 2002	FY 2002	FY 2003	FY 2004	Complet	e <u>Program</u>
Product Development Organ	zations									
Lockheed -Martin	SS/CPAF	Apr 92	3,764	3,764	3,764				0	3,764
Lockheed-Martin	SS/CPAF	May 97	11,261	11,261	8,923	3,914	547	511		13,895
Northrop-Grumman (CSS&S	) SS/CPAF	May 95	12,906	12,906	11,214	1,041	714			12,969
Lockheed-Martin	C/CPAF	Oct 88	39,513	39,513	39,513				0	39,513
Harris (SSMIS/STT SW)	C/CPAF	Jun 94	8,617	8,617	8,617				0	8,617
Det 11/GSA (Mark IVB P3I)	MIPR	Jan 97	2,986	2,986	2,986				0	2,986
Lockheed-Martin (Titan II	SS/CPAF	Oct 98	5,268	5,268	5,268	99	93		0	5,460
Msn Unique Studies)										
Boeing (EELV Msn Unique	SS/CPAF	Jul 00	1,717	1,717	1,017	600	283		0	1,900
Studies & Services)										
Aerojet	SS/CPAF	May 92	2,530	2,530	2,530				0	2,530
Aerojet	C/CPAF/FFP	Mar 89	85,979	85,979	85,979				0	85,979
Aerojet (SSM/TW/IS S&S & Model + SSMIS)	SS/CPAF	May 98	2,183	2,183	2,183				C	2,183
Project 4758 Page 4 of 6 Pages Exhibit R-3 (PE 030										0305160F)

	RDT&E PROG	RAM ELE	MENT/P	ROJECT	COST BF	REAKDO	WN (R-3)		DATE <b>F</b> e	ebruary 2	2003
=	GET ACTIVITY	Davidania	4			ER AND TITLE	Mataau	alasiaal C	Satallita D		PROJECT
07 -	Operational System I	Developme	nt		030516	0F Defens	se Meteor	ological S	satellite Pr	ogram	4758
(U)	Performing Organizations Organ										
	Raytheon, formerly Hughes (SSMI Spt & Svc)	SS/CPFF	May 96	236	236	236				0	236
	AFRL	MIPR/PD	Oct 95			5,289				0	5,289
	NRL	MIPR/Var	Oct 95			12,821	500	250		0	13,571
	APL	MIPR/Var	Oct 95			3,538				0	3,538
	SMC (Det 3 SSSG/NPOESS)	FCA/MIPR	Dec 95			2,506				0	2,506
	Sandia	MIPR/Var	Oct 96			820				0	820
	NOAA					34				0	34
	Other	Various				4,609	978	1,110	307	0	7,004
	Historical Satellite Blocks	Various				583,786					583,786
	Support and Management Org	ganizations									
	FFRDC	AF 277	Dec 00			23,147	2,157	819			26,123
	PRC/BD Systems/TASS	C/CPAF	Apr 01			8,142	1,373			0	9,515
	Program Mgmt		-			20,688	2,176			0	22,864
	Litigation Support					1,809				0	1,809
	Other	Various	Jul 91			1,958			100	0	2,058
	Historical Satellite Blocks	Various				38,530				0	38,530
	Test and Evaluation Organiza	tions									·
	NONE										
(U)	<b>Government Furnished Pro</b>	perty:									
		Contract									
		Method/Type	Award or								
	<u>Item</u>	or Funding	Obligation	<u>Delivery</u>		Total Prior	<b>Budget</b>	Budget	Budget	Budget to	<u>Total</u>
	Description	Vehicle	Date	Date		to FY 2002	FY 2002	FY 2003	FY 2004	Complete	
	Product Development Propert NONE	¥									
	Support and Management Pro NONE	perty									
Р	roject 4758			P	age 5 of 6 Pag	es			Exhibi	it R-3 (PE (	0305160F)

RDT&E PROGRAM ELEMENT/PR	DATE <b>F</b> (	DATE <b>February 2003</b>				
BUDGET ACTIVITY  07 - Operational System Development	PE NUMBER AND TITLE 0305160F Defens	se Meteor	ological S	atellite P		PROJECT 4758
(U) Government Furnished Property Continued: Test and Evaluation Property NONE						
	<u>Total Prior</u>	<u>Budget</u>	<b>Budget</b>	<u>Budget</u>	Budget to	<u>Tota</u>
Subtotals	<u>to FY 2002</u>	FY 2002	FY 2003	FY 2004	<u>Complete</u>	<u>Prograi</u>
Subtotal Product Development	785,633	7,132	2,997	818	0	796,580
Subtotal Support and Management Subtotal Test and Evaluation	94,274	5,706	819	100	0	100,899
Total Project	879,907	12,838	3,816	918	0	897,479
Project 4758	Page 6 of 6 Pages			Exhib	it R-3 (PE 03	305160F)