RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE	February 2003			
	T ACTIVITY System Development and Demons	tration (SDD)		10MBER AND 13840F	о тітье Global B	roadcas	t Servic	e (GBS)		PROJECT 4887		
	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		
4887	Global Broadcast Service (GBS)	34,035	22,253	38,147	33,490	9,720	2,446	2,230	5,497	0	147,818		
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	(
(U) <u>A</u>	A. Mission Description												

Global Broadcast Service will provide DoD with efficient, high data rate broadcast of information provided by many distributed information sources to dispersed warfighters who will receive the broadcast directly on small, inexpensive user terminals in accordance with the GBS Operational Requirements Document (ORD) validated by the Joint Requirements Oversight Council in Apr 1995. GBS Broadcast data includes imagery, logistics and weather data, maps, operational orders, and video. GBS space segment includes packages on Navy operational satellites UFO 8, 9, and 10 providing near-worldwide service, augmention by commercial leased Ku-band packages, and throughput on future wideband satellites. GBS Broadcast Management and Terminal segments include uplink sites and receive equipment which integrate with Service fixed- and tactical-network equipment through standard commercial interfaces. Service production Receive Suite and integration into service networks are funded in other PEs.

(U) FY 2002 (\$ in Thousands)

(U)	\$0	Accomplishments/Planned Program
(U)	\$25,807	Continued System Development and Test

(U) \$2,668 Continued Phase 2 Government System Integration

(U) \$2,480 Continued Program Support

(U) \$1,200 Completed Fielding RDT&E Receive Suites (U) \$1,880 Continued System Test & Evaluation Support

(U) \$34,035 Total

(U) FY 2003 (\$ in Thousands)

(U) \$0 Accomplishments/Planned Program (U) \$16,589 Continue System Development and Test

(U) \$2,183 Continue Phase 2 Government System Integration

(U) \$2,290 Continue Program Support

(U) \$1,191 Continue System Test & Evaluation Support

(U) \$22,253 Total

Project 4887 Page 1 of 5 Pages Exhibit R-2 (PE 0603840F)

	RDT&E BUDGET ITEM JUSTIFICATION	_{DATE} Febru	ary 2003		
=	ET ACTIVITY System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0603840F Global Br	oadcast Servi	ce (GBS)	PROJECT 4887
(U)	A. Mission Description Continued				
(U) (U) (U) (U) (U) (U) (U)	FY 2004 (\$ in Thousands) \$0 Accomplishments/Planned Program \$25,702 Continue System Development and Test \$7,766 Continue Phase 2 Government System Integration \$3,271 Continue Program Office and other related support act \$1,408 Continue System Test & Evaluation Support \$38,147 Total	tivities			
(U)	B. Budget Activity Justification Funding is in Budget Activity 5, System Development and Demonstration, si	nce program is fielding pre-pr	oduction equipment	·	
(U) (U) (U) (U)	C. Program Change Summary (\$ in Thousands) Previous President's Budget Appropriated Value Adjustments to Appropriated Value a. Congressional/General Reductions b. Small Business Innovative Research c. Omnibus or Other Above Threshold Reprogram d. Below Threshold Reprogram	FY 2002 34,202 34,544 -509	FY 2003 22,589 22,589 -239 -97	<u>FY 2004</u> 16,792	<u>Total Cost</u> 133,697
(U) (U)	e. Rescissions Adjustments to Budget Years Since FY 2003 PBR Current Budget Submit/FY 2004 PBR	34,035	22,253	21,355 38,147	147,818
(U)	Significant Program Changes: The GBS Program has experienced several programmatic problems that resu schedule outlined in the Dec 99 Selected Acquisition Report (SAR). The properational Capability (IOC) 1 capabilities and incremental delivery of IOC Protocol (IP) architecture that will facilitate satisfaction of IOC 2 and 3 requite Internet Protocol. The GBS program received \$7,000 DERF funding in Internet Protocol.	ogram plans to have a new base 2 and 3 by 4QFY05. FY04 are irements. Program will continuous	eline approved durind FY05 funding wa	ng 2QFY03 to reflect of the sincreased to incorporate increased to incorporate	completion of Initial rate an Internet
Р	roject 4887 Page	e 2 of 5 Pages		Exhibit R-2	(PE 0603840F)

DATE RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) February 2003 PE NUMBER AND TITLE BUDGET ACTIVITY **PROJECT** 05 - System Development and Demonstration (SDD) 0603840F Global Broadcast Service (GBS) 4887 (U) D. Other Program Funding Summary (\$ in Thousands) FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 Cost to **Total Cost Estimate** Actual **Estimate Estimate Estimate Estimate Estimate Estimate Complete** (U) AF RDT&E (U) Other APPN Note: All the Services and several DoD agencies have many programs which interface with or support GBS. Examples include: Defense Information System Network (DISN); DISA Information Dissemination Management Program; ARPA Battlefield Awareness and Data Dissemination (BADD) Advanced Concept Tactical Demonstration (ACTD); Navy UFO Program; Army Ground Terminal Programs; Navy SATCOM Ship Terminal Program; and Air Force MILSATCOM Terminals (PE 0303601F): AF GBS Receive Terminals (Project 836780, line P-67, PE 0303601F, Milstar Satellite Comm Sys, Other Procurement; AF Ground Multiband Terminal (GMT) Development; and AF Wideband Terminal (AWT) Development. (U) E. Acquisition Strategy The acquisition strategy has been revised to a spiral development/incremental build approach using Integrated Product Development (IPD)/Integrated Product Team (IPT) approach. Program will maintain a single integration contractor for the GBS Phase 2 system while incorporating cross program/system IPTs for total system performance. (U) F. Schedule Profile (U) Previous effort performed under PE0603854F (U) IOC 1 X (U)IOC 2 and 3 (4QFY05) * = Completed Event; X = Planned Event Note: Declaration of IOC 1 is awaiting validation of ORD satisfication by operational testing. Meanwhile the system continues to support operational missions in both CENTCOM and EUCOM. Project 4887 Page 3 of 5 Pages Exhibit R-2 (PE 0603840F)

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE F e	DATE February 2003		
	ET ACTIVITY			PE NUMBER AND TITLE						•	
05 -	System Developmen	t and Demo	nstration	(SDD)	060384	40F Globa	I Broadca	st Service	(GBS)		4887
(U)	A. Project Cost Breakdown	(\$ in Thousand	ds)								
` ′	•						FY:	2002	FY 200	03	FY 2004
(U)	Continue System Developme	nt and Test					25.	,807	16,58	9	25,702
(U)	Continue Phase 2 Governmen	nt System Integr	ation				2	,668	2,18	3	7,766
(U)	Continue Program Support						2	,480	2,29	0	3,271
(U)	Continue Fielding Activities						1.	,200		0	0
(U)	Continue System Test & Eval	luation Support	t				1.	,880	1,19	1	1,408
(U)	Total						34	,035	22,25	3	38,147
(U)	B. Budget Acquisition Histo	ry and Plannin	g Informatio	on (\$ in Thousan	<u>ds</u>)						
(U)	Performing Organizations:										
, ,	Contractor or	Contract									
	Government	Method/Type	Award or	Performing	Project						
	Performing	or Funding	Obligation	Activity	<u>Office</u>	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	<u>Program</u>
	Product Development Organiz	zations									
	Raytheon System Corp	CPAF	18 Nov 97	104,886	104,886	0	25,807	16,589	25,702	34,345	102,443
	Phase 2 Government System	Various	Various		23,442	0	2,668	2,183	7,766	10,718	23,335
	Integration										
	Support and Management Org	ganizations									
	Program Support - Various		Various	N/A	N/A	0	2,480	2,290	3,271	5,271	13,312
	Fielding - Various			N/A	N/A	0	1,200				1,200
	Sustainment (Vendor TBD)			N/A	N/A	0	0				0
	Test and Evaluation Organiza	<u>tions</u>									
	Various		Various	N/A	N/A	0	1,880	1,191	1,408	3,049	7,528
(U)	Government Furnished Pro	perty:									
		Contract									
		Method/Type	Award or								
	<u>Item</u>	or Funding	Obligation	<u>Delivery</u>		Total Prior	Budget	Budget	<u>Budget</u>	Budget to	<u>Total</u>
	Description	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>		to FY 2002	FY 2002	FY 2003	FY 2004	Complete	<u>Program</u>
Pi	Project 4887 Page 4 of 5 Pages Exhibit R-3 (PE 0603840)603840F)		

	RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE	PATE February 2003		
BUDGET ACTIVITY 05 - System Development and Demonstration (SDD)				PE NUME	PE NUMBER AND TITLE 0603840F Global Broadcast Service (P	PROJECT 4887	
	Item Description Product Development Proper Support and Management Pro Test and Evaluation Property Subtotals Subtotal Product Developme Subtotal Support and Manage Subtotal Test and Evaluation Total Project	operty Continue Contract Method/Type or Funding Vehicle ty operty int ement		Delivery Date	[06038	Total Prior to FY 2002 Total Prior to FY 2002 O O O O	Budget FY 2002 Budget FY 2002 28,475 3,680 1,880 34,035	Budget FY 2003 Budget FY 2003 18,772 2,290 1,191 22,253	Budget FY 2004 Budget FY 2004 33,468 3,271 1,408 38,147	Budget to Complete Budget to Complete 45,063 5,271 3,049 53,383	Total Program 125,778 14,512 7,528 147,818
F	Project 4887				Page 5 of 5 Pa	ges			Exhib	it R-3 (PE 06)	03840F)