PE NUMBER: 0207581F PE TITLE: JOINT STARS

	RDT&E BUDGET ITEM	JUSTI	FICATI	ON SH	EET (R	-2 Exhi	bit)		DATE	Februar	y 2003
	T ACTIVITY  Operational System Development			=	10MBER AND 17581F	D TITLE JOINT S	TARS				
	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
	Total Program Element (PE) Cost	147,682	60,317	58,431	89,481	128,765	79,524	71,874	59,290	Continuing	TBD
0003	JSTARS	74,512	60,317	58,431	89,481	128,765	79,524	71,874	59,290	Continuing	TBD
4995	Multi-Platform RTIP	73,170	0	0	0	0	0	0	0	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

### (U) A. Mission Description

This program element funds the Joint Surveillance Target Attack Radar System (Joint STARS).

The Joint STARS program produces the world's premier airborne ground surveillance platform, to meet both Air Force and Army requirements. The 707-based E-8C Joint STARS aircraft provides near-real-time surveillance and targeting information on moving and stationary targets, slowly moving rotary- and fixed-wing aircraft, and rotating antennae. Joint STARS provides target information for pairing direct attack aircraft and standoff weapons against selected targets. The system is capable of being cued by other reconnaissance, surveillance, and target acquisition systems and is able to respond rapidly to worldwide contingencies. This capability enables commanders to effectively make and execute battle decisions.

Until FY03, this program element also funded the Multi-Platform Radar Technology Insertion Program (MP-RTIP). Beginning in FY03, MP-RTIP funding is identified under PE 27449F.

### (U) B. Budget Activity Justification

This program is in Budget Activity 7, Operational Systems Development, due to efforts supporting a fielded, post MS III operational weapon system. These funds are required to meet the requirements, capabilities and efforts further defined in the 'Mission Description' section of the following R-2A.

Page 1 of 13 Pages

Exhibit R-2 (PE 0207581F)

	RDT&E BUDGET ITEM JUSTIFIC	DATE <b>Febru</b>	DATE February 2003			
_	GET ACTIVITY  Operational System Development	PE NUMBER AND TITLE 0207581F JOINT ST	ARS			
(U)	C. Program Change Summary (\$ in Thousands)					
		FY 2002	FY 2003	<u>FY 2004</u>	Total Cos	
(U)	Previous President's Budget	152,728	55,515	112,207	TBD	
(U)	Appropriated Value	155,359	55,515			
(U)	Adjustments to Appropriated Value					
	a. Congressional/General Reductions	-2,631	-561			
	b. Small Business Innovative Research	-4,244				
	c. Omnibus or Other Above Threshold Reprogram		-548			
	d. Below Threshold Reprogram	-79				
	e. Rescissions	-723	-89			
(U)	Adjustments to Budget Years Since FY 2003 PBR		6,000	-53,776	TBD	
(U)	Current Budget Submit/FY 2004 PBR	147,682	60,317	58,431	TBI	

FY04: GATM and Attack Support Upgrade (ASU) shifted one year to the right to support higher AF priorities. Also, the majority of ASU funding was transferred to the centrally controlled Tactical Datalink program element (#0207448F).

Page 2 of 13 Pages

RDT&E BUDGET ITEM	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)										
BUDGET ACTIVITY  07 - Operational System Development			PE N <b>020</b>			PROJECT 0003					
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	
0003 JSTARS	74,512	60,317	58,431	89,481	128,765	79,524	71,874	59,290	Continuing	TBD	

In FY2003 the Air Force established a program element for the Multi-Platform Radar Technology Insertion Program (MP-RTIP). Effective with FY03 funding, MP-RTIP efforts was transferred to PE 27449F, Multi-Sensor Command & Control Constellation, from PE 27581F Joint STARS, BPAC 674995.

#### (U) A. Mission Description

The Joint Surveillance Target Attack Radar System (Joint STARS) program produces the world's premier airborne ground surveillance platform, to meet both Air Force and Army requirements. The 707-based E-8C Joint STARS aircraft provides near-real-time surveillance and targeting information on moving and stationary ground targets, slowly moving rotary and fixed wing aircraft, and rotating antennae. Joint STARS provides target information for pairing direct attack aircraft and standoff weapons against selected targets. The system is capable of being cued by other reconnaissance, surveillance, and target acquisition systems and is able to respond rapidly to worldwide contingencies. This capability enables commanders to effectively make and execute battle decisions.

The program enhances the warfighter's capability to achieve the Global Strike Task Force vision. It develops advanced battle management aids and information fusion to enable rapid decisions in tracking and killing time critical targets and achieving a predictive battlespace awareness environment. Concept exploration, program definition/risk reduction efforts, and various studies support continuous improvements in C2ISR capabilities. These efforts include, but are not limited to, manned and unmanned platforms, space data links and advanced BMC3 concepts. They also include ISR Constellation, Air Moving Target Indicator (AMTI), Ground Moving Target Indicator (GMTI) and other large airborne platform integration efforts, which will provide greater mission capability, higher mission reliability, and maximum aircraft availability.

#### (U) <u>FY 2002 (\$ in Thousands)</u>

Project 0003

\ - /		
(U)	\$14,446	Continue Training & Support Systems Development (Support & Training System [STS] Phase I)
(U)	\$20,795	Continue SATCOM, Connectivity, Attack Support Upgrade (ASU) efforts, etc.
(U)	\$27,053	Continue test efforts (for example: Joint Test Force (JTF), JSTARS Extended Test Support (JETS) contract, range support, support of T-3 test aircraft, and test labs)
(U)	\$5,599	Reduced Vertical Separation Minimum (RVSM)
(U)	\$3,742	Indirect SPO Operations support
(U)	\$2,877	Kill Chain/Spiral Development (for example: Air Tasking Order (ATO) Parser, Protection Level 2 (PL2), Network-Centric Collaborative Targeting (NCCT), Advanced Development activities, etc.)
(U)	\$74,512	Total

Exhibit R-2A (PE 0207581F

	RDT&	E BUDGET ITEM JUSTIFICATION	SHEET (R-2A Exhibit)	DATE <b>February 2003</b>
•	GET ACTIVITY  Operational Sy	stem Development	PE NUMBER AND TITLE 0207581F JOINT STARS	PROJECT <b>0003</b>
(U)	A. Mission Descript	ion Continued		
(U)	FY 2003 (\$ in Thous	ands)		
(U)	\$15,881	Complete SATCOM EMD effort, Continue ASU sup	pport, connectivity efforts, etc.	
(U)	\$28,067	Continue test effort (for example: JTF, JETS, range s	upport, support of T-3 and test labs)	
(U)	\$1,209	Kill Chain Enhancements/Spiral Development (for ex	ample: PL2, NCCT, special studies, advanced develope	ment activities, etc.).
(U)	\$5,640	Airborne Battlefield Command & Control Center (AI	BCCC) migration to Joint STARS	
(U)	\$3,520	Indirect SPO Operations support		
(U)	\$3,500	Joint Services Work Station (JSWS) (Congressional		
(U)	\$2,500	Global Air Traffic Management (GATM) (Congression	onal add)	
(U)	\$60,317	Total		
(U)	FY 2004 (\$ in Thous	ands)		
(U)	\$7,900	Continue Training & Support Systems development (	STS Phase II)	
(U)	\$50	Continue ASU support, connectivity efforts, etc. (con	upletion will defer until ASU Phase II in FY05)	
(U)	\$37,180	, <u> </u>	upport, support of T-3, test labs, and T-3 Wing Structur	re Improvement Program)
(U)	\$3,136	Indirect SPO Operations support		
(U)	\$766	GATM contract preparation efforts		
(U)	\$8,100	Continue ABCCC migration to Joint STARS		
(U)	\$1,299		e: PL2, NCCT, special studies, advanced development	activities, Advanced Radar Modes,
		Automatic Target Recognition, Improved Tracking T	Cools, etc.).	
(U)	\$58,431	Total		
(U)	B. Project Change S	<u>ummary</u>		
	This program is in Bu	ndget Activity 7 - Operational System Development. In	itial operational capability was achieved in Dec 97. De	evelopmental work continues on
	advanced planning ac	tivities and systems upgrades, as well as systems integrated	ration and interoperability efforts.	-
	- Attack Support Up:	grade will enable JSTARS to datalink targeting data dir	ectly to attack fighters via Link 16	
	- STS Phase I develo	ped and delivered a new training simulator in the new	Block 20 configuration	

- WSIP accounts for FY04 increase in test cost. It is a one-time wing structure upgrade of the dedicated test aircraft. The whole fleet will receive the same mod.

   ABCCC refers to the retirement of the EC-130E ABCCC fleet and the transfer of 10 ABCCC functions to JSTARS--the required modifications are mission
- management software and an additional satcom radio

- STS Phase II will develop a Block 20 upgrade for the original training simulator

Project 0003 Page 4 of 13 Pages Exhibit R-2A (PE 0207581F)

	RDT&E BUI	OGET IT	EM JUS	TIFICAT	ION SH	EET (R-	2A Exhil	bit)		DATE <b>Feb</b> i	ruary 20	03
	GET ACTIVITY - Operational System D				PE	NUMBER AND		•	•		F	PROJECT
(U)	C. Other Program Funding S	Summary (\$ FY 2002 Actual	in Thousand FY 2003 Estimate	<u>Is)</u> <u>FY 2004</u> <u>Estimate</u>	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	<u>Cost t</u> Comple	_	Total Cost
(U)	Aircraft Procurement, AF, BP10 (PE 27581F)	295,237	268,578	0	0	0	0	0	0	<u>compre</u>	<u></u>	TBD
	Modifications, BP11 (PE 27581F)	69,194	18,598	29,043	45,608	16,254	23,463	55,356	32,634			TBD
(U) (U)	Spares, BP16 (PE 27581F) Quantity, Joint STARS E-8C Aircraft Proc.	26,364	1,810 1	15,699	2,804	582	1,099	1,262	1,354			TBD
(U)	D. Acquisition Strategy Joint STARS Low Rate Initial in FY93, and continued at 2 E- and 1 E-8C in FY02, and 1 E-8	8Cs per year										
(U)	E. Schedule Profile					EW 2002		EWA	002		EW 2004	
						FY 2002 2 3	4 1	<u>FY 2</u> 2	3 4	1	FY 2004 2 3	
(U) (U)	RVSM Contract Award Support & Training Sys. (STS) trainer	Phase I Con	npleteinstal	l Blk 20		*	*					
(U)	SATCOM Development Comp Flight Crew Training System ( STS Phase II Contract Award-	FCTS) Deliv						X X			X	
(U) (U)	ABCCC Contract Award ASU Contract Award * Denotes completed event X Denotes planned event	-develop Blo	ck 20 trainer					X X			Α	
Р	Project 0003					13 Pages				Exhibit R-	2A (PE 02	07581F)

	RDT&E PROG	RAM ELE	EMENT/P	ROJECT C	OST BI	REAKDO	WN (R-3)		DATE <b>F</b>	ebruary 2	2003
	SET ACTIVITY  Operational System	Developme	ent		-	ER AND TITLE  31F JOINT	STARS		•	•	PROJECT 0003
(U)	A. Project Cost Breakdown	(\$ in Thousan	<u>ds</u> )								
							<u>FY </u>		FY 20		FY 2004
(U)	JSWS							0	3,5	00	0
(U)	Training & Support Systems							446		0	7,900
(U)	SATCOM, ASU, Connectivity	ty, etc.						795	15,8		50
(U)	Test Efforts						27,	053	28,0		37,180
(U)	GATM							0	2,5		766
(U)	Indirect SPO Support							,742	3,5		3,136
(U)	Kill Chain Enhancements/Sp							,877	1,2	09	1,299
(U)	Reduced Vertical Separation	Minimum (RV	SM)				5.	,599		0	0
(U)	ABCCC Migration							0	5,6		8,100
(U)	Total						74.	512	60,3	17	58,431
(U)	B. Budget Acquisition Histo	ory and Plannii	ng Informatio	n (\$ in Thousand	ds)						
(U)	<b>Performing Organizations:</b>										
	Contractor or	Contract									
	Government	Method/Type	Award or	<u>Performing</u>	<b>Project</b>						
	Performing	or Funding	<b>Obligation</b>	<u>Activity</u>	<u>Office</u>	Total Prior	<b>Budget</b>	<u>Budget</u>	<b>Budget</b>	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	Complete	<u>Program</u>
	Product Development Organi										
	NG -STS Phase I/II	FFP	Dec 00	N/A	N/A	0	14,446	0	7,900	Continuing	TBD
	NG - SATCOM EMD	CPFF	May 97	36,574	36,574	8,370	20,795	7,409	0	0	36,574
	NG - ASU	TBD	Dec 02	N/A	N/A	0	0	8,472	50	Continuing	TBD
	NG - GATM	T&M/CPFF	Mar 01	134,421	4,847	0	0	2,500	766	Continuing	
	NG - Kill Chain/Spiral	Various	Various	N/A	N/A	0	2,877	1,209	1,299	Continuing	TBD
	NG - Multi-Platform Radar	CPFF	May 97	22,372	22,372	22,372	0	0	0	0	22,372
	Tech. Insertion Prog.										
	NG - Other Dev. Efforts	Various	Various	N/A	N/A	2,339,634	0	3,500	0	0	2,343,134
	NLX Corp - Flight Crew Training Sys	FFP	Sep 00	N/A	N/A	0	0	0	0	0	0
Pı	roject 0003			Pag	e 6 of 13 Pa	iges			Exhil	oit R-3 (PE (	)207581F)

	RDT&E PROG	RAM ELE	MENT/F	ROJECT (	COST B	REAKDO	WN (R-3)	)	DATE <b>F</b>	February 2003			
	GET ACTIVITY  Operational System	Developme	nt		-	BER AND TITLE  81F JOINT	STARS		•		PROJECT <b>0003</b>		
( <b>U</b> )	Performing Organizations Organic Development Organi												
	NG - RVSM	CPFF	Sep 02	5,599	5,599	0	5,599	0		0	5,599		
	ABCCC Migration  ** Northrop Grumman	Various	Various	N/A	N/A	0	0	5,640	8,100	0	13,740		
	Support and Management Or	ganizations											
	Indirect SPO Ops Support		N/A	N/A	N/A	0	3,742	3,520	3,136	Continuing	TBD		
	Test and Evaluation Organiza	•											
	NG - E-8C JSTARS Ext. Test Spt (JETS)	t SS/FFP/CPFF	Aug 96	N/A	N/A	37,364	20,026	20,647	27,341	Continuing	TBD		
	Horizons Tech., Inc.	T&M	Various	N/A	N/A	36,136	4,909	4,821	5,500	Continuing	TBD		
	JTF Range/Support	SubAllotment	N/A	N/A	N/A	52,559	2,118	2,599	4,339	Continuing	TBD		
(U)	Item Description Product Development Propert N/A Support and Management Pro N/A Test and Evaluation Property N/A	Contract Method/Type or Funding Vehicle	Award or Obligation Date	<u>Delivery</u> <u>Date</u>		Total Prior to FY 2002	Budget FY 2002	Budget FY 2003	Budget FY 2004	Budget to Complete	<u>Total</u> <u>Program</u>		
	Subtotals Subtotal Product Developmer Subtotal Support and Manage Subtotal Test and Evaluation Total Project					Total Prior to FY 2002 2,370,376 0 126,059 2,496,435	Budget FY 2002 43,717 3,742 27,053 74,512	Budget FY 2003 28,730 3,520 28,067 60,317	Budget FY 2004 18,115 3,136 37,180 58,431	Budget to Complete TBD TBD TBD TBD	Total Program TBD TBD TBD TBD		
Р	roject 0003			Pa	ge 7 of 13 Pa	nges			Exhil	oit R-3 (PE 0	207581F)		

RDT&E BUDGET ITEM	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)										
BUDGET ACTIVITY  07 - Operational System Development			PE N <b>020</b>			PROJECT <b>4995</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	
4995 Multi-Platform RTIP	73,170	0	0	0	0	0	0	0	Continuing	TBD	

<sup>1.</sup> In FY 2002, Project Number 674995, Multi-Platform RTIP was established within PE 0207581F, Joint STARS, using existing RTIP funds from PE 0207581F, Joint STARS, Project Number 670003, JSTARS, to better track program funding. Commencing in FY 2003, funding for this continuing project transferred to PE 0207449F Multi-sensor Command and Control Constellation (MC2C), Project 675065 Sensors, reflecting decision to host MP-RTIP radar on 767-400ER platform.

#### (U) A. Mission Description

The Multi-Platform Radar Technology Insertion Program (MP-RTIP) program is the result of a restructuring of the Joint STARS Radar Technology Insertion Program (RTIP), formerly a Pre-Planned Product Improvement to Joint STARS. MP-RTIP will deliver enhanced Wide Area Surveillance (WAS) system capabilities to the warfighter which include an advanced Ground Moving Target Indicator (GMTI) capability and a focused Air Moving Target Indicator (AMTI) for a Cruise Missile Defense (CMD) capability. MP-RTIP also provides for a robust Global Hawk reconnaissance capability, and enables the NATO Alliance Ground Surveillance (AGS) program. This WAS system capability will allow commanders to conduct wide area surveillance to detect, locate, classify, track, and monitor moving targets and provide target information to assigned direct aerospace and ground weapons systems. Wide-Area surveillance is required to monitor the movement and disposition of enemy forces and for use in resource prioritization, force allocation and Intelligence Preparation of the Battlefield at Army, Navy and Air Force Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) elements. To that end, MP-RTIP will include design of a modular, scalable two-dimensional active electronically scanned array (2D-AESA) radar, and development, fabrication, and test of MP-RTIP radars suitable for future integration on various airborne platforms. Specifically, this modular, scalable radar, when integrated on a 767-400ER, must deliver mission capability as reflected in the validated RTIP Operational Requirements Document (ORD) by 2012. Although the users' need date for an RTIP capability remains 2010; the user has accepted the 2012 delivery date. The radar, when integrated on an unmanned air vehicle, will provide enhanced Global Hawk (GH) capability. The MP-RTIP program plan no longer includes the fabrication of a radar for the NATO Alliance Ground Surveillance (AGS) (formerly known as the NATAR radar) due to a lack of a NATO AGS platform decision. The MP-RTIP program continues to support the NATO AGS radar definition effort and early decision analysis activities. The MP-RTIP program includes concept exploration, technology development, system development/demonstration, and spiral development efforts supporting continuous improvements and implementation of Command & Control, Intelligence, Surveillance, and Reconnaissance (C2ISR) capabilities to enable a joint global strike task force. These efforts include but are not limited to manned and unmanned platforms, space, data links, combat identification, and advanced battle management command, control, and communications (BMC3) concepts.

Project 4995 Page 8 of 13 Pages Exhibit R-2A (PE 0207581F)

	RD1	T&E BUDGET ITEM JUSTII	FICATION SHEET (R-2A Exhibit)	DATE February 2003
=	GET ACTIVITY - Operational	System Development	PE NUMBER AND TITLE 0207581F JOINT STARS	PROJECT <b>4995</b>
( <b>U</b> )	A. Mission Desc	ription Continued		
(U)	FY 2002 (\$ in Th	nousands)		
(U)	\$0	Accomplishments/Planned Programs		
(U)	\$69,644	Continue Multi-Platform RTIP radar Alliance Ground Surveillance (AGS)	design and development for Wide Area Surveillance (WA).	S), Global Hawk target platforms, and NATO
(U)	\$1,760	Continue Test Efforts (includes Oper	rator-In-The-Loop [OITL]; Joint Test Force Support; AFOT	EC Support)
(U)	\$1,166	Continue SPO Operations		
(U) (U)	\$600 \$73,170	supporting continuous improvements capabilities to enable a joint global st	lopmentincludes concept exploration, program definition/s and implementation of Command & Control, Intelligence, trike task force. These efforts include but are not limited to anced battle management command, control, and communicate	Surveillance, and Reconnaissance (C2ISR) manned and unmanned platforms, space, data
(U)	FY 2003 (\$ in Th	<del>_</del>		
(U)	\$0	Accomplishments/Planned Programs		' (MCCC) P ' (C750C5 G G G')
(U)	\$0	decision to host MP-RTIP on a 767-4	0207449F, Multi-sensor Command and Control Constellation 400ER.	ion (MC2C), Project 6/5065 Sensors, reflecting
(U)	\$0	Total		
(U)	FY 2004 (\$ in Th	nousands)		
(U)	\$0	Accomplishments/Planned Programs		
(U)	\$0	Continuing activity transferred to PE decision to host MP-RTIP on a 767-4	0207449F, Multi-sensor Command and Control Constellation 400ER.	ion (MC2C), Project 675065 Sensors, reflecting
(U)	\$0	Total		
(U)	B. Project Chan	ge Summary		
	Technology Inser for application to	tion Program (MP-RTIP) was created fron	tem Development. In an Acquisition Decision Memorandu in the Radar Technology Insertion Program (RTIP) to levera ms. The MP-RTIP program is a result of a restructuring of t	ge the RTIP Wide Area Surveillance radar design
P	Project 4995		Page 9 of 13 Pages	Exhibit R-2A (PE 0207581F)

#### DATE RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit) February 2003 PE NUMBER AND TITLE BUDGET ACTIVITY **PROJECT** 07 - Operational System Development 0207581F JOINT STARS 4995 (U) B. Project Change Summary Continued Specific Changes: FY 2002: Decrease of \$4.326M reflects reallocation of prior year poor exection reduction to this Project (original reduction was not split between projects), Small Business Innovative Research reductions, and BTRs. FY 2003: Continuing activity in FY 2003 for this project transferred to PE 0207449F Multi-sensor Command and Control Constellation (MC2C), Project 675065 Sensors, reflecting decision to host MP-RTIP radar on 767-400ER platform. Transferred funding increased by \$10,325 for additional risk reduction testing during radar design. C. Other Program Funding Summary (\$ in Thousands) FY 2002 FY 2004 FY 2003 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 **Total Cost** Cost to Actual Estimate Estimate Estimate Estimate Estimate Estimate Estimate Complete (U) AF RDT&E (U) PE 0305206F/Project 4819 9,000 10,000 7,000 2,000 0 0 0 0 28,000 0 0 0 (U) PE 0305205F/Project 4799 0 17,000 40,000 13,000 1,000 0 71,000 Other APPN (U) D. Acquisition Strategy The MP-RTIP program is currently planning for five (one test and four operational) manned WAS aircraft\*\*, as well as a number of Global Hawk air vehicles, to receive the 2D-AESA radars. Low Rate Initial Production (LRIP) quantity is one sensor kit for the WAS aircraft, and seven sensors for Global Hawk. Exit criteria will be established at MS B that must be satisfied prior to proceeding with LRIP. All other procurement activities for all platforms will be formally updated at MS B. \*\*Note: WAS aircraft numbers based on decision to host MP-RTIP sensor on a 767-400ER. In FY2003 activity transfers to Program Element 0207449F, Multi-sensor Command and Control Constellation (MC2C). (U) E. Schedule Profile 4 (U) RADAR REQUIREMENTS REVIEW RADAR FUNCTIONAL REVIEW (U) MP-RTIP PLATFORM DECISION \* Denotes completed event X Denotes planned event

Exhibit R-2A (PE 0207581F)

Project 4995

	RDT&E BUDGET ITEM JUSTIFICATI	-								DATE February 2003			
	GET ACTIVITY - Operational System Development				ND TITLE  JOINT	STAF	RS					PROJ <b>499</b>	
(U)	E. Schedule Profile Continued	1	<u>FY</u> 2	2002 3	4	1	<u>FY :</u> 2	2 <u>003</u> 3	4	1	<u>FY</u> 2	2004 3	4
	** Note: FY 2003 activity transfers to PE 0207449F, Multi-sensor CorMP-RTIP on a 767-400ER platform.	mmano	d and Cor	ntrol Co	nstellatio	n (MC20	C); Proje	ct 675065	Sensor	s, reflect	ting dec	ision to h	ost
F	Project 4995	Page	11 of 13	Pages					Е	xhibit F	R-2A (P	E 02075	81F)

	RDT&E PROG	RAM ELE	MENT/P	ROJECT C	OST B	REAKDO'	WN (R-3)		DATE <b>F</b>	ebruary 20	003
	GET ACTIVITY  Operational System	Developme	nt		=	BER AND TITLE  81F JOINT	STARS		•		PROJECT <b>4995</b>
(U)	A. Project Cost Breakdown	ı (\$ in Thousan	ds)								
								<u>2002</u>	FY 20	<del></del>	FY 2004
(U)	MP-RTIP							,644		0	0
(U)	Test Efforts (OITL, JTF, AF	OTEC)						,760		0	0
(U)	SPO Operations							,166		0	0
(U)	Future Studies/Spiral Develo	pment						600		0	0
(U)	Total MP-RTIP's funding was a pa							,170		0	0
(U)	Start. Commencing in FY 20 Sensors, reflecting decision t <b>B. Budget Acquisition Histo</b>	to host MP-RTIF	on a 767-400	ER platform.		viuiti-sciisoi Co	mmanu and C	onuoi Conste	mation (MC.	20 <i>)</i> , F10Ject 07	, 5005,
, ,	-	y und i lamin	<u> </u>	π (ψ III Tilousuiic	<u> </u>						
( <b>U</b> )	<u>Performing Organizations:</u>	_									
	Contractor or	Contract									
	Government	Method/Type	Award or	Performing	<u>Project</u>				<b>D</b> 1	<b>5</b> 1	
	Performing	or Funding	<u>Obligation</u>	<u>Activity</u>	Office EAG	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>	<u>Program</u>
	Product Development Organi		DEC 00	NT/A	NT/A	126 225	60.644	0	0	Cantingina	TBD
	Northrop Grumman-Multi Platform-Radar Technology	CPAF	DEC 00	N/A	N/A	136,325	69,644	0	0	Continuing	IBD
	Insertion Program (RTIP										
	funding prior to FY02										
	reported in Project 670003,										
	same PE)										
	MIT/Lincoln Labs	Various	Various	N/A	N/A	0	600	0	0	Continuing	TBD
	Support and Management Or		. arrous	1 1/1 1	1 1/ 1 1	Ü	000	V	J	Johnmanig	100
	Program Office Support	N/A	N/A	N/A	N/A	0	1,166	0	0	Continuing	TBD
	. д 2 2			- 111	- W	v	-,200	v	, , ,		122
Р	roject 4995			Page	12 of 13 Pa	ages			Exhil	oit R-3 (PE 02	207581F)

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										DATE February 2003		
BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT			
07 -	- Operational System Development			0207581F JOINT STARS					4995			
(U)	Performing Organization	s Continued:										
	Test and Evaluation Organ	izations										
	OITL	Allotment	N/A	N/A	N/A	0	1,000	0	0	Continuing	TBD	
	JTF Support	Allotment	N/A	N/A	N/A	0	60	0	0	Continuing	TBD	
	AFOTEC Support	Allotment	N/A	N/A	N/A	0	700	0	0	Continuing	TBD	
	** Note: FY 2003 activity	transfers to PE 02	07449F, Mult	i-sensor Comr	nand and Contro	ol Constellation	n (MC2C); Pro	oject 675065 S	Sensors, refle	ecting decision	to host	
	MP-RTIP on a 767-400ER platform.											
(U)	<b>Government Furnished P</b>	Property:										
(0)	Government i urmsneu i	Contract										
		Method/Type	Award or									
	Item	or Funding	<u>Obligation</u>	<u>Delivery</u>		Total Prior	Budget	Budget	Budget	Budget to	Total	
	Description	Vehicle	Date	<u>Date</u>		to FY 2002	FY 2002	FY 2003	FY 2004	Complete	Program	
	Product Development Prop		Dute	<u> Dato</u>		<u>to 1 1 2002</u>	112002	112005	1 1 200 1	Complete	riogram	
	N/A	N/A	N/A	N/A		0	0	0	0	Continuing	TBD	
	Support and Management		14/21	14/11		Ü	O .	O .	V	Continuing	100	
	N/A	N/A	N/A	N/A		0	0	0	0	Continuing	TBD	
	Test and Evaluation Proper		1,711	1,712		v	•	0	· ·	commung	122	
	N/A	N/A	N/A	N/A		0	0	0	0	Continuing	TBD	
	1771	1 1/1 1	14/11	17/11		Total Prior	Budget	Budget	Budget	Budget to	Total	
	Subtotals					to FY 2002	FY 2002	FY 2003	FY 2004	Complete	Program	
	Subtotal Product Developm	nent				136,325	70,244	0	0	TBD	TBD	
	Subtotal Support and Mana					0	1,166	0	0	TBD	TBD	
	Subtotal Test and Evaluation					0	1,760	0	0	TBD	TBD	
	Total Project	<b></b>				136,325	73,170	0	0	TBD	TBD	
	Total Troject					150,525	73,170	Ü	· ·	122	155	
_												
Р	Project 4995		Page 13 of 13 Pages					Exhibit R-3 (PE 0207581F)				