PE NUMBER: 0603850F PE TITLE: Integrated Broadcast Service (DEM/VAL)

Ex		DATE February 2005								
JDGET ACTIVITY 3 Advanced Technology Developme	nt (ATD)				BER AND TITLE	ed Broadcas	st Service (D	EM/VAL)		
Cost (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total
	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
Total Program Element (PE) Cost	8.241	2.268	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	T
51 Blue Force Tracking FY2004, Project Number 635151, Joint B	8.241	2.268	0.000	0.000	0.000	0.000	0.000	0.000	<u> </u>	T
 E0207028F, Joint Expeditionary Force Expervice (IBS)", this project does not use IBS A. Mission Description and Budget II Joint Blue Force Situational Awareness Computers, Intelligence, Surveillance, and Coalition) forces in the assigned ar force situational awareness to ensure program JBFSA ACTD - This JBFSA ACTD, a application exists today), data interoper Common Operating Picture (COP) and of current JBFSA devices into the JBFS (GCCS) family of systems (FOS) COP (SATCOM), Global Broadcast Service architecture including aircraft, unmann benchmark/set the stage to evaluate mu be validated before transitioning to the 	beriment (JEF2 funding. Des tem Justificat s (JBFSA) Obj and Reconnais eas of respons rosecution of t continuation of rability and co User Defined SA architectur and select tac (GBS), Integr ed aerial vehic ilti-level secur	K), Project Nu ccription of the ion jectives - Prov ssance (C4ISR ibility (AORs he right target of an ACTD st mmon operati Operating Pic e, disseminate tical level disp ated Broadcas cles (UAVs) a ity challenges	mber 674991, e IBS program (ide, through a c) capability to); increase con s and the reduct tarted in CY20 (ng displays. The cture (UDOP) e and display a play devices, i st Service (IBS) and aerostats, f and the disserver	Joint Distribu- is provided in collection of f detect, track, nbat effectiven ction of fratric 003, will focus Fasks include to capabilities for consistent blu dentification of S), Tactical net ield an enhance mination of sel	tted Engineeri n PE 63850F, systems, a glo identify and a ness by impro- cide. on the integration the development of additional J tworks, etc.), red Mission M	ation of dispatent, integration of dispatent, integration of dispatent, integration of BFSA data dispatent, data dispatent construction of lanagement C	hough this PE ity 4. ive Command ersary, neutral ound time sen rate systems (n, validation, g. Specific su Global Comma ssemination p line-of-sight (enter (MMC)	, is entitled "In I, Control, Con and friendly (asitive targetin no single syste and transition b-areas includ and and Contra aths (satellite of (LOS) receive: capability, an	mmunications, (e.g., US, Joint g (TST) and b em or mission of web-enable e the integratio ol Systems communicatio rs into the JBF d serve as the	dcast , lue ed on SA
 Family of Interoperable Operational Picand thus the Common operational and the Oversight Council (JROC) directed " databases" in JROC Memorandum 156 Budget Decision, FIOP, PE 0207443F FIOP JBFSA - Many DoD systems problue force data) set of data to the warfig web-based blue force data dissemination Single Integrated Ground Picture (SIGP This program is in Budget Activity 3, A 	tactical picture provide an all -02. Ultimate Project # 6751 vide data rega ghter. This tas on network ser P) programs an	es consistent the source picture ly, the efforts 37 is terminate rding friendly sk will perform vice. This tas and the JBFSA	aroughout the e of the Battles described here ted for FY06-2 forces. There n the systems k is being led ACTD. Note lopment, since	Services and a space containing in will lead to 11. e is no single s engineering, a by the Army a : Per OSD Bu e it develops an	at all echelons ng actionable o the underpin ystem or miss rchitecture de and is being de adget Decision nd demonstrat	s of Combat O decision quali nings of Netw sion application evelopment an one in coordin h, the SIGP pro-	perations. The ity information work Centric Control of the provide d integration a mation with the ogram is also	e Joint Requin n through the Operational Wa es a totally inte activities leadi e Blue Force T cancelled for	rements fusion of exist arfare. Per OS egrated (i.e. al ng to a secure 'racking and FY06-11.	ing D I
			R-1 Shopping L	ist - Item No. 34	1-1 of 34-4	_			Exhibit R-2 (P	E 0603850
										_ 0000000
				559						2 000000

	Exhibit R-2, RDT&E Bu	udget Item Justification		DATE February 2005				
	T ACTIVITY vanced Technology Development (ATD)	PE NUMBER AND TITLE 0603850F Integrated Broad	dcast Service (DE	· M/VAL)	•			
(U) <u>B</u>	. Program Change Summary (\$ in Millions)							
		<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>			
(U) Pi	revious President's Budget	8.464	2.294	0.000	0.000			
(U) C	urrent PBR/President's Budget	8.241	2.268	0.000	0.000			
(U) T	otal Adjustments	-0.223	-0.026					
(U) C	ongressional Program Reductions							
C	ongressional Rescissions		-0.026					
С	ongressional Increases							
R	eprogrammings	-0.223						
	BIR/STTR Transfer							
(U) <u>S</u> i	gnificant Program Changes:							
	ot Applicable.							

	Exhibit R-2	2a, RDT&E	Project J	lustificatio	on			DATE	February 2	2005
BUDGET ACTIVITY 03 Advanced Technology Developme	nt (ATD)			060385	BER AND TITLE 60F Integrate e (DEM/VAL)	ed Broadcas		OJECT NUMBE		
Cost (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total
	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
5151 Blue Force Tracking	8.241	2.268	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles In FY2004, Project Number 635151, Joint E	0	0	0	0	0	0	0			
 PE0207028F, Joint Expeditionary Force Exp Service (IBS)", this project does not use IBS (U) A. Mission Description and Budget I Joint Blue Force Situational Awareness Computers, Intelligence, Surveillance, and Coalition) forces in the assigned at force situational awareness to ensure p JBFSA ACTD - This JBFSA ACTD, a application exists today), data interope Common Operating Picture (COP) and of current JBFSA devices into the JBF (GCCS) family of systems (FOS) COF (SATCOM), Global Broadcast Service architecture including aircraft, unmant benchmark/set the stage to evaluate mu be validated before transitioning to the Family of Interoperable Operational Pi and thus the Common operational and Oversight Council (JROC) directed " databases" in JROC Memorandum 156 Budget Decision, FIOP, PE 0207443F FIOP JBFSA - Many DoD systems pro blue force data) set of data to the warfi web-based blue force data dissemination Single Integrated Ground Picture (SIG 	b funding. Des tem Justificat s (JBFSA) Obj and Reconnais reas of respons rosecution of t continuation of rability and co User Defined SA architectur and select tac (GBS), Integr ed aerial vehic lti-level secur services for su ctures (FIOP) tactical picture provide an all i-02. Ultimate Project # 6751 ovide data rega ghter. This tas on network ser	cription of the ion ectives - Provessance (C4ISR ibility (AORs he right target of an ACTD st mmon operating Pice e, disseminate tical level disp ated Broadcass eles (UAVs) and ity challenges istainment and - FIOP is a pro- se consistent the source picture ly, the efforts 37 is terminate rding friendly sk will perform vice. This tas	e IBS program ide, through a 2) capability to 3); increase con s and the redu- carted in CY20 ng displays. T cture (UDOP) and display a olay devices, i th Service (IBS nd aerostats, f and the disses and the disses d extended use ogram designed roughout the of the Battles described here described here and for FY06- forces. There in the systems k is being led	a collection of o detect, track, mbat effective action of fratri- 003, will focus Tasks include capabilities for a consistent bla dentification of S), Tactical ne field an enhand mination of se er evaluation. ed to impleme Services and space containi ein will lead to 11. e is no single s engineering, a by the Army a	n PE 63850F, systems, a glo identify and a ness by impro- cide. s on the integr the developmo- or Joint Blue F ue force pictur of additional J tworks, etc.), i ced Mission M lect JBFSA da nt web-based at all echelons ng actionable o the underpin	Budget Activ obally respons assess all adve wing air-to-gr ation of dispa ent, integratio force Tracking re within the O BFSA data di- integration of lanagement C ata to Coalitio technologies i of Combat O decision qual nings of Netwo sion applicatio velopment an one in coordir	ity 4. ive Command ersary, neutral ound time sen rate systems (n, validation, g. Specific su Global Comma ssemination p line-of-sight (enter (MMC) n COP device into Systems of perations. The ity information vork Centric Con that provide d integration a nation with the	l, Control, Co and friendly isitive targetin no single syst and transition b-areas includ and and Contr aths (satellite (LOS) receive capability, an es. All candid of Record, ma is Joint Requi n through the Operational W es a totally int activities lead e Blue Force T	mmunications (e.g., US, Join og (TST) and b em or mission of web-enable le the integrati ol Systems communication rs into the JBI d serve as the ate solutions v king their data rements fusion of exist arfare. Per OS egrated (i.e. all ing to a secure fracking and	, t, olue ed on ons FSA vill ting SD
Project 5151			R-1 Shopping I	<u>ist - Item No. 3-</u> 561	4-3 of 34-4				Exhibit R-2a (P	E 0603850F)

· ·))					F		Eebruary 2			
Advanced Technology Development (ATD) 0603850F Integrated Broadcast 5151 Service (DEM/VAL)								I NUMBER AND TITLE ue Force Tracking			
, and Procedures n of BFT Device ent Office, inclu	es, Training, an ding financial a	d Purchase of S and demonstrat	SATCOM air t		0.5 0.2 5.6	500 230 536	0.556 0.262 0.780 0.074 0.000 2.268	0.000	0.00		
Summary (\$ in N FY 2004 Actual	<u>Millions)</u> FY 2005 Estimate	<u>FY 2006</u> Estimate	<u>FY 2007</u> Estimate	<u>FY 2008</u> Estimate	<u>FY 2009</u> Estimate	<u>FY 2010</u> Estimate	<u>FY 2011</u> Estimate	<u>Cost to</u> <u>Complete</u>	<u>Fotal Co</u>		
	on of BFT Device nent Office, inclu itecture Develop Summary (\$ in N FY 2004 <u>Actual</u>	on of BFT Devices, Training, an nent Office, including financial a itecture Development and Interc Summary (\$ in Millions) FY 2004 FY 2005 Actual Estimate	on of BFT Devices, Training, and Purchase of S nent Office, including financial and demonstrat itecture Development and Interoperability enha Summary (\$ in Millions) FY 2004 FY 2005 FY 2006 Actual Estimate Estimate	nent Office, including financial and demonstration supervision itecture Development and Interoperability enhancements Summary (\$ in Millions) FY 2004 FY 2005 FY 2006 FY 2007 Actual Estimate Estimate Estimate	on of BFT Devices, Training, and Purchase of SATCOM air time nent Office, including financial and demonstration supervision itecture Development and Interoperability enhancements Summary (\$ in Millions) FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 Actual Estimate Estimate Estimate Estimate	on of BFT Devices, Training, and Purchase of SATCOM air time 0.5 nent Office, including financial and demonstration supervision 0.2 itecture Development and Interoperability enhancements 5.6 8.2 Summary (\$ in Millions) FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 Actual Estimate Estimate Estimate Estimate Estimate	on of BFT Devices, Training, and Purchase of SATCOM air time0.500nent Office, including financial and demonstration supervision0.230itecture Development and Interoperability enhancements5.6368.2418.241Summary (\$ in Millions)FY 2005FY 2004FY 2005FY 2006FY 2005FY 2007FY 2008FY 2009FY 2010	on of BFT Devices, Training, and Purchase of SATCOM air time 0.500 nent Office, including financial and demonstration supervision 0.230 0.074 itecture Development and Interoperability enhancements 5.636 0.000 8.241 2.268 Summary (\$ in Millions) FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 Actual Estimate Estimate Estimate Estimate Estimate Estimate Estimate	on of BFT Devices, Training, and Purchase of SATCOM air time 0.500 nent Office, including financial and demonstration supervision itecture Development and Interoperability enhancements 5.636 0.000 8.241 2.268 0.000 Summary (\$ in Millions) FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 Cost to Actual Estimate Estimate Estimate Estimate Estimate Estimate Estimate Complete		

PE NUMBER: 0603850F PE TITLE: Integrated Broadcast Service (DEM/VAL)

	ExI	nibit R-2, I	RDT&E Bu	ıdget Item	Justificat	ion			DATE	February 2	2005
	ET ACTIVITY dvanced Component Developmen	t and Proto	types (ACDa	&P)		BER AND TITLE		t Service (D		<u> </u>	
	Cost (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total
		Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
1770	Total Program Element (PE) Cost	15.980	23.653	15.344	20.026	21.016	21.113	21.324	21.505	Continuing	TB
4778	Integrated Broadcast Service A. Mission Description and Budget It	15.980	23.653	15.344	20.026	21.016	21.113	21.324	21.505	Continuing	TB
	A common TIN, where out-of-theater (will receive and inject data into the CIB).	apport the geo des spiral deve 3) on Ultra Hi t (LOS) broad from each the and local) use for producers	graphic Comb elopment of: gh Frequency least using the ater and then ers not directly s without acce	(UHF) satelli Wideband No integrates this receiving the ss to the theat	te communica etworking Wa data into a we broadcast car er CIB.	t to validated tions a militar veform (WNV orldwide pictu n receive the in	warfighter rec y standard De V) and Joint T re available to nformation br	uirements. T emand Assign actical Radio all network- oadcast on the	his request fun ed Multiple A System (JTRS connected use e CIB. Additio	nds the IBS ccess (DAMA S). ers. onally, the TI	A) N
((GIG) networks. This program is in budget activity 4 bec B. Program Change Summary (\$ in N	ause it include	-			-	-				
						<u>FY 200</u>		<u>FY 2005</u>		2006	<u>FY 2007</u>
	Previous President's Budget					16.22		23.927		0.155	20.814
	Current PBR/President's Budget					15.98		23.653	1:	5.344	20.026
	Total Adjustments Congressional Program Reductions					-0.24	+9	-0.274			
(Congressional Program Reductions Congressional Rescissions Congressional Increases							-0.274			
U)	Reprogrammings SBIR/STTR Transfer <u>Significant Program Changes:</u> (N/A)					-0.24	19				
	< ' · · · /			R-1 Shopping L	<u>.ist - Item No. 50</u> 703)-2 of 50-8				Exhibit R-2 (P	E 0603850F

	Ε	Exhibit R-2	2a, RDT&E	Project J	ustificatio	on			DATE	February	2005
	ET ACTIVITY Ivanced Component Developme	nt and Proto	types (ACD	&P)	060385	BER AND TITLE 50F Integrate e (DEM/VAL)	ed Broadcas		DJECT NUMBE		t Service
	Cost (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total
		Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
4778	Integrated Broadcast Service	15.980	23.653	15.344	20.026	21.016	21.113	21.324	21.505	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		
7 i: i: ((s - c - - v v	A. Mission Description and Budget In The Integrated Broadcast Service (IBS) Intelligence and information. It also pr is continually refined by data provided 4) Theater Interface Nodes (TINs) to sign system as described above, which inclu- A Common Interactive Broadcast (CI compliant waveform and a Line of Sigl A centralized GINS that receives data A regional TIN, where out-of-theater will receive and inject data into the CIF A Common Message Format (CMF) f GIG) networks.) fulfills the w ovides target to by strategic, o support the geo ides spiral dev B) on Ultra H ht (LOS) broad from each the (and local) use B for producer	arfighter's req racking data to perational and ographic Com elopment of: igh Frequency dcast using the eater and then ers not directly s without acce	o support thre tactical sense batant Comma (UHF) satellie Wideband N integrates this y receiving the ss to the theat	at avoidance, ors. IBS inclu anders; all bui ite communica etworking Wa data into a w broadcast ca er CIB.	targeting, forc ides a Global I lt to validated ations a militan aveform (WNV orldwide pictu n receive the i	e protection, a IBS Network S warfighter red ry standard De W) and Joint T ure available t information br	and situationa Server (GINS) quirements. T emand Assign Factical Radio to all network- toadcast on the	l awareness.), an alternate his request fu ed Multiple A System (JTR connected use e CIB. Additi	This informat GINS, and for nds the IBS access (DAM, S). ers. onally, the TI	tion bur A) N
	This program is in budget activity 4 bea B. Accomplishments/Planned Progra			ing and valida	ting the use o	f technologies	to create an o <u>FY 200</u>	-	egrated broad	cast service. <u>FY 2006</u>	<u>FY 2007</u>
t	Continue systems engineering, includin through the Joint Broadcast Configurat Simulation Based Acquisition (SBA) to	tion Control B		•	•	-	1.6	54	1.427	1.700	1.700
(U) (Continue the Phase II/Engineering, Ma	anufacturing, a	nd Developm	ent of the GIN	IS and TINs		6.12	24 1	5.801	8.644	12.426
(U) (Continue Common Message Format (C	CMF) develop	ment				1.72	25	1.025	1.025	1.025
	Satellite Communications (SATCOM)			-			2.4		0.750	1.200	0.700
(Joint Tactical Radio System (JTRS) M (MATRIX) Reformatter	odular Advan	ced TRanslati	on and Interch	ange with XN	ΛL	1.40	00	1.800	0.000	1.400
· ·	Continue Test & Evaluation						1.02		1.000	0.925	0.925
	Maintain a Program Management Offic	ce, including p	orogram super	vision, finance	e and acquisit	ion strategy	1.6	00	1.850	1.850	1.850
	execution. Total Cost						15.98	80 2	23.653	15.344	20.026
Proje	ct 4778			R-1 Shopping L	ist - Item No. 5	0-3 of 50-8				Exhibit R-2a (F	PE 0603850F)

	Exhibi	t R-2a, RD ⁻	T&E Projec	ct Justific	ation			DATE	February 20	005
BUDGET ACTIVITY 04 Advanced Component Dev	velopment and I	Prototypes (/	ACD&P)	060	NUMBER AND TIT 13850F Integra 1vice (DEM/VA	ated Broadca		PROJECT NUMBE		Service
(U) <u>C. Other Program Funding</u>	Summary (\$ in N	<u>(Iillions)</u>								
	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	Cost to T	otal Cost
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	Estimate	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	Complete ¹	
(U) OPAF/PE0305179F	7.178	11.600	11.200	11.900	12.300	12.600	12.800	13.000	Continuing	TBD
(U) O&M/PE0305179F	18.221	15.430	11.700	12.500	13.200	13.100	13.400	13.500	Continuing	TBD

(U) D. Acquisition Strategy

IBS uses an evolutionary acquisition approach with a Program Definition/Risk Reduction phase (Spiral 1), followed by Engineering, Manufacturing, and Development (EMD) phase (Spiral 2-4), with full and open competition.

Project 4778

	Exhib	it R-3, RD	T&E Proj	ect Co	st Ana	lysis					DATI		ary 200	5
UDGET ACTIVITY 4 Advanced Component Develop	ment and	Prototypes	(ACD&P)		060	IUMBER A 3850F In vice (DE	tegrate	d Broade	cast			MBER AND T ated Broa		rvice
J) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract</u> <u>Method &</u> <u>Type</u>	Performing Activity & Location	<u>Total</u> <u>Prior to FY</u> <u>2004</u> <u>Cost</u>	<u>FY 2004</u> <u>Cos</u> t	FY 2004 Award Date	<u>FY 2005</u> <u>Cos</u> t	FY 2005 Award Date	<u>FY 2006</u> <u>Cos</u> t	<u>FY 2006</u> <u>Award</u> <u>Date</u>	<u>FY 2007</u> <u>Cos</u> t	FY 2007 <u>Award</u> Date	Complete	<u>Total Cost</u>	<u>Targ</u> <u>Value o</u> <u>Contra</u>
) <u>Product Development</u> Spiral I	C/FFP	Lockheed Martin (Gaithersburg , MD)	2.000									0.000	2.000	T
Spiral I	C/FFP	BTG, Inc. (Fairfax, VA)	2.000									0.000	2.000	T
Spiral I	C/FFP	TRW, Inc. (Fairfax, VA)	2.000									0.000	2.000	Т
Spiral II	C/CPAF	BTG, Inc./Titan (Fairfax, VA)	43.708	6.124	Dec-03	15.801	Dec-04	8.644	Dec-05	12.426	Dec-06	Continuing	TBD	Т
CMF Development	C/FFP	Raytheon E-Systems/L 3Comm (Greenville, TX)	4.278									0.000	4.278	Т
CMF Development	C/FFP	SAIC (Columbia, MD)	1.120	1.725	Feb-04	1.025	Dec-04	1.025	Dec-05	1.025	Dec-06	Continuing	TBD	Т
SATCOM Broadcast Waveform Development	MIPR	Arlington, VA (Defense Information Systems		1.200	May-04			1.200	Feb-06	0.700	Feb-07	0.000	3.100	Т
SATCOM Broadcast Waveform Development	MIPR	Agency) San Diego, CA (SPAWAR		1.250	May-04	0.750	Dec-04						2.000	Т
JTRS MATRX Reformatter	C/FFP	Systems) L-3 Comm (Greenville,		1.400	May-04	1.800	Mar-05			1.400	Dec-06	0.000	4.600	Т
Subtotal Product Development Remarks:		TX)	55.106	11.699		19.376		10.869		15.551		Continuing	TBD	Т
) <u>Support</u>													0.000	Т
Subtotal Support Remarks:			0.000	0.000		0.000		0.000		0.000		0.000	0.000	1
) <u>Test & Evaluation</u> Interoperability and Developmental Testing	MIPR/Proj	JITC (Ft	0.980		Dec-03		Dec-04	0.925	Dec-05	0.925	Dec-06	Continuing	TBD	Л 02950
Project 4778			K-1 S	nopping Li	st - Item N 706	o. 50-5 of	50-8					EXNIDI	t R-3 (PE 06	03850

706

	Exhib	it R-3, RDT	&E Proje	ect Co	st Ana	lysis					DAT		ary 2005)
BUDGET ACTIVITY 04 Advanced Component Dev	velopment and	Prototypes (ACD&P)		060			d Broado	ast			MBER AND TIT ated Broad		vice
Subtotal Test & Evaluation	ect Order	Huachuca, AZ) & 46th OSS (Eglin AFB, FL)	0.980	1.027		1.000		0.925		0.925		Continuing	TBD	TBD
Remarks: (U) <u>Management</u>			0.980	1.027		1.000		0.925		0.923		Continuing	IBD	IBD
SPO/ITSP	Various	Local Area (Bedford, MA)/Washin gton DC Area	0.798	1.600	Mar-04	1.850	Mar-05	1.850	Mar-06	1.850	Mar-07	Continuing	TBD	TBD
MITRE	SS/CPFF (FFRDC)	Bedford, MA	9.882	1.654	Dec-03	1.427	Oct-04	1.700	Oct-05	1.700	Oct-06	Continuing	TBD	TBD
Subtotal Management Remarks:	(11120)		10.680	3.254		3.277		3.550		3.550		Continuing	TBD	TBD
(U) Total Cost			66.766	15.980		23.653		15.344		20.026		Continuing	TBD	TBD

Exhibit R-3 (PE 0603850F)

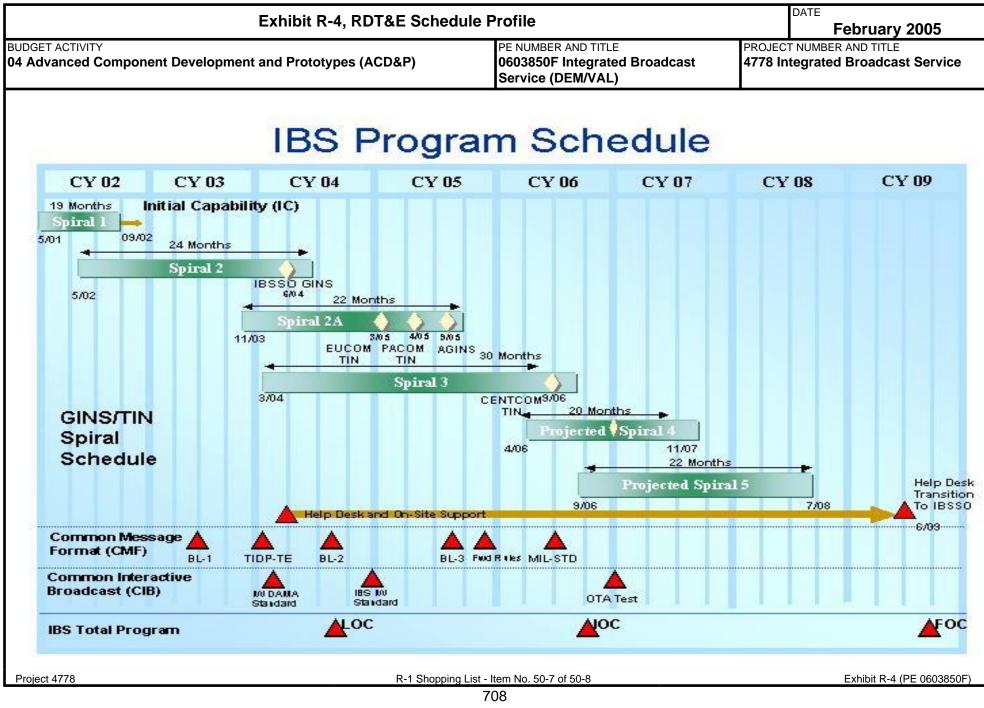


Exhibit R-4a, RDT&E Sched	DATE February 2005				
BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)	PE NUMBER AND TITLE 0603850F Integrated E Service (DEM/VAL)	0603850F Integrated Broadcast 477			
 (U) Schedule Profile (U) Spiral II Integration Test (U) Spiral II LOC (Limited Operational Capability) (U) Spiral IIa European Command (EUCOM) Factory Acceptance Test (FAT) (U) Spiral IIa BS Support Office (IBSSO) Partial FAT (U) Spiral IIa Pacific Command (PACOM) FAT (U) Spiral IIa EUCOM Site Acceptance Test (SAT) (U) Spiral IIa Alternate GINS (AGINS) FAT (U) Spiral IIa PACOM SAT (U) Spiral III Preliminary Design Review (U) Spiral III Site Survey (U) Spiral III Site Survey (U) Spiral III Site Integration and Test (U) Spiral III TINs Factory Acceptance Test (U) Spiral III Initial Operational Capability (IOC) 	Service (DEM/VAL) FY 2004 1Q 3Q 4Q	FY 2005 1Q 1Q 2Q 3Q 3Q 4Q 1Q 3Q 2Q		<u>FY 2006</u> 1Q 2Q 3Q 4Q	<u>FY 200'</u>
 (U) Spiral IV System Requirements Review (U) Spiral IV Preliminary Design Review (U) Global Interoperability Test 				4Q 2Q 3Q 4Q	