PE NUMBER: 0207253F PE TITLE: Compass Call

Exhibit R-2, RDT&E Budget Item Justification								DATE	DATE February 2004		
	JDGET ACTIVITY PE NUMBER AND TITLE 7 Operational System Development 0207253F Compass Call										
	Cost (\$ in Millions) FY 2003 FY 2004				FY 2006 FY 2007		FY 2008	FY 2009	Cost to	Total	
	Cost (\$ III MIIIIOIIS)	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete		
	Total Program Element (PE) Cost	8.786	8.706	3.990	4.845	4.983	0.000	0.000	0.000	0.00	
4804	Compass Call	8.786	8.706	3.990	4.845	4.983	0.000	0.000	0.000	0.00	
U) <u>4</u>	Mission Description and Budget Iter	n Tustification									
	A. Mission Description and Budget Iten		<u>.</u>			.					
	COMPASS CALL is the USAF's airborne										
C	communications, disrupting their ability to	o effectively con	mmand and con	ntrol forces in t	the field. Altho	ough COMPAS	S CALL has be	en a fielded, o	perational capa	bility	
5	ince 1983, it continues to evolve and ada	pt to counter the	e constantly ch	anging adversa	ary tactical com	munications. N	fost recently, th	nis is reflected	in a shift from		
	raditional military communication system	-	•		•						
2	nd Countermeasures Subsystem (TRACS	S) which represe	ents the next ev	olutionary cap	ability increase	in receiver/cou	intermeasure ef	fectivity for C	OMPASS CAL	quisition L.	
	and Countermeasures Subsystem (TRACS Activities are also required in the related a countermeasure development for the evol- ubsystems and capabilities. RDT&E arti- counter emerging threats as well as other a	areas of human- ving threat, miss icles for FY00-0 subsystems to co	machine interf sion planning, 04 include TRA ounter the evol	aces, software, Concept of Op CS engineerin ving threats.	testing and inte erations (CONO g and manufact	egration, signal OPS) developm turing developn	s analysis, syste ent and programent units neces	ems engineerin n planning for ssary for this s	ng integration, the production ystem to evolve	of e to	
	Activities are also required in the related a countermeasure development for the evol- ubsystems and capabilities. RDT&E arti- counter emerging threats as well as other this program is categorized as Budget Ac	areas of human- ving threat, miss icles for FY00-0 subsystems to co ctivity 7 because	machine interf sion planning, 04 include TRA ounter the evol	aces, software, Concept of Op CS engineerin ving threats.	testing and inte erations (CONO g and manufact	egration, signal OPS) developm turing developn	s analysis, syste ent and programent units neces	ems engineerin n planning for ssary for this s	ng integration, the production ystem to evolve	L. of e to	
	Activities are also required in the related a countermeasure development for the evol- ubsystems and capabilities. RDT&E arti- counter emerging threats as well as other	areas of human- ving threat, miss icles for FY00-0 subsystems to co ctivity 7 because	machine interf sion planning, 04 include TRA ounter the evol	aces, software, Concept of Op CS engineerin ving threats.	testing and inte erations (CONO g and manufact	egration, signal OPS) developm turing developm and capabilitie	s analysis, syste ent and programent units neces s in support of	ems engineerin n planning for ssary for this sy operational sys	ng integration, the production ystem to evolve stem developme	L. of to ent.	
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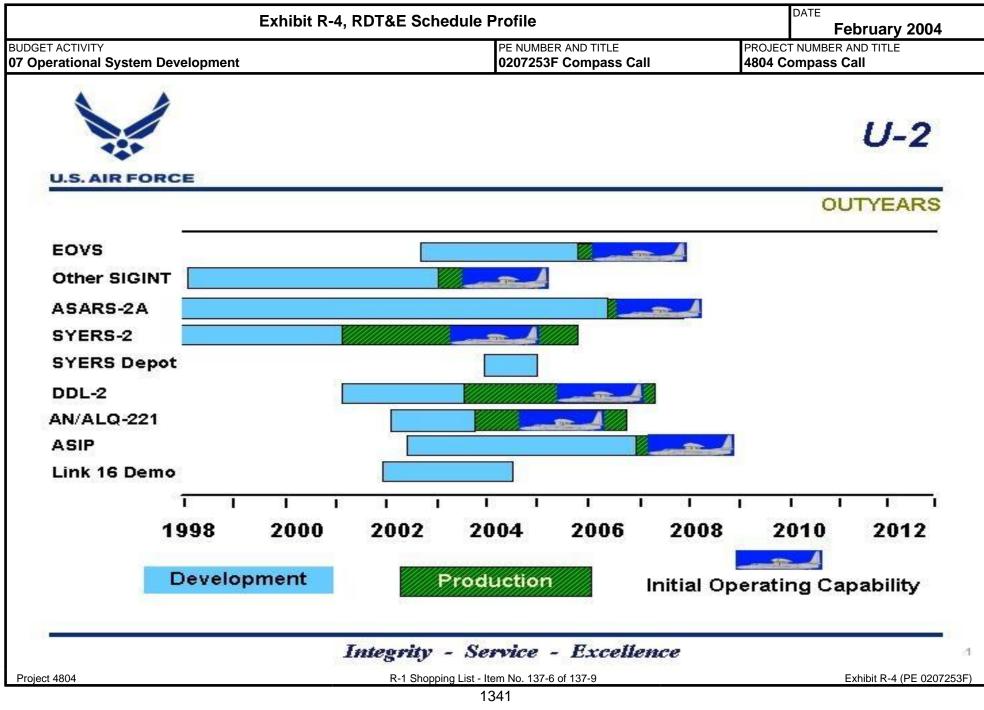
	Exhibit R-2a,	NDIGETIC	Jeer bustin					February	2004	
UDGET ACTIVITY 7 Operational System Developmer	nt	PE NUMBER AND TITLE 0207253F Compass Call					PROJECT NUME 4804 Compa	BER AND TITLE SS Call		
Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total	
4804 Compass Call	8.786	5 8.706	3.990	4.845	4.983	0.000	0.000	0.000	0.00	
Quantity of RDT&E Articles	(0 0	0	0	0	0	0			
(U) A.Mission Description and Budget Item Justification COMPASS CALL is the USAF's airborne wide area coverage offensive counter information system. It denies, disrupts, degrades and deceives adversary voice and data communications, disrupting their ability to effectively command and control forces in the field. Although COMPASS CALL has been a fielded, operational capability since 1983, it continues to evolve and dapt to counter the constantly changing adversary tactical communications. Most recently, this is reflected in a shift from traditional military communication systems to an increasing reliance on commercial/civil capabilities. The development to be accomplished by these funds center around the direct incorporation of advanced capabilities into the operational system to include Block 20, Block 30, Block 35 and related integration, testing, training, simulation and deploying systems. The evolution of the adversary threat requires developmental investments in a wide range of activities and ancillary subsystems. These activities include significant effort in the development and operational fielding of the Tactical Radio Acquisition and Countermeasure Subsystem (TRACS) which represents the next evolutionary capability increase in receiver/countermeasure effectivity for COMPASS CALL. Activities are also required in the related areas of human-machine interfaces, software, testing and integration, signals analysis, systems engineering integration, countermeasure development for the evolving threat, mission planning, Concept of Operations (CONOPS) development and program planning for the production of subsystems and capabilities. RDT&E articles for FY00-04 include TRACS engineering and manufacturing development units necessary for this system to evolve to counter emerging threats as well as other subsystems to counter the evolving threat. This program is categorized as Budget Activity 7 because it provides for development of techno										
 30, Block 35 and related integration wide range of activities and ancillar and Countermeasures Subsystem (TActivities are also required in the recountermeasure development for the subsystems and capabilities. RDT& counter emerging threats as well as This program is categorized as Bud U) B. Accomplishments/Planned Prog U) Accomplishments/Planned Program U) Develops and integrates classified cat U) System Engineering and Integration, Congress) such as TRACS, Analysis U) Total Cost 	n, testing, training, si ry subsystems. Thes FRACS) which repre- elated areas of huma are evolving threat, m &E articles for FY00 other subsystems to lget Activity 7 becau gram (\$ in Millions) apabilities using new , Ground and Flight integration, and test s, and Special Purpos	imulation and de se activities inclu esents the next even- n-machine interfission planning, 0-04 include TRA counter the even ise it provides for technologies ag Test of classified cap	ploying system ide significant evolutionary cap faces, software, Concept of Op ACS engineerin lving threats. r development gainst emerging pabilities (to inc	as. The evolution effort in the development ability increase testing and inter- erations (CONC) g and manufact of technologies	on of the adverse relopment and of in receiver/cou- egration, signals OPS) developm curing developm and capabilitie hreats	ary threat requ pperational fiel intermeasure es analysis, syst ent and progra ient units nece s in support of <u>FY</u>	tires development ding of the Tac ffectivity for C tems engineering m planning for essary for this sy f operational sy <u>2003</u> 0.000 7.386	ental investmen etical Radio Acc OMPASS CAL og integration, the production ystem to evolve stem developme <u>FY 2004</u> 0.000	ts in a quisition L. of to ent. <u>FY 2005</u>	
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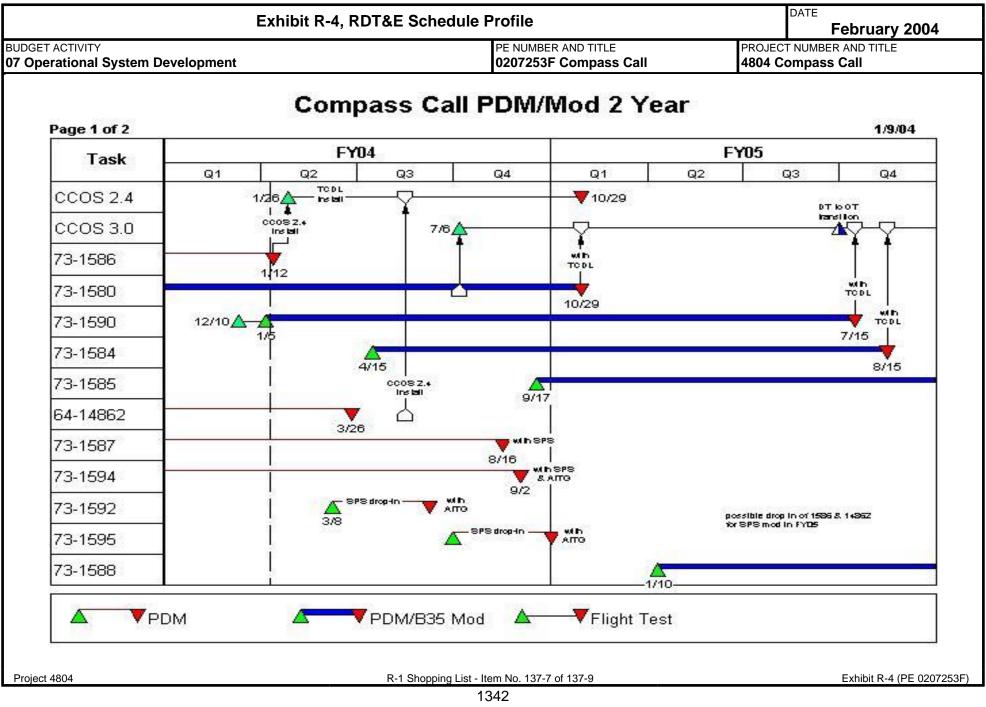
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	Exhibit R-2a, RDT&E P		DATE
	February 2004		
JDGET ACTIVITY 7 Operational System Develor	PROJECT NUMBER AND TITLE 4804 Compass Call		
り <u>C. Other Program Funding S</u>	Summary (\$ in Millions)		
Spares (3010)			
PE 0207253F, Other Charges (3010)	34.735 31.057		TBI
PE 0207253F, Support Equipment, (3010)	0.262 0.254		TBI
) D. Acquisition Strategy			
	ogram office. Program employs multipl	le contracting strategies.	
Project 4804	R-1 \$	Shopping List - Item No. 137-4 of 137-9	Exhibit R-2a (PE 0207253

Exhibit R-3, RDT&E Project Cost Analysis							Februa	DATE February 2004 NUMBER AND TITLE		
07 Operational System Development			0207253	Comp	ass Cal		4804 (Compass Call		
 (U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions) (U) <u>Product Development</u> 	Contract Method & Type	Performing Activity & Location	<u>Total</u> Prior to FY <u>2003</u> <u>Cost</u>	<u>FY</u> 2003 <u>Cost</u>	<u>FY</u> 2003 <u>Award</u> Date	FY FY 2004 2004 Cost Award Date	<u>FY</u> 2005 <u>Cost</u>	FYCost to2005CompleteAwardDate		<u>Target</u> Value of <u>Contract</u>
BAE Systems	MIPR/PO	BAE Systems, Nashua NH	11.892	7.386		8.706	3.990	Continuing	TBD	
Subtotal Product Development Remarks: (U) <u>Test & Evaluation</u>			11.892	7.386		8.706	3.990	Continuing	TBD	0.000
Electronic Proving Grounds (EPG) Subtotal Test & Evaluation Remarks:	MIPR/PO	EPG, Ft Huachuca AZ	0.000	1.400 1.400		0.000	0.000	0.000	1.400 1.400	0.000
(U) Total Cost			11.892	8.786		8.706	3.990	Continuing	TBD	0.000

R-1 Shopping List - Item No. 137-5 of 137-9





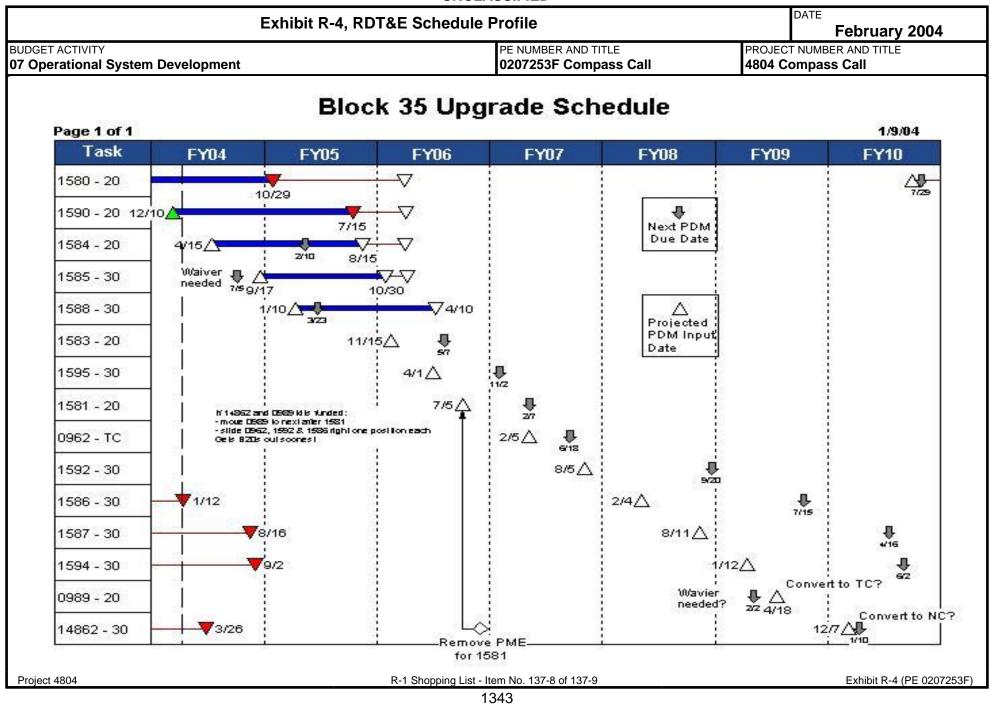


Exhibit R-4a, R	DATE February 2004	
BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0207253F Compass Call	PROJECT NUMBER AND TITLE 4804 Compass Call
 (U) <u>Schedule Profile</u> (U) TRACS-F Spiral Upgrade 	<u>FY 2003</u> 2Q	<u>FY 2004</u> <u>FY 2005</u>
 (U) TRACS-F Spiral Opgrade (U) TRACS-F Ground Test (U) TRACS-F Flight Test 	2Q	3Q 3Q
Project 4804	R-1 Shopping List - Item No. 137-9 of 137-9	Exhibit R-4a (PE 0207253F)