ARMY RDT&E BUDGET ITEM JUS	Fe	bruary 2004							
BUDGET ACTIVITY 5 - System Development and Demonstration								PROJECT L85	
COST (In Thousands)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to	Total Cost
occi (iii iiiousulus)	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
L85 FIREFINDER AN/TPQ-47	PE NUMBER AND TITLE 0604823A - FIREFINDER FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 Cost to Actual Estimate Estimate Estimate Estimate Estimate Estimate Complete	161557							

A. Mission Description and Budget Item Justification: The AN/TPQ-47 will replace the AN/TPQ-37 Artillery Locating Radar. On 27 Dec 2002, the Department of the Army approved request for popular name "Phoenix Battlefield Sensor System (PBS2)" as the official designation for the AN/TPQ-47 Radar. The AN/TPQ-47 will extend the artillery range performance out to 60km (double current capabilities.) It will improve the target throughput to 50 targets per minute in a highly mobile, C-130 transportable and survivable system. The AN/TPQ-47 will provide a new capability of missile and rocket detection at ranges of 150-300km and will be capable of alerting Theater Missile Defense Systems. Crew size of 12 for the AN/TPQ-37 will be reduced to 9 for the AN/TPQ-47. This program will leverage the AN/TPQ-36(V)8 Electronics Upgrade program by using the same man-machine interface. The AN/TPQ-47 will be integrated into the Army's Stryker Force, Future Combat Systems (FCS), and Future Force's Fires and Effects network. This program is in response to a need for a longer range, more accurate and less manpower intensive radar.

This system supports the Future transition path of the Transformation Campaign Plan (TCP).

FY05 funding allows completion of the System Development and Demonstration (SDD) phase of this program.

Accomplishments/Planned Program	FY 2003	FY 2004	FY 2005
Develop a Radar Environmental Simulator System (RESS). Efforts include development, continual refinement during system developmental test, and maintenance.	761	1315	500
Build, integration and contractor test of System #1. Efforts include design, materials, labor, and contractor acceptance test.	23944	2864	0
Build, integration and contractor test of System #2. Efforts include design, materials, labor, and contractor acceptance test.	2920	12455	0
Prime contractor activities to support Developmental Test and Limited User Test. Efforts include contractor conduct of Live Ammunition Tests at Yuma Proving Ground (YPG) and required fixes to hardware/software.	0	4774	11425
Government Test Costs. Efforts include cost of range times at YPG, gun crews, ammunition and government manpower to support system test.	776	4657	6291
Conduct Milestone C (MS C). Efforts include preparation of program documentation necessary to support a successful MS C	0	0	300
decision. Small Business Innovative Research/Small Business Technology Transfer Programs	0	760	0

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Exhibit R-2
1199
Budget Item Justification

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2004

BUDGET ACTIVITY **5 - System Development and Demonstration** PE NUMBER AND TITLE **0604823A - FIREFINDER**

PROJECT L85

Accomplishments/Planned Program B(continued)	FY 2003	FY 2004	FY 2005
Totals	28401	26825	18516

	E) (0000	E) / 000 /	E)/ 000E
B. Program Change Summary	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2004)	24913	27107	28515
Current Budget (FY 2005 PB)	28401	26825	18516
Total Adjustments	3488	-282	-9999
Congressional program reductions		-255	
Congressional rescissions			
Congressional increases			
Reprogrammings	3488	-27	
SBIR/STTR Transfer			
Adjustments to Budget Years			-9999

Change Summary Explanation: FY05 funds realigned to higher priority requirements.

C. Other Program Funding Summary	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	ToCompl	TotalCost
					'				
SSN: BA5100 Firefinder AN/TPQ-47	0	0	0	46701	82342	112084	174221	Continue	Continue

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Exhibit R-2 Budget Item Justification

ARMY RDT&E BUDGET ITEM JUS	STIFICATION (R2 Exhibit)	February 2004
DGET ACTIVITY - System Development and Demonstration	PE NUMBER AND TITLE 0604823A - FIREFINDER	PROJECT L85
Acquisition Strategy: Two (2) Systems Development and Demonstratems will undergo Developmental Testing (DT) and a Limited User To 05.	ation (SDD) systems were competitively awarded to Thal est (LUT). The results of the DT/LUT will support a MS	es-Raytheon Systems (TRS). The SDD C Low Rate Initial Production decision in

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ARMY RDT&E COST ANALYSIS(R3)

February 2004

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE **0604823A - FIREFINDER**

PROJECT **L85**

. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Complete		Target Value of Contract
a . Primary Hardware Dev	C/CPIF OTA	Thales-Raytheon Sys, El Segundo CA, Scotland, Forrest MI	116809	25510	1-4Q	19816	1-4Q	10880	1-4Q	0	173015	0
b . Ancillary Hardware Dev	SS/T&M	Various	4945	437	1-2Q	1065	1-4Q	1506	1-2Q	14603	22556	0
c . Sys Engrg (Contractor)	SS/FP	Various	2286	256	2-3Q	200	1-3Q	300	1-3Q	100	3142	0
d . Sys Engrg (Government)	MIPR	CECOM, Fort Monmouth, NJ	3196	440	1-2Q	428	1-2Q	425	1-2Q	400	4889	0
e . Software Engineering	C/CPAF	Telos, Lawton, OK	1522	270	1-2Q	565	1-3Q	525	1-2Q	200	3082	0
f. SSEB/MS C	MIPR	Various	227	0		0		300	2Q	0	527	0
Subtotal:			128985	26913		22074		13936		15303	207211	0

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ARMY RDT&E COST ANALYSIS(R3) BUDGET ACTIVITY 5 - System Development and Demonstration PE NUMBER AND TITLE 0604823A - FIREFINDER PROJECT L85

II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost		FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost		Complete		Target Value of Contract
a . Development Support - Government		Various	930	233	1-2Q	199	1-2Q	274	1-2Q	301	1937	0
b . Integrated Logistics Spt (ILS) - Contractor	TBD	Various	589	0		0		100	1-2Q	0	689	0
c . ILS Support- Government	MIPR	CECOM, Fort Monmouth, NJ	425	0		120	2Q	210	1-2Q	35	790	0
d . Configuration Mgmt Spt-Government	MIPR	CECOM, Fort Monmouth, NJ	600	119	1Q	155	1Q	150	1Q	35	1059	0
Subtotal:			2544	352		474		734		371	4475	0

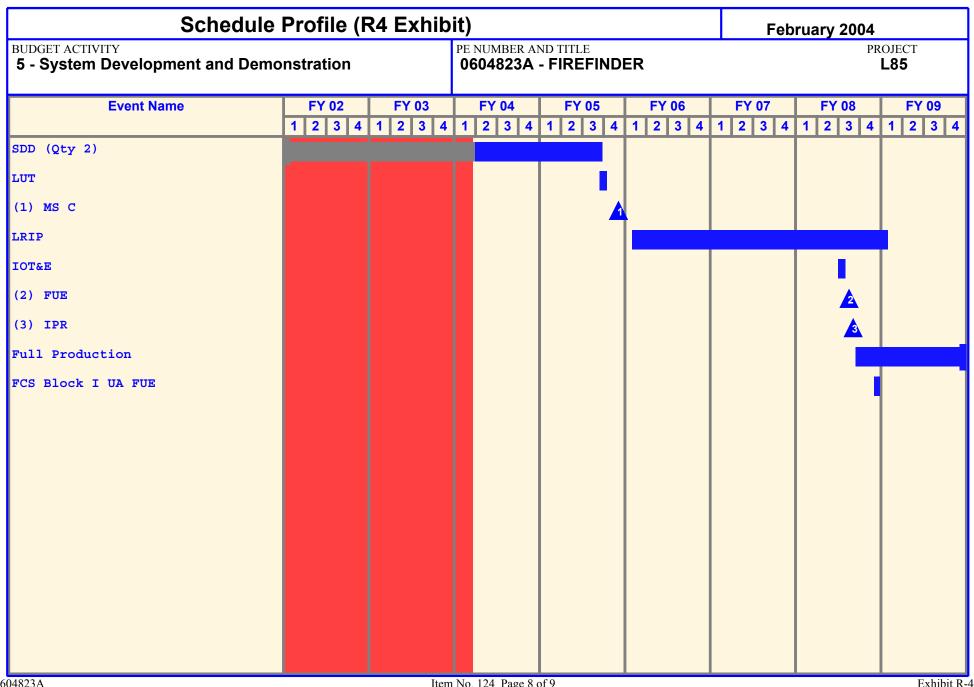
0604823A FIREFINDER Item No. 124 Page 5 of 9 1203 Exhibit R-3 Cost Analysis

ARMY RDT&E COST ANALYSIS(R3) February 2004 BUDGET ACTIVITY PROJECT PE NUMBER AND TITLE 5 - System Development and Demonstration **0604823A - FIREFINDER** L85 III. Test and Evaluation Contract Performing Activity & Total FY 2003 FY 2003 FY 2004 FY 2004 FY 2005 FY 2005 Cost To Total Target Method & PYs Cost Cost Award Value of Location Cost Award Award Cost Complete Cost Type Date Date Date Contract a. Development Test & **MIPR** Yuma. AZ WSMR. 0 0 0 1000 1Q 0 1000 0 Evaluation (DT&E) NM b. Verification Testing **MIPR** 200 0 0 Various 202 190 1-2Q 2533 1-2Q 1Q 3125 c . Test Support **MIPR** 100 1-2Q 224 1Q 300 1-2Q 0 1980 0 Various 1356 d . Limited User Test **MIPR** Various 0 0 0 531 3-4Q 0 531 0 **MIPR** 0 0 0 2Q 0 0 e . Logistics/Training Various 250 250 290 2757 0 1558 2281 6886 Subtotal: IV. Management Services Performing Activity & FY 2003 FY 2003 FY 2004 FY 2004 FY 2005 FY 2005 Cost To Contract Total Total Target Method & Location PYs Cost Cost Award Cost Award Cost Award Complete Cost Value of Type Date Date Date Contract a . Program Management C/FP Various 1633 245 1-2Q 618 1-3Q 460 1Q 203 3159 0 - Contractor b . Program Management **MIPR** CECOM, Fort 439 103 1Q 110 1-2Q 210 1Q 150 1012 0 - Government Matrix Spt Monmouth, NJ c . Program Management In House PM NV/RSTA, Fort 2426 498 1-4Q 792 1-4Q 895 1-4Q 447 5058 0 Monmouth NJ

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ARM	Y RDT&E CO	ST AN	ALYS	IS(R3)				Feb	ruary 20	04			
JDGET ACTIVITY - System Development and Demonstration				PE NUMBER AND TITLE 0604823A - FIREFINDER					PROJECT L85				
Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost			Total Cost	Targe Value o Contrac		
		4498	846		1520		1565		800	9229	(
	Contract Method &	Contract Performing Activity & Location	Contract Performing Activity & Total Method & Location PYs Cost	Contract Performing Activity & Total FY 2003 Method & Location PYs Cost Cost Type 4498 846	Contract Performing Activity & Total FY 2003 FY 2003 Method & Location PYs Cost Cost Award Type 4498 846	Contract Performing Activity & Total FY 2003 FY 2003 FY 2004 Method & Location PYs Cost Cost Award Cost Type 4498 846 1520	Contract Performing Activity & Total FY 2003 FY 2004 FY 2004 Method & Location PYs Cost Cost Award Date Date 4498 846 1520	Contract Performing Activity & Total FY 2003 FY 2003 FY 2004 FY 2004 Cost Award Cost Date Date Date Date Date Date Date Dat	PE NUMBER AND TITLE 0604823A - FIREFINDER Contract Performing Activity & Total	Contract Performing Activity & Total FY 2003 FY 2004 FY 2004 FY 2005 FY 2005 Cost To Method & Location PYs Cost Cost Award Cost Award Cost Date Date Date Award Cost Date Date Date Date Date Date Date Dat	Contract Performing Activity & Total FY 2003 FY 2004 FY 2004 FY 2005 FY 2005 Cost To Total Method & Location PYs Cost Cost Award Cost Award Cost Date Date Date Date Date Date Date Dat		

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Budget Item Justification

Schedule Detail (R4a I	Exhibit)					Februa	ary 2004	
BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBE 060482	ER AND TIT 3A - FIR	-	project L85				
Schedule Detail_	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
MS B for FCS	3Q							
Conduct Developmental Testing (DT)		1-4Q	1-2Q					
Conduct Limited User Test (LUT)			3-4Q					
Milestone C for LRIP			4Q					
Operation Control Selter - FCS				4Q				
Develop Training Devices				1-4Q	1-4Q			
Conduct IOT&E						3Q		
FUE						3Q		
FRP IPR						3Q		

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