	ARMY RDT&E BUDGET ITEM JUS	STIFIC	ATION	(R2 E	xhibit)		F	ebruary :	2004	
	ACTIVITY stem Development and Demonstration		PE NUMBER <b>0604270<i>F</i></b>			MENT				
	COST (In Thousands)	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 Cost
	Total Program Element (PE) Cost	3829	32870	16879	32315	35477	32085	29018	Continuing	Continuing
665	A/C SURV EQUIP DEV	930	0	4391	7360	3963	3961	3960	Continuing	Continuing
L12	SIGNALS WARFARE DEVELOPMENT (TIARA)	25550	22035	2528	11394	14213	10330			Continuing
L15	ARAT-TSS	210	2236	1360	1258	1255	1800	1863	Continuing	Continuing
L16	TROJAN DEVELOPMENT	1335	1460	1463	1556	1556	1576	1608	Continuing	Continuing
L20	ATIRCM/CMWS	(	7139	7137	10747	14490	14418	10862	Continuing	Continuing

A. Mission Description and Budget Item Justification: This program element encompasses engineering and manufacturing development for tactical electronic warfare (EW), signals warfare (SW), aircraft survivability equipment (ASE), battlefield deception, rapid software reprogramming and protection of personnel and equipment from hostile artillery. EW encompasses the development of tactical EW equipment and systems mounted in both ground and air vehicles. The systems under this program provide the Army with the capability to degrade or deny hostile forces the effective use of their communications, countermortar/counterbattery radars, surveillance radars, infrared/optical battlefield surveillance systems and electronically fused munitions. Existing Army EW systems must be replaced or upgraded to maintain their capability in the face of threats. This program element satisfies requirements for brigade, division, corps and higher commanders to conduct electronic warfare to meet tactical and Special Electronic Mission Aircraft (SEMA), attack/scout, and assault/cargo mission requirements. The Prophet program provides for the development of multifunction ground based and airborne intelligence and electronic warfare systems. Trojan will complete Proof-of-Principle R&D for specific applications in advanced threat signals processing, prototype software upgrades, high frequency (HF) algorithms for compact antenna array technology (CAAT), search and acquisition capabilities for unattended signal collectors, and new digital intelligence collection, processing and dissemination technology. The ARAT Project will develop, test and equip an Army-wide infrastructure capable of rapidly reprogramming electronic combat software embedded in offensive and defensive weapon systems. This system supports the Current-to-Future transition path of the Transformation Campaign Path (TCP).

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# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit) BUDGET ACTIVITY 5 - System Development and Demonstration PE NUMBER AND TITLE 0604270A - EW DEVELOPMENT

B. Program Change Summary	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2004)	38309	33214	19526
Current Budget (FY 2005 PB)	38291	32870	16879
Total Adjustments	-18	-344	-2647
Congressional program reductions		-312	
Congressional rescissions			
Congressional increases			
Reprogrammings	-18	-32	
SBIR/STTR Transfer			
Adjustments to Budget Years			-2647

FY 2005 funds realigned to support higher Army priorities.

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Exhibit R-2 Budget Item Justification

ARMY RDT&E BUDGET ITEM JUS	STIFIC	ATION	(R-2A	Exhib	it)	Fe	ebruary :	2004	
BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER <b>0604270</b>			MENT			PROJECT <b>665</b>	
COST (In Thousands)	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 Cost
665 A/C SURV EQUIP DEV	930	1 0	4391	7360	3963	3961	3960	Continuing	Continuing

A. Mission Description and Budget Item Justification: The objective of the Aircraft Survivability Equipment Development project is to develop the Suite of Radio Frequency Countermeasures (SIRFC) system to identify and protect U.S. Army aircraft against multiple radio frequency weapon systems. SIRFC will increase the combat effectiveness of these aircraft by reducing or eliminating the ability of threat air defense systems to detect, hit, track, damage or destroy them.

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

The FY05 funding allows the program to continue the technical insertion program.

Accomplishments/Planned Program	FY 2003	FY 2004	FY 2005
Conduct Advanced ASE Testing	3300	0	0
Conduct Advanced ASE Qualification Testing	4455	0	0
Conduct Technology Insertion Program	1506	0	4291
In-house and program management administration	40	0	100
Totals	9301	0	4391

### **ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)** February 2004 **BUDGET ACTIVITY** PROJECT PE NUMBER AND TITLE 5 - System Development and Demonstration 0604270A - EW DEVELOPMENT 665 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 **Total Cost** B. Other Program Funding Summary To Compl APA, BA 4 AZ3508 ASE 3078 9452 4885 8164 26823 42554 28689 0 156221 OSD Procurement. PE 1160444BB 25300 13900 62309 46345 48922 50459 60600 0 307835

C. Acquisition Strategy: SIRFC is managed by the Technology Applications Program Office (TAPO), Ft. Eustis, VA, which is part of the Special Operations Command (SOCOM). TAPO is currently integrating and testing the SIRFC system on the MH-47 and MH-60 aircraft platforms and will begin full rate production of SIRFC when all flight testing is completed. This will allow the Army CH-47 and UH-60 platforms to leverage off of TAPO's integration efforts on the MH series and to take advantage of an established production line. The Army will also be able to use TAPO's production contract when it is ready to procure systems for its aircraft platforms. A technology insertion program will also be implemented to replace old technology and reduce obsolescence problems with the goal of reducing unit costs.

## ARMY RDT&E COST ANALYSIS(R3) BUDGET ACTIVITY 5 - System Development and Demonstration PE NUMBER AND TITLE 0604270A - EW DEVELOPMENT PROJECT 665

I. 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 . SIRFC EMD Contract	C/CPAF	ITT Corp, Clifton, NJ	101021	0		0		0		0	101021	128941
b . EMD Support	MIPR	CECOM, Ft. Monmouth, NJ	420	0		0		0		0	420	420
c . Initiate Technology Insertion/P3I	C/CPFF	ITT Corp, Clifton, NJ	233	0		0		0		0	233	233
d . Conduct PEP/Technology Insertion/Obsolescence	C/CPFF	ITT Corp, Clifton, NJ	9000	0		0		0		0	9000	9000
e . PEP/Technology Insertion/Obsolescence Support	MIPR	CECOM, Ft. Monmouth, NJ	7	0		0		0		0	7	7
f . Continue Technology Insertion Program/P3I	C/CPFF	ITT Corp, Clifton, NJ	3226	0		0		0		0	3226	8734
g . Technology Insertion/P3I Support	MIPR	Multiple	3390	0		0		0		0	3390	487
h . Technology Insertion	SS/CPFF	ITT Corp, Clifton, NJ	0	1356	2Q	0		3170	2Q	0	4526	0
Subtotal:			117297	1356		0		3170		0	121823	147822

### **ARMY RDT&E COST ANALYSIS(R3)** February 2004 PROJECT **BUDGET ACTIVITY** PE NUMBER AND TITLE 0604270A - EW DEVELOPMENT 5 - System Development and Demonstration 665 II. Support Cost Contract Performing Activity & Total FY 2003 FY 2003 FY 2004 FY 2004 FY 2005 FY 2005 Cost To Total Target Method & PYs Cost Cost Cost Cost Value of Location Award Award Cost Award Complete Type Date Date Date Contract a . Threat Anlaysis TASC Inc., Reading, SS/CPFF 0 150 2Q 0 0 150 0 0 b. Engineering Support **MIPR** AMRDEC, Redstone 0 0 736 1-2Q 0 736 0 Arsenal, AL c. Engineering Support **MIPR** CECOM, Ft. O n 0 385 1-2Q 0 385 0 Monmouth, NJ 0 150 0 1121 1271 0 Subtotal: FY 2003 FY 2003 FY 2004 FY 2005 III. Test and Evaluation Contract Performing Activity & Total FY 2004 FY 2005 Cost To Total Target Method & Location PYs Cost Cost Award Cost Cost Award Complete Cost Value of Award Contract Type Date Date Date C/CPFF Research Analysis & a . Conduct Development 1993 0 0 0 1993 1993 Testing/Limited User Maintenance Inc., El Testing Paso, TX C/CPFF 0 0 b. Conduct Development Boeing, Mesa, AZ 1645 1645 1645 Testing/Limited User Testing c . Conduct Development **MIPR** Multiple 2311 0 0 0 2311 2311 Testing/Limited User Testing d. Conduct Contract C/CPFF 0 Research Analysis & 1070 0 0 1070 1070 Maintenance Inc., El Flight Testing Paso, TX

### **ARMY RDT&E COST ANALYSIS(R3)** February 2004 PE NUMBER AND TITLE PROJECT **BUDGET ACTIVITY** 5 - System Development and Demonstration 0604270A - EW DEVELOPMENT 665 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 Cost Award Cost Award Complete Cost Value of (continued) Location Contract Type Date Date Date e. Conduct Contractor **MIPR** Multiple 920 n 0 920 920 Flight Testing f. Conduct Benefield **MIPR** Air Force Flight Test 633 0 0 0 633 633 Center. Edwards AFB. Anechoic Facility Testing CA g . Radio Frequency C/CPFF Simulation 562 0 0 n 562 562 Simulation System Test Technologies Inc., Huntsville, AL h. Conduct Software **MIPR** CECOM, Ft. 100 n 0 n 100 100 Integration Lab Testing Monmouth, NJ i . Ground/Flight Testing & MIPR Air Force Flight Test 0 1626 3Q 0 0 1626 2643 Logistics Support Center, Las Vegas, NV j. Antenna Measurements MIPR Naval Air Warfare O 652 3Q 0 0 652 924 & Pattern Testing Center. Patuxent River, MD k. Noise Floor & EMC **MIPR** Naval Air Warfare 0 531 3Q 0 0 531 0 **Testing** Center. Patuxent River. MD I. Performance Testing & **MIPR** Naval Air Warfare 0 292 3Q 0 ი 0 292 Evaluation Center. Patuxent River, MD

m . Advanced ASE

Support

Qualification Testing &

SS/CPFF

ITT Corp, Clifton, NJ

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4455

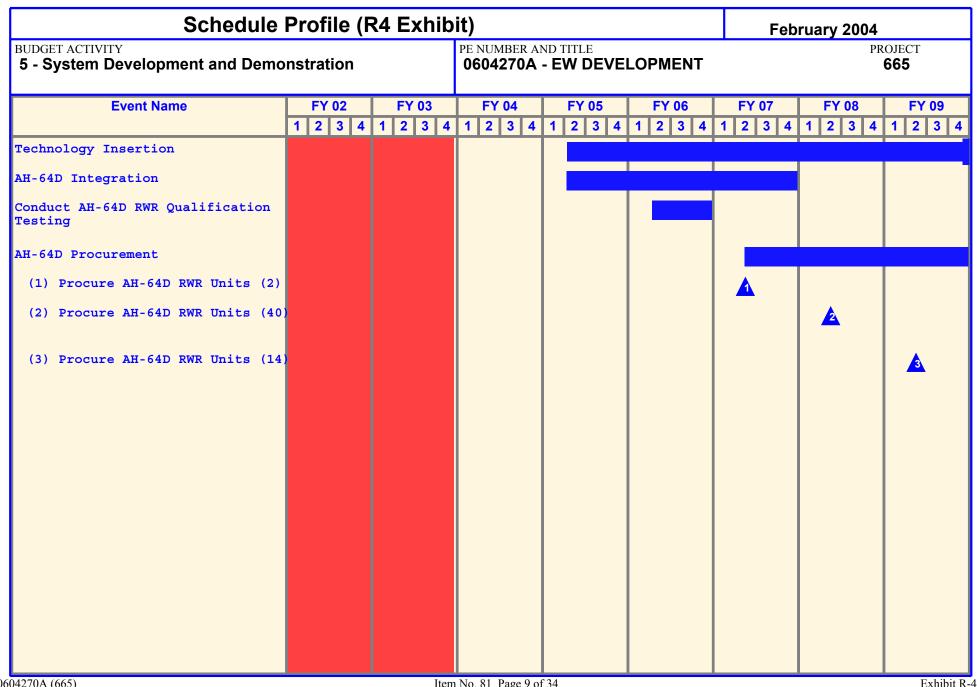
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BUDGET ACTIVITY 5 - System Develop	oment and	d Demonstration			JMBER AN <b>4270A -</b>		ELOPME	ENT		ruary 20	PROJEC <b>665</b>	
III. Test and Evaluation (continued)	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Complete	Total Cost	Targe Value of Contract
n . Airworthiness Release	MIPR	AMRDEC, Redstone Arsenal, AL	0	99	4Q	0	2 4.0	0	24.0	0	99	(
o . Logistics Support	MIPR	AMCOM, Redstone Arsenal, AL	0	50	4Q	0		0		0	50	0
p . Engineering Support	MIPR	CECOM, Ft. Monmouth, NJ	0	50	4Q	0		0		0	50	0
Subtotal:			9234	7755		0		0		0	16989	12801
Oubtotai.												
	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	Award	Complete	Total Cost	Value of
IV. Management Services  a . Project Management			Total PYs Cost 657	FY 2003 Cost	Award			FY 2005 Cost 100		Complete		Target Value of Contract 1193
IV. Management Services	Method & Type	Location	PYs Cost	Cost	Award Date	Cost	Award	Cost	Award Date	Complete	Cost	Value of Contract 1193
IV. Management Services  a . Project Management	Method & Type	Location	PYs Cost 657	Cost 40	Award Date	Cost 0	Award	Cost 100	Award Date	Complete 0	797	Value of Contract



0604270A (665) A/C SURV EQUIP DEV Item No. 81 Page 9 of 34

**Budget Item Justification** 

Schedule Detail (R4a B	Schedule Detail (R4a Exhibit)								
BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBI <b>060427</b>	ER AND TIT OA - EW		Γ	February 2004 PROJI				
Schedule Detail	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009		
Conduct Technology Insertion			2-4Q	1-4Q	1-4Q	1-4Q	1-4Q		
Conduct AH-64D Integration			2-4Q	1-4Q	1-4Q				
Conduct Radar Warning Receiver Qualification Testing - AH-64D				2-4Q					
Procure AH-64D Radar Warning Receiver Units					2Q	2Q	2Q		

	ARMY RDT&E BUDGET ITEM JUS	STIFIC	ATION	(R-2A	Exhib	it)	Fe	ebruary 2	2004	
	ACTIVITY tem Development and Demonstration		PE NUMBER <b>0604270</b>			MENT			PROJECT <b>L12</b>	
	COST (In Thousands)	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 Cost
L12	SIGNALS WARFARE DEVELOPMENT (TIARA)	2555	22035	2528	11394	14213	10330	10725	Continuing	Continuing

A. Mission Description and Budget Item Justification: Prophet's primary mission is providing 24-hour Situation Development and Information Superiority to the supported maneuver brigade to enable the most effective engagement of enemy forces. Prophet is an integral part of the Army Transformation, providing near real time (NRT) information to the Brigade Commander within his combat decision cycle. It is the tactical commander's sole organic ground-based COMINT/EW system for the Division, Stryker Brigade Combat Team (SBCT) and Armored Cavalry Regiments (ACR). Prophet provides the tactical commander with next generation Signals Intelligence/Electronic Warfare (SIGINT/EW) - radio detection finding capability. Prophet replaces the division level Trailblazer and Teammate legacy SIGINT systems in Block I and TrafficJam in Block II. Prophet stationary and on-the-move direction finding information develops battlespace visualization, intelligence preparation of the battlefield (IPB) and target development for enemy and gray emitters within radio line-of-sight across the brigade area of responsibility. Block II/III will add Electronic Attack (EA) and an improved signal type detection capability during the System Development and Demonstration (SDD). Additionally, Prophet provides the ability to intercept voice communications data when on board linguists are available. This NRT information, when processed, provides a key component of the fused intelligence common operating picture (COP). Initially Prophet will interface with the maneuver brigade Analysis and Control Team's (ACT) All Source Analysis System (ASAS)-Remote Work Stations (ASAS-RWS) via Prophet Control. Prophet Control is a surrogate for the Distributed Common Ground System-Army (DCGS-A) in Blocks I to III. Prophet Control's functionality is planned to be integrated onto the DCGS-A platform. The ACT will forward the gathered information to the division and armored cavalry Analysis and Control Element's (ACE) ASAS. Prophet enables the Brigade Commander to detect signals while the vehicle is moving, a first for a Tactical SIGINT system. Prophet is being developed in a user prioritized block approach: Block I - Electronic Support (ES) (COMINT), Block II - Electronic Attack (EA), Block III - Modern Signals (The Agile Signals, TAS). Planned enhancements to Block III capabilities will include COMINT and EA capabilities. Prophet Block II/III functionality will be resident within FCS. That technology and Tactics, Techniques and Procedures (TTPs) will be leveraged.

FY05 Funds support Prophet Block II/III transition into production, as well as initiation of P3I enhancement effort planning.

The Prophet System supports the Current to Future Force transition path of the Army Transformation Campaign Plan (TCP).

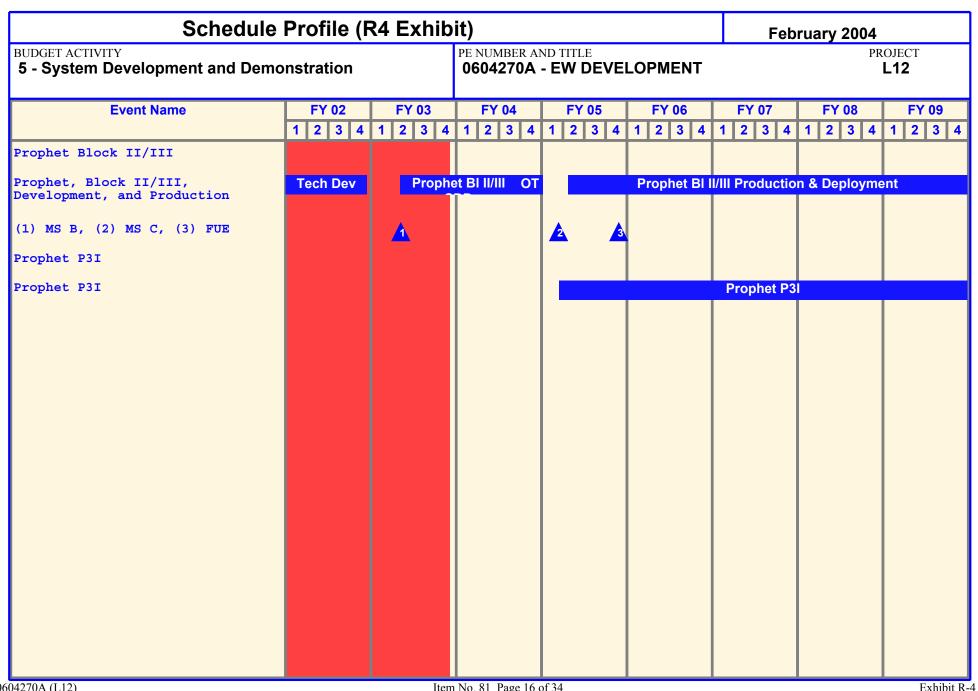
ARMY RDT&E BUDGET ITEM J	USTIFI	CATIC	ON (R-	2A Ex	hibit)		Febru	uary 2004	
BUDGET ACTIVITY 5 - System Development and Demonstration			BER AND T <b>70A - EV</b>	ITLE V DEVEL	_OPMEN	ΙΤ		PROJ <b>L12</b>	ECT
Accomplishments/Planned Program Prepared for and Conduct Mileston B IPR for Prophet Block II/III Cont Prophet Block II/III System Development and Demonstration (SDD) Prepare for and conduct Prophet Block II/III DT/IOT&E Prepare for Prophet P3I Enhancements Prepare for Prophet Block II/III MS C Conduct of Leviathon Studies and Prototype Development	ract						10 2218 185 45 96	0 15910 7 5900 0 0 0 225 3 0	0 1039 489 600 400
Totals  B. Other Program Funding Summary	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	,	2528 Total Cost
BZ7326 Prophet Ground (TIARA) PE 030885G Defense Cryptological Program for PROPHET	49041 1694								Continuing Continuing
BZ9751 Special Purpose Systems (TIARA) (Prophet Only)	0	489	486	488	3675	2257	2339	Continuing	Continuing

C. Acquisition Strategy: The Prophet Acquisition Strategy is structured to optimize system capability while reducing risk and streamlining business and engineering processes. Block I ES (COMINT) Engineering and Manufacturing Development (EMD) was a sole source effort which leveraged off existing COTS equipment. Follow-on Block II (EA) and Block III (Modern Signals -(TAS)) efforts were combined into a single SDD phase following an evolutionary acquisition process. Block II/III SDD was competetively awarded in 2QFY03. Production and P3I efforts will utilize competitive contracting to the maximum extent possible.

### ARMY RDT&E COST ANALYSIS(R3) February 2004 BUDGET ACTIVITY PROJECT PE NUMBER AND TITLE 5 - System Development and Demonstration L12 0604270A - EW DEVELOPMENT . Product Development Contract Performing Activity & Total FY 2003 FY 2003 FY 2004 FY 2004 FY 2005 FY 2005 Cost To Total Target Method & Location PYs Cost Cost Cost Award Value of Award Award Cost Complete Cost Type Date Date Date Contract a . Prophet Block II/III C-CPIF General Dynamics 0 17171 2Q 13209 1Q 1039 1Q 0 31419 SDD Contract Decision Systems, Scottsdale, AZ FFP 0 0 Continue 0 b. Prophet Block II/III Titan Systems 1768 2-3Q 1768 **GFE** 0 c . Prophet Modeling and C/T&M CACI, Eatontown, NJ 0 1000 3Q n 1000 0 Simulation CPFF d . Leviathon Sensytech. 0 963 2Q 0 0 963 0 Development and Newington, VA **Prototyping** 0 20902 13209 1039 0 Continue 35150 Subtotal: FY 2003 FY 2003 FY 2004 FY 2004 FY 2005 FY 2005 Cost To II. Support Cost Contract Performing Activity & Total Total Target Method & Location PYs Cost Cost Award Cost Award Cost Award Complete Cost Value of Type Date Date Date Contract a . Matrix Support MIPR CECOM, Fort 4015 1641 1-2Q 1251 1Q 381 1Q Continue 7288 0 Monmouth NJ b. Contractor Eng & Spt **FFP** Sytex Group. 403 200 1-2Q 105 1Q 50 1Q Continue 758 0 Eatontown, NJ 300 c. Contractor Eng & Spt **FFP** CACI, Eatontown, NJ 675 750 1-2Q 1000 1Q 1Q Continue 2725 0

	ARM	Y RDT&E CO	ST AN		<u> </u>				Feb	ruary 20		
BUDGET ACTIVITY 5 - System Develor	oment and	d Demonstration			UMBER ANI <b>)4270A -</b>		ELOPME	NT			PROJEC <b>L12</b>	
II. Support Cost (continued)	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	Total Cost	Targe Value o Contrad
d. TSM/NSTO	MIPR	TSM, Ft Huachuaca, AZ	250	250	1-2Q	103	2Q	50	1Q		653	25
e . Contractor Eng & Spt	C/T&M	Dynetics, Huntsville, AL	0	0		60	2Q	0		0	60	(
Subtotal:			5343	2841		2519		781		Continue	11484	250
II. Test and Evaluation	Contract	Performing Activity &	Total	FY 2003	FY 2003	FY 2004	FY 2004	FY 2005	FY 2005		Total	Targe
a . Prepare for and Conduct Prophet Block	Contract Method & Type MIPR	Performing Activity & Location  EPG/AEC	Total PYs Cost	FY 2003 Cost 1078	FY 2003 Award Date 2-4Q	FY 2004 Cost 5350	FY 2004 Award Date 1-3Q	FY 2005 Cost		Complete	Total Cost 6428	Targe Value o Contrac
a . Prepare for and	Method & Type	Location	PYs Cost	Cost	Award Date	Cost	Award Date	Cost	Award	Complete 0	Cost	Value o Contrac
a . Prepare for and Conduct Prophet Block II/III DT/IOTE	Method & Type MIPR	Location EPG/AEC	PYs Cost 0	Cost 1078	Award Date	Cost 5350	Award Date	Cost 0	Award Date	Complete 0	Cost 6428	Value o Contrac

	ARM	Y RDT&E COS	ST AN	<b>ALYS</b>	IS(R3)				Feb	ruary 20	04	
BUDGET ACTIVITY 5 - System Develor	ment and	d Demonstration			UMBER AN <b>)4270A -</b>	D TITLE <b>EW DEV</b>	ELOPME	ENT			PROJEC <b>L12</b>	
V. Management Services	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		Total Cost	Targe Value o Contrac
a . Program Management	In-House	PM, Signals Warfare, Fort Monmouth NJ	4022	525	1-4Q	957	1-4Q	250	1-4Q	Continue	5754	C
b . Program Support	MIPR	ASPO, Alexandria, VA	0	204	2Q	0		0		0	204	(
Subtotal:			4022	729		957		250		Continue	5958	(
Project Total Cost:			9365	25550		22035		2528		Continue	59478	250



Schedule Detail (R4a B	Exhibit)					February 2004				
BUDGET ACTIVITY 5 - System Development and Demonstration	1.5	ER AND TIT ' <b>0A - EW</b>		Т	PROJECT <b>L12</b>					
Schedule Detail_	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009			
Conduct SSEB for Prophet Block II/III SDD Contract	1-2Q									
Milestong B Decision for Prophet Block II/III SDD Contract	2Q									
Award Prophet Block II/III SDD Contract	2Q									
Conduct Block II/III DT/IOT&E		2-4Q								
Milestone C for Prophet Block II/III			1Q							
Prophet BI II/III P3I			2-4Q	1-4Q	1-4Q	1-4Q	1-4Q			
First Unit Equipped, Prophet Block II/III			4Q							
Conduct Leviathon Studies and Develop Prototypes	2-4Q									

ARMY RDT&E BUDGET ITEM JUS	STIFIC	ATION	(R-2A	Exhib	it)	Fe	ebruary :	2004	
BUDGET ACTIVITY 5 - System Development and Demonstration	_ ·	PE NUMBER <b>0604270<i>F</i></b>			MENT			PROJECT <b>L15</b>	
COST (In Thousands)	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 Cost
L15 ARAT-TSS	210	2236	1360	1258	1255	1800	1863	Continuing	Continuing

A. Mission Description and Budget Item Justification: The Army Reprogramming Analysis Team (ARAT) Target Sensing System (TSS) supports the tactical Commander by providing timely/rapid reprogramming of any Army supported, joint, allied service, Army Electronic Warfare (EW) Integrated Reprogramming (EWIR) or Measurement Intelligence (MASINT) based target acquisition, target engagement, or vehicle/aircraft survivability equipment (ASE). ARAT provides software changes not readily possible by operator input, to respond to rapid deployments or changes in the threat environment. The ARAT Software Engineering (SE) Project Office coordinates the development of ARAT infrastructure to support the needs of all TSS developers and users; develops the capability to conduct real-time hardware and software technical enhancements of validated threat changes; examines and identifies the best technical approaches for development of field reprogramming capabilities of ATSS with commonality at a desired end-state; supports the developments of flagging models; participates in the operational and developmental test design of ATSS; and supports Service and JCS Reprogramming Exercises.

Accomplishments/Planned Program	FY 2003	FY 2004	FY 2005
Engineering Development (TSS Survey): Complete the Survey initiated in FY02 to identify TSS requiring support in Army Battlefield Functional Area (BFAs) with a focus on operational, technical, and intelligence aspects. This would include technical information about the actual TSS and their near and far term support requirements for intelligence collection, flagging, and threat analysis, Mission Data Set (MDS), communications, and filed support.	475	250	150
Engineering Development (TSS Survey): Initiate a Target Sensing System (TSS) Survey requiring support in Army Battlefield Functional Area (BFAs) with a focus on operational, technical, and intelligence aspects. This would include technical information about the actual TSS and their near and far term support requirements for intelligence collection, flagging, and threat analysis, Mission Data Set (MDS), communications, and filed support.	0	0	0
Intelligence Support (Platform Intelligence Integration): Analyze capability of using data from US Army Aviation Platform systems to increase tactical situational awareness as well as providing additional intelligence collection data. This would include evaluation of system modifications.	0	350	288

ARMY RDT&E BUDGET ITEM JUST	,	Februa	ry 2004			
BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE  0604270A - EW DEVELOPMENT	PROJECT <b>L15</b>				
Accomplishments/Planned Program (continued)		FY 2003	FY 2004	FY 2005		
ntelligence Support (Platform Intelligence Integration): Building on the work of enefits vs. potential costs to upgrade systems on each Aviation platform. In erify the additional benefit and identify intelligence collection methodology to telligence network.	tiate lab testing of potential system updates to	500	624	246		
latabase Support (Flagging Model): Work jointly with the USAF at Kelly AFB agging database structure shared by the US Army and USAF flagging moded ddition, initiate converting the US Army flagging models over to the new dat	els to a more modern database structure. In	275	0	200		
Patabase Support (Flagging Model): Work jointly with the USAF at Kelly AFB agging database structure shared by the US Army and USAF flagging mode		0	100	0		
issemination (EWOSS/MLV): Complete an upgrade of EWOSS 2000 comm lassified connection capability and integrating all aspects of current MLV sol ddition, develop training aids to facilitate the field user being able to success aining course.	ftware as modules within the basic structure. In	0	200	0		
issemination (EWOSS/MLV): Using the upgraded EWOSS 2000 software, α system with flexible data protocols to support the associated cables and protocoprogrammed. After completing alpha testing, initiate beta testing with field α eveloped in FY02.	ocols required for each US Army TSS being	300	100	0		
ngineering Development, Intelligence Support, Database Support, & Dissent equirements for a common intelligence database analysis and MDS tool for RAT-SE. The functionality must include common user interface, intelligence enerator tools, and output formats to support intelligence reporting, RF scent exerage the use of existing tools such as the Major Radar Database (MRDB)	use by ARAT-TA (Kelly and Eglin AFBs) and e inputs, modular threat analysis and MDS narios inputs and MDS inputs for EWOSS/MLV to	0	250	200		
Engineering Development, Intelligence Support, Database Support, & Dissent equirements definition completed in FY02, initiate the development of the co pol. Complete the user interface, database structure, output formats, and play IDS generator tools.	mmon intelligence database analysis and MDS	555	362	276		
Totals		2105	2236	1360		

0604270A (L15) ARAT-TSS Item No. 81 Page 19 of 34 385

Exhibit R-2A Budget Item Justification

ARMY RDT&E BUDGET ITEM JUSTIFI	CATION (R-2A Exhibit)	February 2004
BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE  0604270A - EW DEVELOPMENT	PROJECT <b>L15</b>
B. Other Program Funding Summary: Not applicable for this item.		
C. Acquisition Strategy: The efforts to be funded in this project will require a cothe project will be obtained from both the CECOM SEC competitive omnibus and	mbination of systems specific and high-tech knowled the RDEC High Tech contracts.	edge. The contractual services portion for

Method & Type  A Labor (internal Gov't)  B D  CECOM, Fort Monmouth, NJ  B D  CECOM, Fort Monmouth, NJ  B D  TBD/Various sites  A Subtotal:  A Subtotal:  A Ward Cost Date  Continue  Conti	5 - System Develo	pinient and	a Demonstration		000	)421UA -	EVV DEV	ELOPME	IN I			L15	)
Monmouth, NJ b. Travel  TBD  TBD/Various sites  49  45  1-4Q  60  60  Continue Continue Continue  Continue	. Product Development	Method &				Award		Award		Award			Targe Value o Contrac
Subtotal:    Support Cost   Contract Method & Type   Total Pry Cost Of Type   Total (INSCOM Full Spectrum)   TBD   TBD/Various sites   TBD/Various s	a . Labor (internal Gov't)			550	649	1-4Q	527	1-4Q	538	1-4Q	Continue	2264	Continu
I. Support Cost Contract Method & Location Pys Cost Cost Date Date Date Continue Continue Continue Continue Continue Continue Complete CECOM SEC Omnibus)  I. Support Cost Cost Cost Cost Cost Deforming Activity & Total Pys Cost Cost Description Pys Cost Cost Description Pys Cost Date Date Date Date Cost Description Pys Cost Description Date Date Date Continue Continue Continue Continue Continue Continue Continue Continue Continue CECOM RDEC T&E CECOM SEC Omnibus)	b . Travel	TBD	TBD/Various sites	49	45	1-4Q	60		60		Continue	Continue	Continu
I. Support Cost    Contract Method & Type   Performing Activity & Pys Cost   Pys Cost   Cost Date   Pys Cost   Cost Date   Pys Cost   Cost Date   Pys Cost Dat	0.11.1			599	694		587		598		Continue	Continue	Continu
(CECOM RDEC T&E CECOM SEC Omnibus)	a . Development Support	Method & Type	Location	PYs Cost	Cost	Award Date	Cost	Award	Cost	Award Date	Complete	Cost	Targe Value o Contra Continu
CECOM SEC Omnibus)						1-3Q		Date		1-4Q			Continu
876 999 737 451 Continue Continue Continue		TBD	I BD/ Various sites										
Subtotal:	(CECOM RDEC T&E	TBD	TBD/Various sites										

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	ARM	Y RDT&E COS	ST AN		` '				Feb	ruary 20		
BUDGET ACTIVITY <b>5 - System Develo</b> p	ment and	d Demonstration			UMBER ANI <b>)4270A -</b>		ELOPME	ENT			PROJEC <b>L15</b>	
II. Test and Evaluation	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			Targe Value o Contrac
a . Labor and ranges	TBD	TBD	0	0		500	1-4Q	0		0	500	
Subtotal:			0	0		500		0		0	500	(
V. Management Services	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			Targe Value o Contrac
a . Labor (Int and Contact)		CECOM and INSCOM	409	412	1-4Q	412	1-4Q	311	1-4Q	Continue	Continue	Continue
Subtotal:			409	412		412		311		Continue	Continue	Continue
Project Total Cost:			1884	2105		2236		1360		Continue	Continue	Continue

0604270A (L15) ARAT-TSS Item No. 81 Page 22 of 34 388 Exhibit R-3 Cost Analysis

ARMY RDT&E BUDGET ITEM JUS	STIFIC	ATION	(R-2A	Exhib	it)	Fe	ebruary :	2004	
BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER <b>0604270<i>F</i></b>			MENT			PROJECT <b>L16</b>	
COST (In Thousands)	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 Cost
L16 TROJAN DEVELOPMENT	133	1460	1463	1556	1556	1576	1608	Continuing	Continuing

A. Mission Description and Budget Item Justification: This project is a Tactical Intelligence and Related Activities (TIARA) program. TROJAN RDT&E supports TROJAN Classic XXI (TCXXI) future capabilities to fulfill the Army's need for a worldwide, deployable, remotable, intelligence, surveillance and reconnaissance (ISR) support that can dynamically execute operations from sanctuary-based to deployed assets in theater. In support of the Objective Force and Future Combat System (FCS), TCXXI will provide soldiers with a real-world, hands-on, live and near-real time SIGINT training environment sustaining, maintaining and enhancing their military occupational specialty (MOS) proficiencies and specific target expertise. This operational readiness training will fulfill the Army's larger intelligence training requirement via a secure collaborative architecture.

A key factor for success the Objective Force and FCS will be the ability to collect, process and use information about an adversary while preventing similar information from being disclosed. TROJAN is a combined operational and readiness mission system which uses advanced networking technology to provide seamless rapid radio relay, secure communications to include voice, data, facsimile, and electronic reconnaissance support to U.S. forces throughout the world. TROJAN operations may be easily tailored to fit military intelligence unit training schedules and surged during specific events to involve every aspect of the tactical intelligence collection, processing, analysis and reporting systems. This project engineers, tests and evaluates new digital intelligence collection, processing and dissemination technology using the fielded TROJAN systems, prior to the acquisition of those technologies. As part of the Objective C4ISR Architecture, these capabilities will enable processing and dissemination of real-time intelligence data from various sources to form the intelligence needed to issue orders inside the threat decision cycle. To that end, it is imperative that TROJAN keeps pace with digitization initiatives in order to respond aggressively to the emerging intelligence communication threats

Accomplishments/Planned Program	FY 2003	FY 2004	FY 2005
Conduct operational testing and evaluation of previously developed special processing devices and software with enhanced	429	0	0
signal processing algorithms.			
Integrate and test specialized hardware/software for classified pre-processing of new signals of interest utilizing enhanced	0	500	500
signal processing algorithms.			
Acquire and apply multi-bandwidth compression algorithm technology to maximize TROJAN intelligence network throughput.	500	0	0
Develop prototype QRC Receiver packages for fixed and transportable TROJAN systems to acquire non-standard modulations	0	560	713
using DSP and FPGA technologies.			
Integrate Direction Finding (DF) and geolocation technologies into TROJAN Remote Receiving Groups (RRGs).	406	400	250

ARMY RDT&E BUDGET ITE	EM JUSTIFI	CATIO	ON (R-	2A Ex	hibit)		February 2004					
BUDGET ACTIVITY 5 - System Development and Demonstration	on		BER AND T <b>70A - EV</b>		LOPMEN	IT		ECT				
Accomplishments/Planned Program (continued) Investigate compression/processing technologies to reduce c systems, including streaming audio technologies.	communications band	lwidth requi	rements for	remoted T	ROJAN		FY 200	FY 2004 0 0	FY 2005 0			
Totals			1335 1460					1463				
B. Other Program Funding Summary	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost			
OPA BA0331 Trojan	4873	5052	5186	5261	5365	0	0	0	30594			

C. Acquisition Strategy: This Acquisition Strategy for the TROJAN Classic XXI System supported by TROJAN RDT&E is to adapt and leverage from Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) products. Additionally leverage off of development by DoD and other Government agencies to the greatest extend possible. TROJAN RDT&E is used to fund the development of enhancing these technologies to meet specific user requirements. The funding for production and fielding of these capabilities are funded under TROJAN BA0331.

0604270A (L16) TROJAN DEVELOPMENT Item No. 81 Page 24 of 34

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Exhibit R-2A

Budget Item Justification

Method & Location PYs Cost Cost Award Date Date Cost Date Date Cost Date Date Cost Date Date Cost Date Cost Date Cost Date Cost Date Date Cost Dat	BUDGET ACTIVITY		Y RDT&E CO	OI AII	PE N	UMBER AN				Feb	ruary 20	PROJEC		
Method & Location Prys Cost Cost Award Date Date Date Date Date Date Date Date	5 - System Develop	oment and	d Demonstration		06	04270A -	EW DEV	'ELOPME	ENT	L16				
a . Develop Prototype QRC Receiver packages	. Product Development	Method &				Award		Award		Award			Targe Value o Contrac	
Capabilities for TROJAN RRG  c. Investigate Compression / processing technologies  MIPR CERDEC I2WD Ft Monmouth  894 406 960 963 Continue 3223			<b>I</b>	106	206		760	2-3Q	863	2-3Q	Continue	1935	Continu	
Compression /processing technologies    Monmouth   894   406   960   963   Continue   3223   Continue   Contin	Capabilities for TROJAN	MIPR		150	100	2Q	0	2-3Q	0	1-2Q	Continue	250	Continu	
Subtotal:    Contract   Performing Activity &   Total   Pys Cost   Cost   Award   Date   Date   Date   Continue   Continu	Compression /processing	MIPR	<b>I</b>	638	100		200		100		Continue	1038	Continu	
II. Support Cost  Contract Method & Location  A Aquire & Apply muliti bandwidth compr Algorithm  Contract Method & Contract Type  Contract Method & Location  Performing Activity & Total PYs Cost Cost Award Date  PYs Cost Cost Cost Award Cost Award Date  Total PYs Cost Cost Award Cost Award Date  Contract Method & Cost To Cost To Contract Award Date  Pys Cost To Cost To Cost To Continue C	Subtotal			894	406		960		963		Continue	3223	Continu	
a . Aquire & Apply muliti MIPR CECOM I2WD FT 0 500 3Q 0 0 Continue Continue handwidth compr Algorithm CECOM I2WD FT 0 500 3Q 0 Continue Co	I. Support Cost	Method &				Award		Award		Award			Targe Value (	
	bandwidth compr			0	500		0	Date	0	Date	Continue	Continue	Continu	
Subtotal: 0 500 0 0 Continue Continue Continue	Subtotal:			0	500		0		0		Continue	Continue	Continu	

	7 (1 (10)	Y RDT&E CO			an ann in	D THEFT IS			. 0.0	ruary 20		N.C.
BUDGET ACTIVITY 5 - System Develop	ment and	d Demonstration			iumber ani <b>04270A -</b>		ELOPME	ENT			PROJEC <b>L16</b>	
II. Test and Evaluation	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		Total Cost	Targe Value o Contrac
a . Integrate/test hardware/software	MIPR	CECOM I2WD FT Monmouth	500	0		500	2-3Q	500	2-3Q	Continue	1500	Continue
b . Operational test/eval of enhanced SIG Processing	MIPR	CECOM I2WD Ft Monmouth	0	429	3Q	0		0		Continue	Continue	Continue
Subtotal:			500	429		500		500		Continue	Continue	Continue
Subtotal:  IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	429 FY 2003 Cost	FY 2003 Award Date	500 FY 2004 Cost	FY 2004 Award Date	500 FY 2005 Cost	FY 2005 Award Date		Continue Total Cost	Targe Value o Contrac
	Method &		Total	FY 2003	Award Date	FY 2004	Award	FY 2005	Award	Cost To	Total	Targe Value o
IV. Management Services	Method &		Total PYs Cost	FY 2003 Cost	Award Date	FY 2004 Cost	Award	FY 2005 Cost	Award	Cost To Complete	Total Cost	Targe Value o Contrac

ARMY RDT&E BUDGET ITEM JUS	STIFIC	CATION	(R-2A	Exhib	it)	Fe	ebruary 2	2004	
BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER <b>0604270<i>F</i></b>			MENT			PROJECT <b>L20</b>	
COST (In Thousands)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to	Total Cost
	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
L20 ATIRCM/CMWS		0 7139	7137	10747	14490	14418	10862	Continuing	Continuing

A. Mission Description and Budget Item Justification: The ATIRCM is a U.S. Army program to develop, test, and integrate defensive infrared (IR) countermeasures capabilities into existing, current generation host platforms, which includes the MH-60/MH-47, AH-64D, UH-60 and CH-47F, for more effective protection against a greater number of IR guided missile threats than afforded by currently fielded IR countermeasures. The US Army operational requirements concept for IR countermeasure systems is known as the Suite of Integrated Infrared Countermeasures (SIIRCM). It is an integrated warning and countermeasure system to enhance aircraft survivability against IR guided threat missile systems. The core element of the SIIRCM concept is the Advanced Threat Infrared Countermeasure (ATIRCM)/Common Missile Warning System (CMWS) program. The ATIRCM, a subsystem to a host aircraft, is an integrated ultra-violet (UV) missile warning system and an IR Lamp/Laser Jamming and Improved Countermeasure Dispenser (ICMD).

The CMWS also functions as a stand-alone system with the capability to detect missiles and provide audible and visual warnings to the pilot(s), and, when installed with the ICMD, activates expendables to provide a degree of protection. This system supports the Current-to-Future transition path of the Transformation Campaign Plan (TCP).

FY05 funding supports continued P3I efforts for multi-band laser/laser miniaturization.

Accomplishments/Planned Program	FY 2003	FY 2004	FY 2005
Contractor Built-in-Test (BIT)/Reliability Demo Testing (RDT)	0	1623	0
RDT support	0	720	0
Developmental Testing/Operational Testing	0	1623	0
User Test support	0	2884	0
Operational testing	0	0	3537
Multi-band laser/Laser miniaturization	0	0	3373
Project Management	0	221	227
Congressional Adjustments	0	68	0
Totals	0	7139	7137

ARMY RDT&E BUDGET ITEM .	JUSTIFI	CATIO	ON (R-	2A Ex	hibit)		Febru	ary 2004	
BUDGET ACTIVITY 5 - System Development and Demonstration			BER AND T <b>70A - EV</b>		OPMEN	IT		PROJE <b>L20</b>	ECT
B. Other Program Funding Summary	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
APA, BA 4 AZ3507 ASE Infrared CM	0	75151						2551068	3206169
OSD Procurement, PE 1160444BB	21474	0	0	0	0	0	0	0	21474

C. Acquisition Strategy: The EMD contract competitively awarded in FY 1995. The AAE approved the Limited Procurement Urgent (LPU) for acquisition of the CMWS capability for Special Operations Force (SOF) aircraft in March 02. An Army Systems Acquisition Review Council (ASARC) resulted in a milestone C Low Rate Initial Production (LRIP) decision in November 2003, approving the program's entry into LRIP. The LRIP procurement acquisition strategy will be sole source, fixed price procurement. Funding supports an acquisition strategy of buying CMWS separately from ATIRCM, while installing A-kits on all modernized aircraft. FY05 RDTE funds support ATIRCM/CMWS P3I efforts.

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Exhibit R-2A
Budget Item Justification

### ARMY RDT&E COST ANALYSIS(R3)

February 2004

BUDGET ACTIVITY

**5 - System Development and Demonstration** 

PE NUMBER AND TITLE

0604270A - EW DEVELOPMENT

PROJECT **L20** 

. 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	Total Cost	Target Value of Contract
a . Thiokol (AIRCMM)	C/CPIF	Brigham City, UT	1563	0		0		0		0	1563	1563
b . BAE Systems (ATIRCM) EMD basic contract	C/CPAF	Nashua, NH	23574	0		0		0		0	23574	171784
c . BAE Systems (ATIRCM) T&M efforts- Reliability Demonstration Testing	C/CPFF	Nashua, NH	40412	0		1623	3Q	0		0	42035	42050
d . BAE Systems (ATIRCM) 6 ATIRCM	SS/CPFF	Nashua, NH	14640	0		0		0		0	14640	14640
e . Cowley (ATIRCM)	C/CPFF	Chantilly, VA	100	0		0		0		0	100	100
f . Test Facility - Amherst	C/CPFF	Huntsville, AL	1300	0		0		0		0	1300	1300
g . Other	Various	Various	1062	0		0		0		0	1062	1062
h . BAE Systems ATIRCM Multi-band laser & Miniaturization	SS/CPFF	Nashua, NH	0	0		0		3373	2Q	0	3373	3373
Subtotal:			82651	0		1623		3373		0	87647	235872

Remarks: FY99 & Prior funding in Project 665

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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 0604270A - EW DEVELOPMENT L20 II. Support Cost Contract Performing Activity & Total FY 2003 FY 2003 FY 2004 FY 2004 FY 2005 FY 2005 Cost To Total Target Method & Location PYs Cost Cost Cost Complete Cost Value of Award Award Cost Award Contract Type Date Date Date a . Modeling & Simulation C/FFP Huntsville, AL 600 0 0 0 600 600 Contractor Support b. Contractor Support C/FFP Huntsville, AL 9554 0 0 9554 9554 c . Matrix Support **MIPR** CECOM, Fort 3055 n 0 n 3055 0 Monmouth NJ: AMCOM. Huntsville. 0 0 13209 13209 10154 Subtotal: III. Test and Evaluation Performing Activity & Total FY 2003 FY 2003 FY 2004 FY 2004 FY 2005 FY 2005 Cost To Total Contract Target Method & Location PYs Cost Cost Award Cost Award Cost Award Complete Cost Value of Type Date Date Date Contract a . EPG support MIPR Ft. Huachuca, AZ 5925 0 1623 2-4Q 0 7548 b . Operational Test 0 13153 0 **MIPR** Various 6732 1-4Q 3537 1-4Q 2884 Center User test c . ATTC test support **MIPR** Fort Rucker, AL 2504 0 0 2504 0 d. Neer/Thomsen/O2K C/FFP Huntsville, AL 2663 0 0 2663 2663 contractor test support

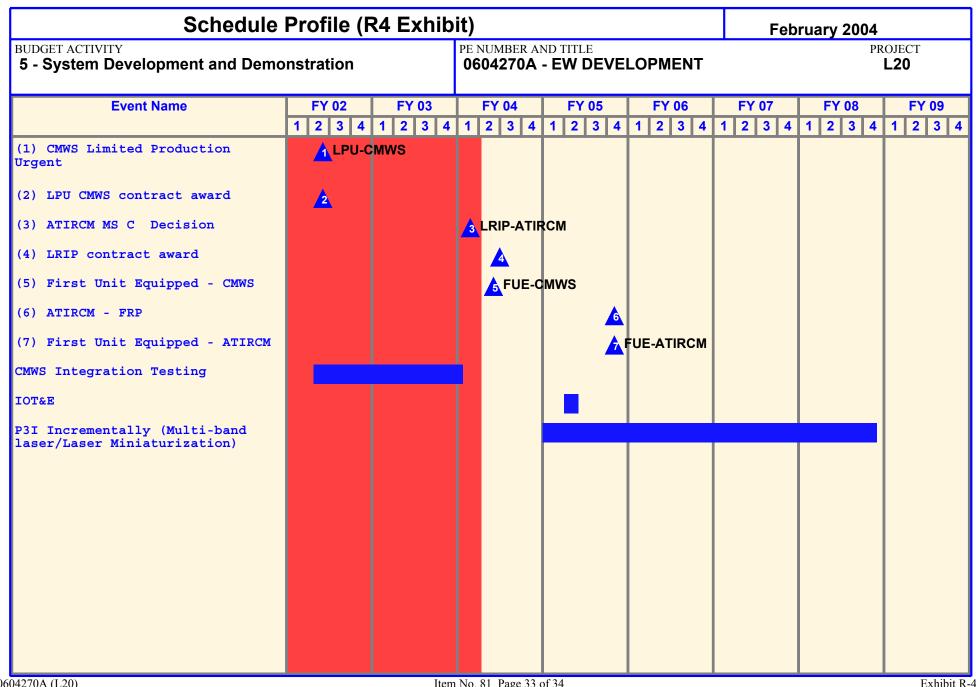
0604270A (L20) ATIRCM/CMWS Item No. 81 Page 30 of 34 396

### **ARMY RDT&E COST ANALYSIS(R3)** February 2004 PROJECT BUDGET ACTIVITY PE NUMBER AND TITLE 5 - System Development and Demonstration 0604270A - EW DEVELOPMENT L20 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 & Location PYs Cost Cost Award Cost Award Cost Award Complete Cost Value of (continued) Type Date Date Date Contract e . Westar test support C/FFP Huntsville, AL 559 0 0 559 559 f. PM ITTS/46TH Test 0 **MIPR** Eglin AFB, FL 2800 0 0 2800 0 Wing (Eglin AFB) g. RTTC 0 **MIPR** Redstone Arsenal, AL 400 0 720 3-4Q 0 1120 0 0 0 h. Other **MIPR** 105 105 0 0 5227 3537 30452 3222 21688 Subtotal: FY 2003 FY 2003 FY 2004 FY 2004 FY 2005 FY 2005 Cost To Target IV. Management Services Contract Performing Activity & Total Total PYs Cost Method & Location Cost Award Cost Cost Award Complete Cost Value of Award Type Date Date Date Contract PM AES, Huntsville, a . Project Management 5336 221 227 5784 In house 0 2Q 1Q 0 support AL b . Congressional n 68 1Q 68 0 Adjustments 5336 0 289 227 0 5852 0 Subtotal:

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AF	Fe	bruary 2004						
DDGET ACTIVITY - System Development	on	PE NUMBER AND TITLE PROJ 0604270A - EW DEVELOPMENT L2						
Project Total Cost:		122884	0	7139	7127	0 137160	24924	
Project Total Cost:		122884	0	7139	7137	0 137160	24924	

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Schedule Detail (R4a l		February 2004						
BUDGET ACTIVITY 5 - System Development and Demonstration		ER AND TIT <b>0A - EW</b>	Т	PROJECT <b>L20</b>				
Schedule Detail	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
CMWS Limited Production Urgent								
LPU CMWS Contract Award								
ATIRCM Milestone C Decision		1Q						
LRIP contract award		2Q						
First Unit Equipped - ATIRCM		2Q						
ATIRCM - FRP			4Q					
First Unit Equipped - ATIRCM			4Q					
CMWS Integration Testing	1-4Q							
IOTE			2Q					
P3I Incrementally 9Multi-band laser/Laser Miniaturization)			1-4Q	1-4Q	1-4Q	1-3Q		