

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)

June 2001

BUDGET ACTIVITY

**5 - ENG MANUFACTURING DEV**

PE NUMBER AND TITLE

**0604270A - EW Development**

COST (In Thousands)		FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost		77510	69413	57010	0	0	0	0	0	0	0
2VT	ATIRCM/CMWS OPERATIONAL TEST	806	0	0	0	0	0	0	0	0	0
665	A/C SURV EQUIP DEV	12256	23514	8148	0	0	0	0	0	0	0
L12	SIGNALS WARFARE DEVELOPMENT (TIARA)	16998	4939	1747	0	0	0	0	0	0	0
L15	ARAT-TSS	0	0	1908	0	0	0	0	0	0	0
L16	TROJAN DEVELOPMENT	0	0	1406	0	0	0	0	0	0	0
L20	ATIRCM/CMWS	47450	40960	43801	0	0	0	0	0	0	0

## **A. Mission Description and Budget Item Justification:**

**PLEASE NOTE:** This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

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 threat technical advancements. 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) requirements, attack/scout, and assault/cargo mission requirements. Prophet provides for development of multifunction ground based and airborne intelligence and electronic warfare systems. Trojan developments will complete Proof-of-Principle R&D for specific Trojan applications in advanced threat signals processing and prototype software upgrades; high frequency (HF) algorithms for compact antenna array technology (CAAT) configured into small aperture antenna arrays; 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 Legacy-to-Objective transition path of the Transformation Campaign Path (TCP).

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<u><b>B. Program Change Summary</b></u>	FY 2000	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2001 PB)	78603	61056	37121	0
Appropriated Value	80603	70056	0	
Adjustments to Appropriated Value	0	0	0	
a. Congressional General Reductions	0	0	0	
b. SBIR / STTR	-1437	0	0	
c. Omnibus or Other Above Threshold Reprogrammings	0	0	0	
d. Below Threshold Reprogramming	-1376	0	0	
e. Rescissions	-280	-643	0	
Adjustments to Budget Years Since FY2001 PB	0	0	19889	
Current Budget Submit (FY 2002/2003 PB )	77510	69413	57010	0

Change Summary Explanation:  
FY02/03 Realign funds to higher Army priority.

<b>ARMY RDT&amp;E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)</b>							<b>June 2001</b>			
BUDGET ACTIVITY <b>5 - ENG MANUFACTURING DEV</b>				PE NUMBER AND TITLE <b>0604270A - EW Development</b>				PROJECT <b>665</b>		
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
665      A/C SURV EQUIP DEV	12256	23514	8148	0	0	0	0	0	0	0
<p><b><u>A. Mission Description and Budget Item Justification:</u></b> Aircraft Survivability Equipment Development provides for the development and system integration of Radio Frequency (RF) Countermeasures Aircraft Survivability Equipment (ASE) to achieve survivability, reduce vulnerability, and enhance combat effectiveness required to fulfill all Army aircraft mission requirements. Equipment will increase combat effectiveness and potential for mission accomplishment by reducing or eliminating the ability of threat air defense systems to detect, hit, track, damage or destroy Army aircraft. Developments respond to the approved requirement documents, test and type classification for production and fielding of RF systems to integrate with infrared, radar, laser and optical/electro-optical and other on-board sensors. Efforts in development include new or upgraded systems to counter monopulse, millimeter wave, pulse doppler and continuous wave radars. Continual adjustments are made to this program to meet the changing and evolutionary nature of technology and threat. This program has joint service applications that are coordinated through the Joint Technical Coordinating Group for Aircraft Survivability (JTCG/AS), as well as NATO applications coordinated through DOD. This project also provides the technical base for electronic warfare equipment for Apache, Blackhawk, Chinook, Comanche and Special Operations Aircraft. The Suite of Integrated Radio Frequency Countermeasures (SIRFC) system is necessary to the survival of the AH-64, MH-47E, MH-60K, RC-12K, EH-60, UH-60 and CH-47D aircraft. It is an Office of the Secretary of Defense (OSD) oversight program with high joint interest. The Air Force Special Operations Command (AFSOC) selected SIRFC as CV-22 EW bus controller and sensor fusion processor. The SIRFC EMD schedule is connected to the CV-22 development and test schedule and is monitored closely by U.S. Special Operations Command (SOCOM) and it has application to both Air Force and Navy aircraft. The SIRFC system key capabilities include advanced threat radar warning, advanced threat radar jammer, sensor data fusion and lightweight modular design. This system supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).</p> <p><b><u>FY 2000 Accomplishments</u></b></p> <ul style="list-style-type: none"> <li>•      11791      Continued EMD of SIRFC</li> <li>•      233        Initiated Technology Insertion program/P3I</li> <li>•      232        Continued in-house and program management administration</li> </ul> <p>Total 12256</p>										

<b>ARMY RDT&amp;E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)</b>		<b>June 2001</b>
BUDGET ACTIVITY <b>5 - ENG MANUFACTURING DEV</b>	PE NUMBER AND TITLE <b>0604270A - EW Development</b>	PROJECT <b>665</b>
<p><b><u>FY 2001 Planned Program</u></b></p> <ul style="list-style-type: none"> <li>• 9000 Conduct Production Engineering Planning/Technology Insertion/Obsolescence</li> <li>• 8795 Complete EMD</li> <li>• 4807 Conduct Testing</li> <li>• 281 Continue in-house and program management administration</li> <li>• 631 Small Business Innovative Research/Small Business Technology Transfer</li> </ul> <p>Total 23514</p> <p><b><u>FY 2002 Planned Program</u></b></p> <ul style="list-style-type: none"> <li>• 4917 Continue Technology Insertion Program/Obsolescence/P3I</li> <li>• 3000 Conduct IOT&amp;E</li> <li>• 231 Continue in-house and program management administration</li> </ul> <p>Total 8148</p>		

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PROJECT

**665**

## B. Other Program Funding Summary

	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
APA, BA 4 AZ3508 ASE	3027	0	32780	0	0	0	0	0	0	0
APA, BA 2 AA0720 ASE Modifications	8793	4446	0	0	0	0	0	0	0	0

**C. Acquisition Strategy:** The SIRFC LRIP decision is scheduled for the 2nd Quarter of FY02. Milestone III is scheduled for the 2nd Quarter of FY03. Both contractual actions will be sole-source.

## D. Schedule Profile

	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Complete EMD		4Q		0	0	0	0	0
Complete Limited User Test (LUT)			1Q	0	0	0	0	0
Low Rate Initial Production (LRIP)			2Q	0	0	0	0	0
Complete IOT&E			4Q	0	0	0	0	0
Milestone III Decision				0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604270A - EW Development					PROJECT 665		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . SIRFC EMD Contract - ITT Corp	C/CPAF	CECOM, Ft. Monmouth, NJ	95042	8625	2Q	0		0	0	0	0	0
b . EMD Support	MIPR	CECOM, Ft. Monmouth, NJ	0	170	1Q	0		0	0	0	0	0
Subtotal:			95042	8795		0		0		0	0	0
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Initiate Technology Insertion/P3I - ITT	C/CPFF	CECOM, Ft. Monmouth, NJ	233	0		0		0	0	0	0	0
b . Conduct PEP/Technology Insertion/Obsolescence - ITT	C/CPFF	CECOM, Ft. Monmouth, NJ	0	9000	2Q	0		0	0	0	0	0
c . Continue Technology Insertion Program/ Obsolesence/P3I	C/CPFF	CECOM, Ft. Monmouth, NJ	0	0		4917	2Q	0	0	0	0	0
d . Continue Technology Insertion Program/P3I	C/CPFF	CECOM, Ft. Monmouth, NJ	0	0		0		0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604270A - EW Development					PROJECT 665		
II. Support Cost (continued)	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			233	9000		4917		0		0	0	0
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Conduct Testing	MIPR	Multiple	1216	2609	2Q	0		0	0	0	0	0
b . Radio Frequency Simulation System Test - ITT	C/CPFF	CECOM, Ft. Monmouth, NJ	212	300	2Q	0		0	0	0	0	0
c . Longbow Apache Testing	C/CPFF	AMCOM, Redstone Arsenal, AL	75	1898	2Q	0		0	0	0	0	0
d . IOT&E	MIPR	Multiple	0	0		3000	2Q	0	0	0	0	0
Subtotal:			1503	4807		3000		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604270A - EW Development					PROJECT 665		
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Project Management	MIPR	Various	232	281	1Q	231	1Q	0	0	0	0	0
b . SBIR/STTR			0	631	1Q	0		0	0	0	0	0
Subtotal:			232	912		231		0		0	0	0
Project Total Cost:			97010	23514		8148		0		0	0	0



ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								June 2001		
BUDGET ACTIVITY <b>5 - ENG MANUFACTURING DEV</b>				PE NUMBER AND TITLE <b>0604270A - EW Development</b>					PROJECT <b>L12</b>	
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
L12 SIGNALS WARFARE DEVELOPMENT (TIARA)	16998	4939	1747	0	0	0	0	0	0	0
<p><b><u>A. Mission Description and Budget Item Justification:</u></b> Within Product Manager Prophet's domain are two programs PROPHET and the Division TUAV SIGINT Payload (DTSP).</p> <p>PROPHET primary mission is to provide 24-hour Force Protection (FP) to the maneuver brigade. It will be the echelons Division and below tactical commanders sole organic Multi-Sensor Signals Intelligence system. Prophet (in it's final configuration) will provide the tactical commander the next generation Signals Intelligence /Electronic Warfare (SIGINT/EW), Measurement and Signature Intelligence (MASINT) and Ground Surveillance capability. PROPHET will operate in direct support (DS) to the maneuver brigade at Division, Brigade Combat Team (BCT), Armored Cavalry Regiments (ACR) and Separate Infantry Brigade (SIB). PROPHET provides for replacement of the legacy Trailblazer, Traffic Jam and Teammmate systems. These systems are currently deployed as divisional assets and will be replaced with the Prophet systems. It is being designed to support the Army Transformation and is an integral force multiplier supporting the Brigade Commander's scheme of maneuver for the Interim and Objective forces. Prophet will provide the Tactical Commander with an enhanced capability for situational awareness, electronic Intelligence Preparation of the Battlefield (IPB), battlespace visualization, target development, and force protection throughout the division's width and depths in the Objective Force. Prophet will interface with the division and armored cavalry Analysis Control Element's (ACE) All Source Analysis System (ASAS) as well as the maneuver brigade Analysis Control Team's (ACT) Common Ground Station (CGS) and/or ASAS-Remote Work Stations (ASAS-RWS) providing near-real-time (NRT) digital inputs to the common operating picture (COP). Tactical Commanders will receive added force protection through Prophet's capability of providing reports of intercepted voice communications to the supported units from the Prophet assets. Prophet will be developed in a Block approach and will include Block I - Electronic Support (ES) (COMINT), Block II - Electronic Attack (EA), Block III - Low Probability of Intercept (LPI), Block IV - SIGINT/MASINT Fusion and Block V - Micro-Sensors and Robotics capabilities.</p> <p>The Division TUAV SIGINT Payload (DTSP) program is the division and Armored Cavalry Regiment (ACR) commanders Signals Intelligence /Electronic Warfare (SIGINT/EW) system. DTSP will provide the Tactical commander more flexible, responsive airborne reconnaissance and battle management capabilities. DTSP components will include a ground-sensor, an unmanned aerial vehicle (UAV) and a ground control/processing facility, the Army's future Distributed Common Ground System - Army (DCGS-A). Once implemented DCGS-A will allow Prophet and DTSP to operate in a networked environment. DTSP will also include the remote control of airborne sensors and electronically map the enemy's communications and radar systems in the Divisions' Area of Operations.</p> <p>The DTSP Component Advanced Development Phase is funded under PE 63774/Project 131. This PE/Project funds the Prophet development efforts and the DTSP System Development and Demonstration Phase (SDDP) efforts.</p>										

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<p>FY02 funds provide for continued Risk Mitigation for Prophet Block III LPI and for the DT/IOTE of Prophet Block II EA. FY03 funds begin the Prophet Block III LPI SDDP and initiates the DTSP SDDP. The Prophet System supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP). The DTSP supports the Objective transition path of the Transformation Campaign Plan (TCP).</p>		
<b><u>FY 2000 Accomplishments</u></b>		
<ul style="list-style-type: none"> <li>• 4787      Awarded EMD contract for Prophet Block II Electronic Attack (EA)</li> <li>• 5850      Prepared for and conduct Prophet Block I (ES) Developmental Test (DT) and IOT&amp;E</li> <li>• 1551      Conducted Risk Mitigation for Division TUAV SIGINT Payload Design Approachs and Prophet Block III, Low Probability of Intercept (LPI)</li> <li>• 1551      Performed integration required for Prophet Block I/II in support of the Army Transformation Strategy</li> <li>• 3259      Continued development of Prophet Block I ES (COMINT)</li> </ul>		
Total 16998		
<b><u>FY 2001 Planned Program</u></b>		
<ul style="list-style-type: none"> <li>• 1241      Complete Prophet Block I ES (COMINT) DT/IOT&amp;E and Block II EA Characterization Test</li> <li>• 2272      Award Block II EA Follow-On SDDP Contract</li> <li>• 156      Continue Risk Mitigation for Prophet Block III LPI</li> <li>• 270      Conduct SSEB for Prophet Block II EA Follow-On Contract</li> <li>• 1000      Risk Mitigation &amp; Demonstration of Data Transport Capabilities between Prophet, DTSP and DCGS-A</li> </ul>		
Total 4939		

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PROJECT

**L12**

## FY 2002 Planned Program

- 1200 Conduct DT/IOT&E for Prophet Block II EA
- 275 Complete Risk Mitigation for Prophet Block III LPI
- 272 Prepare for and conduct Milestone B IPR for Prophet Block III LPI Contract and Begin SSEB efforts

Total 1747

<u>B. Other Program Funding Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
OPA (SSN BZ9750)	10651	218	0	0	0	0	0	0	0	0
OPA (SSN BZ7326)	0	11159	15734	0	0	0	0	0	0	0
RDTE (PE 63774 131) - Division TUAV SIGINTProgram only	0	6936	8000	0	0	0	0	0	0	0
RDTE PROPHET DCP (030885G)	11735	7775	3916	0	0	0	0	0	0	0

**C. Acquisition Strategy:** The Prophet and the Division TUAV SIGINT Program (DTSP) Acquisition Strategies are structured to optimize system capability while reducing risk and streamlining business and engineering processes. Prophet is being developed using a Block Approach consisting of: Block I, Electronic Support (ES) COMINT; Block II, Electronic Attack (EA); Block III, Low Probability of Intercept (LPI); Block IV, SIGINT/MASINT Fusion; and Block V, Micro-Sensors and Robotics. Block I ES (COMINT) Engineering and Manufacturing Development (EMD) was a sole source effort which leveraged off existing COTS equipment. The Block I Production will be a competitive FFP contract. Block II EA EMD was awarded as a competitive contract in 3Q FY00. Block III LPI, will be a competitive award in FY03. Blocks IV and V will also be competitively awarded. The DTSP System Development and Demonstration Phase contract is currently planned to be competitively awarded.

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PROJECT

**L12**

<b><u>D. Schedule Profile</u></b>	<b>FY 2000</b>	<b>FY 2001</b>	<b>FY 2002</b>	<b>FY 2003</b>	<b>FY 2004</b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>
Begin Prophet Block II EA EMD	3Q			0	0	0	0	0
Conduct Prophet Block I ES (COMINT) IOTE	4Q	1Q		0	0	0	0	0
Conduct Prophet Block II EA Characterization Test		2Q		0	0	0	0	0
FRP Decision for Prophet Block I ES (COMINT)		2Q		0	0	0	0	0
Award Prophet Block I ES (COMINT) Production Contract		3Q		0	0	0	0	0
Award Prophet Block II EA Follow-On SDDP Contract		4Q		0	0	0	0	0
Conduct Prophet Block II EA DT/IOTE			2-3Q	0	0	0	0	0
FRP Decision for Prophet Block II EA			4Q	0	0	0	0	0
Milestone B Decision for Prophet Block III LPI			4Q	0	0	0	0	0
Award Prophet Block II EA Production Contract				0	0	0	0	0
Award Prophet Block III LPI SDDP Contract				0	0	0	0	0
Begin Division UAV SIGINT Program (DTSP) SDDP				0	0	0	0	0
Conduct Prophet Block III LPI IOT&E				0	0	0	0	0
Milestone B for Prophet Block IV SIGINT/MASINT Fusion				0	0	0	0	0
Award Prophet Block IV SIGINT/MASINT Fusion SDDP Contract				0	0	0	0	0
Milestone C Decision for Prophet Block III LPI				0	0	0	0	0
Award Prophet Block III LPI Production Contract				0	0	0	0	0
Conduct Prophet Block IV SIGINT/MASINT Fusion IOT&E				0	0	0	0	0
Milestone MS C for Prophet Block IV SIGINT/MASINT Fusion				0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604270A - EW Development					PROJECT L12		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Y2K for GBCS/MEWSS	C-CPFF	LMFS, Owego, NY	250	0		0		0	0	0	0	0
b . Refurbish HMMWV for Prophet	MIPR	Tobyhanna Army Depot, PA	1384	0		0		0	0	0	0	0
c . EA Study	C-CPFF	Rockwell Collins, Cedar Rapids, IA	315	0		0		0	0	0	0	0
d . Prophet Blocks I/II integration efforts to support the Army Transformation Strategy	C-CPFF	Delfin Sys Corp, Santa Clara, CA	1551	0		0		0	0	0	0	0
e . Prophet Block I ES (COMINT) Contract	C-CPFF	Delfin Sys Corp, Santa Clara, CA	3140	0		0		0	0	0	0	0
f . Prophet Block II EA Contract	C-FFP	Rockwell Collins, Cedar Rapids, IA	3767	0		0		0	0	0	0	0
g . Risk Mitigation UAV	T&M	BAE, Landsdale, PA	809	0		0		0	0	0	0	0
h . Risk Mitigation UAV	MIPR	PM UAV	742	0		0		0	0	0	0	0
i . Prophet Block II EA Follow-On SDDP Contract	C-CPFF	TBD	0	1950	4Q	0		0	0	0	0	0

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BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604270A - EW Development					PROJECT L12		
I. Product Development (continued)	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
j . Risk Mitigation & Demonstration of Data Transport Capabilities	SS-CPFF	L3Comm, Salt Lake City, Utah	0	1000	2Q	0		0	0	0	0	0
k . Prophet Block III LPI SDDP Contract	C-CPXF	TBD	0	0		0		0	0	0	0	Continue
l . Division TUAV SIGINT Program SDDP Contract	C-CPXF	TBD	0	0		0		0	0	0	0	Continue
m . Prophet Block III Risk Mitigation	MIPRs	Various	0	156	3Q	275	1Q	0	0	0	0	0
n . Prophet Studies & Analysis	MIPR	EPG/I2WD	1490	0		0		0	0	0	0	0
o . Other			4353	0		0		0	0	0	0	0
Subtotal:			17801	3106		275		0		0	0	Continue

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604270A - EW Development					PROJECT L12		
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Matrix Support	MIPR	HQ, CECOM	1320	433	1Q	150	1Q	0	0	0	0	Continue
b . Contractor Eng & Spt	FFP	Sytex; Doylestown PA	303	0		0		0	0	0	0	0
c . Contractor Eng & Spt	FFP	CACI; Falls Church VA	325	0		0		0	0	0	0	0
d . ASARC Spt	T&M	Computer Science Corp, Falls Church, VA	86	0		0		0	0	0	0	0
e . TSM/NSTO	MIPR	TSM, Ft Huachuaca, AZ	100	50	3Q	0		0	0	0	0	0
f . SSEB Support	MIPR	Various CECOM Matrix Organizations	0	0		170	3-4Q	0	0	0	0	0
g . Contractor Eng & Spt	TBD	TBD	0	0		0		0	0	0	0	Continue
Subtotal:			2134	483		320		0		0	0	Continue

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604270A - EW Development					PROJECT L12		
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Demonstrate COMINT & EA subsystems for Prophet	MIPR	EPG/other Gov	1015	0		0		0	0	0	0	0
b . Conduct Prophet Block I DT/IOT&E and Characterzation Test	MIPR	EPG	3594	0		0		0	0	0	0	0
c . Conduct Prophet Block II DT/IOT&E	MIPRs	EPG & AEC	0	0		800	1Q	0	0	0	0	0
d . Conduct Prophet Block I/II DT/IOT&E	MIPR	AEC/OTC/Misc.	2033	42	2Q	0		0	0	0	0	0
e . Prepare for Prophet Block III DT	MIPR	AEC/OTC	0	0		0		0	0	0	0	Continue
f . Prophet Block I ES (COMINT) DT/IOTE	T&M	Delfin Systems Corp, Santa Clara, CA	323	0		0		0	0	0	0	0
Subtotal:			6965	42		800		0		0	0	Continue



ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY <b>5 - ENG MANUFACTURING DEV</b>					PE NUMBER AND TITLE <b>0604270A - EW Development</b>					PROJECT <b>L12</b>		
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Program Management		PM, Signals Warfare	1766	1308	1Q	352	1Q	0	0	0	0	Continue
Subtotal:			1766	1308		352		0		0	0	Continue
Project Total Cost:			28666	4939		1747		0		0	0	Continue

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								June 2001		
BUDGET ACTIVITY <b>5 - ENG MANUFACTURING DEV</b>				PE NUMBER AND TITLE <b>0604270A - EW Development</b>					PROJECT <b>L15</b>	
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
L15 ARAT-TSS	0	0	1908	0	0	0	0	0	0	0
<p><b><u>A. Mission Description and Budget Item Justification:</u></b> 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.</p> <p><b><u>FY 2002 Planned Program</u></b></p> <ul style="list-style-type: none"> <li>350 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.</li> <li>450 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.</li> <li>200 Database Support (Flagging Model): Work jointly with the USAF at Kelly AFB, TX to initiate the conversion of the current flagging database structure shared by the US Army and USAF flagging models to a more modern database structure.</li> <li>200 Dissemination (EWOSS/MLV): Complete an upgrade of EWOSS 2000 communications tool for the field user by improving the classified connection capability and integrating all aspects of current MLV software as modules within the basic structure. In addition, develop training aids to facilitate the field user being able to successfully use this software without attending a formal training course.</li> </ul>										

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)

June 2001

BUDGET ACTIVITY

**5 - ENG MANUFACTURING DEV**

PE NUMBER AND TITLE

**0604270A - EW Development**

PROJECT

**L15**

## FY 2002 Planned Program (Continued)

- 708 Engineering Development, Intelligence Support, Database Support, & Dissemination (Common Intel Database): Define requirements for a common intelligence database analysis and MDS tool for use by ARAT-TA (Kelly and Eglin AFBs) and ARAT-SE. The functionality must include common user interface, intelligence inputs, modular threat analysis and MDS generator tools, and output formats to support intelligence reporting, RF scenarios inputs, and MDS inputs for EWOSS/MLV. leverage the use of existing tools such as the Major Radar Database (MRDB) as much as practical.

Total 1908

**B. Other Program Funding Summary:** Not applicable for this item.

**C. Acquisition Strategy:** The efforts to be funded in this project will require a combination of systems specific and high-tech knowledge. The contractual services portion for the project will be obtained from both the CECOM SEC competitive omnibus and the RDEC High Tech contracts.

<u>D. Schedule Profile</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
Engineering Development			1-4Q	0	0	0	0	0
Intelligence Support			3-4Q	0	0	0	0	0
Database Support			3-4Q	0	0	0	0	0
Dissemination			3-4Q	0	0	0	0	0
Engineering Development, Intelligence Support, Database Support, & Dissemination			1-4Q	0	0	0	0	0
Develop Relational DB for new threats to include Blue Signals				0	0	0	0	0
Transmission Paths.				0	0	0	0	0
Support Army and Joint Contingencies and Exercises in the area of Rapid reprogramming of TSS			1-4Q	0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604270A - EW Development					PROJECT L15		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Labor (internal Gov't)		CECOM, Fort Monmouth, NJ	0	0		550		0	0	0	0	0
b . Travel			0	0		49		0	0	0	0	0
Subtotal:			0	0		599		0		0	0	0
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Development Support (CECOM SEC Omnibus)	TBD	TBD/Various sites	0	0		300		0	0	0	0	0
b . Development Support (CECOM RDEC T&E)	TBD	TBD/Various sites	0	0		600		0	0	0	0	0
Subtotal:			0	0		900		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604270A - EW Development					PROJECT L15		
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
			0	0		0		0		0	0	0
Subtotal:												
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Labor (Int and Contact)		CECOM and ARAT-TA/LIWA	0	0		409		0	0	0	0	0
Subtotal:			0	0		409		0		0	0	0
Project Total Cost:			0	0		1908		0		0	0	0

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							June 2001				
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV			PE NUMBER AND TITLE 0604270A - EW Development					PROJECT L16			
COST (In Thousands)		FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
L16	TROJAN DEVELOPMENT	0	0	1406	0	0	0	0	0	0	0
<p><b>A. Mission Description and Budget Item Justification:</b> This project is a Tactical Intelligence and Related Activities (TIARA) program. A key factor in modern warfare is the ability to collect, process and use information about an adversary while preventing him from obtaining similar information. 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. The process that will enable the United States to win the battlefield information war is referred to as digitization. This capability will allow us to process and disseminate real-time intelligence data from various sources; it forms the intelligence needed to issue orders inside the threat decision cycle. To that end, it is imperative the TROJAN system keep pace with digitization initiatives in order to respond aggressively to the emerging intelligence communication threats.</p> <p><b>FY 2002 Planned Program</b></p> <ul style="list-style-type: none"> <li>500 Integrate and test specialized hardware/software for classified pre-processing of new signals of interest utilizing enhanced signal processing algorithms.</li> <li>650 Develop prototype QRC Receiver packages for fixed and transportable TROJAN systems to acquire non-standard modulations using DSP technologies.</li> <li>256 Investigate compression/processing technologies to reduce communications bandwidth requirements for remoted TROJAN systems.</li> </ul> <p>Total 1406</p>											

<b>ARMY RDT&amp;E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)</b>	<b>June 2001</b>
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**June 2001**

BUDGET ACTIVITY  
**5 - ENG MANUFACTURING DEV**

PE NUMBER AND TITLE <b>0604270A - EW Development</b>	PROJECT <b>L16</b>
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**L16**

<b><u>B. Other Program Funding Summary</u></b>	<b><u>FY 2000</u></b>	<b><u>FY 2001</u></b>	<b><u>FY 2002</u></b>	<b><u>FY 2003</u></b>	<b><u>FY 2004</u></b>	<b><u>FY 2005</u></b>	<b><u>FY 2006</u></b>	<b><u>FY 2007</u></b>	<b><u>To Compl</u></b>	<b><u>Total Cost</u></b>
OPA BA0331	7726	4235	4876	0	0	0	0	0	0	0

**C. Acquisition Strategy:** Not applicable for this item.

**D. Schedule Profile:** Not applicable for this item.

**D. Schedule Profile:** Not applicable for this item.

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604270A - EW Development					PROJECT L16		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Develop Prototype QRC Receiver packages	MIPR	CECOM I2WD Ft Monmouth	0	0		650		0	0	0	0	0
b . Develop DF Capabilities for TROJAN RRG	MIPR	CECOM I2WD Ft Monmouth	0	0		0		0	0	0	0	0
c . Investigate Compression /processing technologies	MIPR		0	0		256		0	0	0	0	0
Subtotal:			0	0		906		0		0	0	0
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Aquire & Apply muliti bandwidth compr Algorithm	MIPR	CECOM I2WD FT Monmouth	0	0		0		0	0	0	0	0
Subtotal:			0	0		0		0		0	0	0



ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY <b>5 - ENG MANUFACTURING DEV</b>					PE NUMBER AND TITLE <b>0604270A - EW Development</b>					PROJECT <b>L16</b>		
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Integrate/test hardware/software	MIPR	CECOM I2WD FT Monmouth	0	0		500		0	0	0	0	0
b . Operational test/eval of enhanced SIG Processing	MIPR		0	0		0		0	0	0	0	0
Subtotal:			0	0		500		0		0	0	0
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0
Project Total Cost:			0	0		1406		0		0	0	0

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								June 2001		
BUDGET ACTIVITY <b>5 - ENG MANUFACTURING DEV</b>				PE NUMBER AND TITLE <b>0604270A - EW Development</b>					PROJECT <b>L20</b>	
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
L20 ATIRCM/CMWS	47450	40960	43801	0	0	0	0	0	0	0
<p><b><u>A. Mission Description and Budget Item Justification:</u></b>The Advanced Threat Infrared Countermeasure/Common Missile Warning System (ATIRCM/CMWS) is a U. S. Army program to develop, test and integrate defensive infrared (IR) countermeasures capabilities into existing, current generation host platforms for more effective protection against a greater number of IR guided missile threats than afforded by currently fielded IR countermeasures. The CMWS component system is a joint U.S. Navy and U.S. Army program to integrate common missile warning on tactical aircraft and rotorcraft for IR guided missile threat warning. Effective November 28, 2000, the Air Force officially withdrew from the production program. The ATIRCM/CMWS is the core systems of the U. S. Army's modular Suite of Integrated Infrared Countermeasures (SIIRCM). The current configuration for the Army's fleet helicopters consist of the AN/ALQ-144A for the AH-64 and the UH/MH-60, the AN/ALQ-156 missile detector and M-130 flare/chaff dispenser for the CH/MH-47 and the AN/AAR-47 for the MH-47E and the MH-60. The ATIRCM/CMWS will selectively replace the AN/ALQ-144A, AN/ALQ-156 or AN/AAR-47, and the M-130. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).</p> <p><b><u>FY 2000 Accomplishments</u></b></p> <ul style="list-style-type: none"> <li>• 22211 Continue EMD contract for ATIRCM/CMWS</li> <li>• 7504 EMD contract T&amp;M efforts for ATIRCM/CMWS</li> <li>• 8201 Continue Development Testing for ATIRCM/CMWS</li> <li>• 1427 Complete EMD for Advanced Infrared Countermeasures Munitions (AIRCMM)</li> <li>• 400 Complete EMD for Advanced Visual Electro-optical Signature Suppression &amp; Analysis (AVESSA)</li> <li>• 1750 Continue Modeling &amp; Simulation efforts for ATIRCM/CMWS</li> <li>• 2619 Continue Support costs for ATIRCM/CMWS</li> <li>• 2042 Program management administration</li> <li>• 1296 Continue in-house support</li> </ul> <p>Total 47450</p>										

**ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)****June 2001**

BUDGET ACTIVITY

**5 - ENG MANUFACTURING DEV**

PE NUMBER AND TITLE

**0604270A - EW Development**

PROJECT

**L20****FY 2001 Planned Program**

- 1363 Complete EMD contract for ATIRCM/CMWS
- 9919 Continue EMD contract T&M efforts for Modeling & Simulation Testing, and Producibility in support of the ATIRCM/CMWS.
- 5100 Continue Modeling & Simulation efforts for ATIRCM/CMWS
- 1400 Initiate AIRCMM P3I
- 12680 Continue developmental testing for the ATIRCM/CMWS
- 7322 Continue Support costs for ATIRCM/CMWS
- 1993 Continue in-house and program management administration
- 1183 Small Business Innovative Research / Small Business Technology Transfer Program

Total 40960

**FY 2002 Planned Program**

- 19585 Continue EMD contract T&M efforts for Testing and Producibility in support of the ATIRCM/CMWS.
- 2000 Continue Modeling & Simulation efforts for ATIRCM/CMWS
- 1200 Continue AIRCMM P3I
- 10820 Continue testing for the ATIRCM/CMWS
- 8513 Continue support costs for ATIRCM/CMWS
- 1683 Continue in-house and program management administration

Total 43801

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)

June 2001

BUDGET ACTIVITY

**5 - ENG MANUFACTURING DEV**

PE NUMBER AND TITLE

**0604270A - EW Development**

PROJECT

**L20**

<b><u>B. Other Program Funding Summary</u></b>	<b>FY 2000</b>	<b>FY 2001</b>	<b>FY 2002</b>	<b>FY 2003</b>	<b>FY 2004</b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>	<b>To Compl</b>	<b>Total Cost</b>
APA, BA 4 AZ3507 ASE Infrared CM	0	0	36653	0	0	0	0	0	0	0
APA, BA 2 AA0722 ATIRCM Modifications	4901	0	0	0	0	0	0	0	0	0
APA, BA 4 AA0980 INITIAL SPARES	0	0	0	0	0	0	0	0	0	0

**C. Acquisition Strategy:** EMD contract competitively awarded in FY 1995 with a LRIP decision and LRIP Lot I production contract award scheduled for Jan 02. Follow on Milestone III Lot II production contract award scheduled for Mar 03.

<b><u>D. Schedule Profile</u></b>	<b>FY 2000</b>	<b>FY 2001</b>	<b>FY 2002</b>	<b>FY 2003</b>	<b>FY 2004</b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>
Continue/complete ATIRCM/CMWS EMD basic contract	1-4Q	1-4Q	1Q	0	0	0	0	0
Continue/complete EMD contract T&M efforts for ATIRCM/CMWS	1-4Q	1-4Q	1-4Q	0	0	0	0	0
Continue/complete ATIRCM/CMWS modeling & simulation	1-4Q	1-4Q	1-4Q	0	0	0	0	0
Complete AVESSA EMD phase	1-4Q	1-4Q		0	0	0	0	0
Complete AIRCMM EMD phase	1-4Q			0	0	0	0	0
Initiate/continue ATIRCM and AIRCMM P3I effort		1-4Q	1-4Q	0	0	0	0	0
Continue Project Management Administration	1-4Q	1-4Q	1-4Q	0	0	0	0	0
Start/complete ATIRCM/CMWS developmental testing		1-4Q	1-2Q	0	0	0	0	0
Start/complete ATIRCM/CMWS operational testing			2-3Q	0	0	0	0	0
ATIRCM/CMWS LRIP decision			2Q	0	0	0	0	0
ATIRCM/CMWS Lot I production contract award			2Q	0	0	0	0	0
ATIRCM/CMWS Milestone III Decision				0	0	0	0	0
ATIRCM/CMWS Lot II production contract award				0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY <b>5 - ENG MANUFACTURING DEV</b>					PE NUMBER AND TITLE <b>0604270A - EW Development</b>					PROJECT <b>L20</b>		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Thiokol (AIRCMM)	C/CPIF	Picatinny Arsenal, NJ	763	1043	2Q	1200	3Q	0	0	0	0	0
b . BAE Systems (Sanders) (ATIRCM) EMD basic contract	C/CPAF	CECOM, NJ	22211	1363	2Q	0		0	0	0	0	0
c . BAE Systems (Sanders) (ATIRCM) T&M efforts	C/CPFF	CECOM, NJ	7504	12579	1-4Q	19585	1-4Q	0	0	0	0	0
d . Cowley (ATIRCM)	C/CPFF	CECOM, NJ	0	100	2Q	0		0	0	0	0	0
Subtotal:			30478	15085		20785		0		0	0	0
Remarks: FY99 funding and prior funding in Project 665												
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Contractor Support	C/FFP	AMCOM, AL	4142	6448	1-4Q	6875	1-4Q	0	0	0	0	0
b . Matrix Support	MIPR	CECOM, NJ; AMCOM, AL	1296	1366	1-3Q	1500	1-3Q	0	0	0	0	0
Subtotal:			5438	7814		8375		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604270A - EW Development					PROJECT L20		
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . EPG support	MIPR	Ft. Huachuca, AZ	1478	4447	1Q	5541	1Q	0	0	0	0	0
b . ATEC support	MIPR	Various	4109	2323	1-2Q	3404	1Q	0	0	0	0	0
c . ATTC test support	MIPR	Fort Rucker, AL	1659	845	1Q	0		0	0	0	0	0
d . Neer/Thomsen, Inc test support	C/FFP	AMCOM, AL	396	0		0		0	0	0	0	0
e . Westar test support	C/FFP	AMCOM, AL	559	0		0		0	0	0	0	0
f . PM ITTS	MIPR	Huntsville, AL	0	2600	3Q	0		0	0	0	0	0
g . RTTC	MIPR	Huntsville, AL	0	1000	3Q	0		0	0	0	0	0
h . Other	MIPR		0	584	2-3Q	0		0	0	0	0	0
Subtotal:			8201	11799		8945		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY <b>5 - ENG MANUFACTURING DEV</b>					PE NUMBER AND TITLE <b>0604270A - EW Development</b>					PROJECT <b>L20</b>		
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Project Management		PEO Aviation, AL	2042	1993	1-4Q	1683	1-4Q	0	0	0	0	0
b . In house support	MIPR	CECOM, NJ; AMCOM, AL	1291	3086	1-3Q	4013	1-3Q	0	0	0	0	0
c . SBIR/STTR			0	1183		0		0	0	0	0	0
Subtotal:			3333	6262		5696		0		0	0	0
Project Total Cost:			47450	40960		43801		0		0	0	0