

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2004

BUDGET ACTIVITY

5 - System Development and Demonstration

PE NUMBER AND TITLE

0604817A - Combat Identification

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		4983	11817	6994	2991	4955	6932	5941	Continuing	Continuing
482	GROUND COMBAT IDENTIFICATION	0	3504	6994	2991	4955	6932	5941	Continuing	Continuing
902	INDIVIDUAL COMBAT IDENTIFICATION SYSTEM (ICIDS)	4983	8313	0	0	0	0	0	0	19055

A. Mission Description and Budget Item Justification: Survivability is one of the seven tenets of the Army Transformation Strategy and combat identification technologies represent an integral part of that strategy as they work to reduce incidents of fratricide. A key survivability enabler is the rapid, reliable identification of friends, foes, and neutrals. Project 482 supports the transition of ground-to-ground and air-to-ground combat identification technology to the Future Force with potential application as an embedded solution. Project 482 also supports the Combat Identification International Program to develop the North Atlantic Treaty Organization (NATO) interoperable combat identification technology as directed by the Senior National Representatives (Army). Project 902 addresses the individual soldier-to-soldier combat identification mission. Both project lines provide a critical link to ensuring compatibility and interoperability to the Future Combat System.

These systems support the Current/Future Force transition path of the Transformation Campaign Plan (TCP).

FY05 funds will identify technical solutions for reducing the unit procurement costs of Battlefield Target Identification Devices (BTID) for vehicle-to-vehicle fratricide reduction. These funds will also be used for the development of the concept of operations and tactics, techniques and procedures (TTP) for Radio Frequency Tags (RF Tags) to achieve reductions in air-to-ground fratricide.

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	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2004)	4985	3541	0
Current Budget (FY 2005 PB)	4983	11817	6994
Total Adjustments	-2	8276	6994
Congressional program reductions		-112	
Congressional rescissions			
Congressional increases		8400	
Reprogrammings	-2	-12	
SBIR/STTR Transfer			
Adjustments to Budget Years			6994

FY2005: The \$6.994M adjustment is for Army and Joint Forces Command (JFCOM) enhancements. It is a combination of \$\$3.994M that will provide for a Battlefield Target Identification cost reduction study and \$3.000M that will fund flight tests and the development of the concept of operations and Tactical Targeting Programs for RF Tags.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							February 2004																																						
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604817A - Combat Identification				PROJECT 482																																					
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																																				
482 GROUND COMBAT IDENTIFICATION	0	3504	6994	2991	4955	6932	5941	Continuing	Continuing																																				
<p><u>A. Mission Description and Budget Item Justification:</u> Ground Combat Identification (CID) is intended to minimize fratricide while maximizing combat effectiveness given rapidly changing and intense tactical situations.</p> <p>These funds support the transition of Air-to-Ground Combat Identification technology to the Future Force (FF). As the CCID Transition Manager and Co-Chairman of the FIST Working Group, PM TIMS will cost-share the building of prototype Air-to-Ground Combat Identification systems to be evaluated in an operational demonstration and continue to use these prototypes to design vehicle integration solutions.</p> <p>FY05 funding will identify technical solutions for reducing the unit procurement costs of the Battlefield Combat Identification Devices (BTID) for vehicle-to-vehicle fratricide reduction. These funds will also develop the concept of operations and tactics, techniques, and procedures (TTP) for Radio Frequency Tags (RF Tags) to achieve reductions in air-to-ground fratricide.</p> <p>This system supports the Current/Future Force transition path of the Transformation Campaign Plan (TCP).</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 75%; padding: 5px;">Accomplishments/Planned Program</th> <th style="width: 10%; padding: 5px;">FY 2003</th> <th style="width: 10%; padding: 5px;">FY 2004</th> <th style="width: 5%; padding: 5px;">FY 2005</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Design and Develop Potential Air-to-Ground CID Solution</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">2898</td> <td style="text-align: center; padding: 5px;">0</td> </tr> <tr> <td style="padding: 5px;">Identify technical solutions for reducing the unit procurement costs of BTID for vehicle-to-vehicle fratricide reduction.</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">3994</td> </tr> <tr> <td style="padding: 5px;">Development of the concept of operation and TTPs for RF Tags to achieve reductions in air-to-ground fratricide.</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">2500</td> </tr> <tr> <td style="padding: 5px;">Conduct fixed and rotary-wing flight tests.</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">500</td> </tr> <tr> <td style="padding: 5px;">Develop the NATO interoperable CID technology for the International CID program</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">439</td> <td style="text-align: center; padding: 5px;">0</td> </tr> <tr> <td style="padding: 5px;">Undistributed Congressional Adjustments</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">65</td> <td style="text-align: center; padding: 5px;">0</td> </tr> <tr> <td style="padding: 5px;">Small Business Innovative Research/Small Business Technology Transfer Program</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">102</td> <td style="text-align: center; padding: 5px;">0</td> </tr> <tr> <td style="padding: 5px;">Totals</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">3504</td> <td style="text-align: center; padding: 5px;">6994</td> </tr> </tbody> </table>										Accomplishments/Planned Program	FY 2003	FY 2004	FY 2005	Design and Develop Potential Air-to-Ground CID Solution	0	2898	0	Identify technical solutions for reducing the unit procurement costs of BTID for vehicle-to-vehicle fratricide reduction.	0	0	3994	Development of the concept of operation and TTPs for RF Tags to achieve reductions in air-to-ground fratricide.	0	0	2500	Conduct fixed and rotary-wing flight tests.	0	0	500	Develop the NATO interoperable CID technology for the International CID program	0	439	0	Undistributed Congressional Adjustments	0	65	0	Small Business Innovative Research/Small Business Technology Transfer Program	0	102	0	Totals	0	3504	6994
Accomplishments/Planned Program	FY 2003	FY 2004	FY 2005																																										
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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)	February 2004
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BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE 0604817A - Combat Identification	PROJECT 482
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<u>B. Other Program Funding Summary</u>	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost	
OPA2, SSN BA0510, Combat Identification Program	973	0	0	0	0	0	6000	0	12529	
RDT&E, PE 654645 Project 470, Future Combat Systems Program - SDD	157649	1245118	2734900	3547091	2631654	1266385	326817	35000000	46909614	
WTCV, SSN G86100, Future Combat Systems	0	0	0	0	753000	3185000	3145000	13568000	20651000	

C. Acquisition Strategy: FY04 dollars will fund the FCS Integrated Support Team (FIST) efforts for the FCS Combat ID (CID) Architecture. Sandia National Labs, Intelligence and Information Wargare Director (I2WD) and Program Manager, Tactical Information Systems (PM TIMS) will be executing these efforts.

ARMY RDT&E COST ANALYSIS(R3)									February 2004			
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT		
5 - System Development and Demonstration					0604817A - Combat Identification					482		
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	Cost To Complete	Total Cost	Target Value of Contract
a . B-Kit Development	C/CPAF	TRW, CA	69765	0		0		0		0	69765	69765
b . A-Kit Development (Abrams)	CPFF	GDLS, MI	10909	0		0		0		0	10909	10909
c . A- Kit Development (Bradley)	CPFF	UDLP, CA	3364	0		0		0		0	3364	3364
d . A-Kit Development (Various)	Misc.	E&S, TRW, UDLP, AM General, Raytheon.	5836	0		0		0		0	5836	0
e . Air-to-Ground Solution Efforts	MIPR	Sandia National Labs/DOE	0	0		2628	2-3Q	0		0	2628	0
f . Combat Identification International Efforts	TBD	TBD	0	0		445	2-3Q	0		0	445	0
g . BTID Cost Reduction Studies	TBD	TBD	0	0		0		3674	1Q	3022	6696	0
h . RF Tags Program Efforts	TBD	TBD	0	0		0		3000	1Q	0	3000	0
i . SDD for Non-FCS UofA Vehicular CI Solution	TBD	TBD	0	0		0		0		16199	16199	0
j . SBIT/STTR	Various		0	0		102	2Q	0		0	102	0

ARMY RDT&E COST ANALYSIS(R3)									February 2004			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604817A - Combat Identification					PROJECT 482		
I. Product Development (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	Cost To Complete	Total Cost	Target Value of Contract
			89874	0		3175		6674		19221	118944	84038
Subtotal:												
II. Support Cost	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	Cost To Complete	Total Cost	Target Value of Contract
a . Matrix Support	MIPR	CECOM, Fort Monmouth NJ	8240	0		50	2Q	100	1Q	0	8390	0
b . System Eng/Tech Assistance	T&M/MIPR	COLSA, Falls Church, VA; Sytex, Eatontown, NJ	7057	0		95	2Q	100	1Q	0	7252	0
c . Test Planning	MIPR	CECOM, Fort Monmouth NJ	437	0		0		0		0	437	0
d . Technical Support	MIPR	Sandia National Laboratories/IDA	570	0		0		0		0	570	0
e . SDD Matrix Support	MIPR	TBD	0	0		0		0		250	250	0
f . SDD Technical Support	MIPR	TBD	0	0		0		0		250	250	0
Subtotal:			16304	0		145		200		500	17149	0

ARMY RDT&E COST ANALYSIS(R3)									February 2004			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604817A - Combat Identification					PROJECT 482		
III. 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	Cost To Complete	Total Cost	Target Value of Contract
a . Technical Test, Log Demo, SCD, IOTE	MIPR	ATEC, YPG, AZ	3513	0		0		0		0	3513	0
b . Limited User Test	MIPR	ATEC, YPG, AZ	673	0		0		0		0	673	0
c . ASCIET	MIPR	Misc.	6651	0		0		0		0	6651	0
d . SDD DT/OT	MIPR	TBD	0	0		0		0		1000	1000	0
Subtotal:			10837	0		0		0		1000	11837	0
IV. 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	Cost To Complete	Total Cost	Target Value of Contract
a . Program Management	In-house support	PM NavSys/TIMS, Ft. Monmouth, NJ	5454	0		119	1-4Q	120	1-4Q	0	5693	0
b . SDD Program Management	In-house Support	PM NavSys/TIMS, Ft. Monmouth, NJ	0	0		0		0		500	500	0
c . Undistributed Congressional Adjustments	Adjustments	PM NavSys/TIMS, Ft. Monmouth, NJ	0	0		65	2Q	0		0	65	0

ARMY RDT&E COST ANALYSIS(R3)									February 2004				
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT			
5 - System Development and Demonstration					0604817A - Combat Identification					482			
IV. Management Services (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	Cost To Complete	Total Cost	Target Value of Contract	
			5454	0		184		120		500	6258	0	
Subtotal:													
Project Total Cost:						3504		6994		21221	154188	84038	

Schedule Profile (R4 Exhibit)																							February 2004									
BUDGET ACTIVITY 5 - System Development and Demonstration												PE NUMBER AND TITLE 0604817A - Combat Identification																PROJECT 482				
Event Name	FY 02				FY 03				FY 04				FY 05				FY 06				FY 07				FY 08				FY 09			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Concept & Technology Development					FIST Study																											
BTID Cost Reduction Studies													BTID Cost Reduction																			
RF Tags Program Efforts													RF Tags																			
System Development and Demonstration (SDD)																	SDD															
Developmental Test & Evaluation (DT&E)																									DT&E							
Initial Operational Test & Evaluation (IOT&E)																									IOT&E							
(1) Milestone C: Production Decision																									MS C							
A-Kit Integration																									A-Kit Intgr							
Low Rate Initial Production (LRIP)																									LRIP							
FIST: Future Combat Systems Integrated Support Team BTID: Battlefield Target Identification Device RF: Radio Frequency																																

Schedule Detail (R4a Exhibit)						February 2004	
BUDGET ACTIVITY 5 - System Development and Demonstration			PE NUMBER AND TITLE 0604817A - Combat Identification			PROJECT 482	
<u>Schedule Detail</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Milestone (MS) B for FCS	3Q						
Design and Develop Air-to-Ground CID Solution		1-4Q					
Transition Air-to-Ground solution to FCS/FF programs		4Q					
Execute Combat Identification International program efforts		1-4Q					
Conduct BTID Cost Reduction Studies			1-4Q	1-4Q			
RF Tags Program Efforts			1-4Q				
SDD for the Non-FCS Unit of Action Vehicular Combat Identification Solution				1-4Q	1-4Q		
MS C for the Non-FCS Unit of Action Vehicular Combat Identification Solution						4Q	
Integration Efforts for the Non-FCS Unit of Action Vehicular Combat Identification Solution							1-4Q
LRIP for the Non-FCS Unit of Action Vehicular Combat Identification Solution							1-4Q

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							February 2004					
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604817A - Combat Identification			PROJECT 902					
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
902 INDIVIDUAL COMBAT IDENTIFICATION SYSTEM (ICIDS)				4983	8313	0	0	0	0	0	0	19055
<p>A. Mission Description and Budget Item Justification: The identification of friendly forces on future battlefields will be more complex due to the highly mobile, dispersed, non-linear formations found in unconventional warfare. The Individual Combat Identification System (ICIDS) program was terminated by the Army in Fiscal Year 2002, precipitated by the need to fund other high-priority programs supporting Army Transformation. The Army recognizes the need to protect soldiers on the battlefield and has already transferred the funding and technology from the ICIDS program to the Land Warrior program in order to integrate this capability into the Land Warrior System. The ICIDS Milestone Decision Authority and Program Executive Office Soldier approved a transition plan detailing the transfer of technology and PM Land Warrior is using these funds to integrate this capability and the technologies into the Land Warrior System. The existing program was restructured to produce ICIDS/Land Warrior compatible equipment, with technology to support the Objective Force. The system will fulfill requirements in the Operational Requirements Document (ORD) for use by Army, Marine and Special Operations Forces. Combat Identification (CID) is a combination of Target Identification (TI), Situation Awareness (SA) and Tactics, Techniques and Procedures. The Integrated Battlespace Combat Situation Awareness System (IBCSAS) is focused on the SA piece of Combat Identification and is an alternative technology approach to providing soldier to soldier combat identification functionality into the Land Warrior System. This is in line with the goal of Network Centric Warfare for the Future Force. By enhancing situation awareness at the soldier level and providing the capability to report position, location and tracking (PLT) information in a Network Centric environment, identification of friendly forces will be enhanced. The Land Warrior System provides PLT and SA via the Navigation Subsystem and Global Positioning System (GPS), and the Communication Subsystem. IB-CSAS technologies under investigation will provide PLT in GPS denied areas such as urban terrain and offer beyond line of site tracking and targeting capabilities.</p>												
Accomplishments/Planned Program									FY 2003	FY 2004	FY 2005	
Develop Ultra Wide Band and Geometric Pairing algorithms and software hosted on man-portable platforms for demonstration in a Military Operations on Urbanized Terrain (MOUT) environment.									4983	0	0	
Enhance performance, accuracy and range of Ultra Wide Band and Geometric Pairing and bring GP beyond 2 dimensions. Demonstrate enhanced UWB and GP as well as RF-Tag technologies on man-portable platforms in a MOUT environment.									0	8071	0	
Small Business Innovative Research/Small Business Technology Transfer Program									0	242	0	
Totals									4983	8313	0	

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0604817A - Combat Identification

PROJECT

902

B. Other Program Funding Summary

	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
OPA2, SSN BA0515 Combat ID/Aiming Light	6811	0	0	0	0	0	0	0	16775
RDTE, 604713A, D667 Land Warrior	53949	81029	91279	104793	115729	128791	86853	Continuing	Continuing
RDTE, 0603001, DJ50, Future Warrior Technology Integration	37499	44476	56676	62579	47880	74806	75220	Continuing	Continuing
OPA3, M80500, Land Warrior	0	1538	8896	89700	193458	157673	149960	Continuing	Continuing
OPA4, MS3610, Land Warrior Initial Spares	0	667	711	851	967	490	128	Continuing	Continuing

C. Acquisition Strategy: The Individual Combat Identification System (ICIDS) program was terminated by the Army in FY 02, precipitated by the need to fund other high priority programs supporting Army Transformation. The Integrated Battlespace Combat Situation Awareness System (IBCSAS) is an alternative technology approach to providing soldier-to-soldier-combat identification functionality into the Land Warrior System.

ARMY RDT&E COST ANALYSIS(R3)									February 2004			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604817A - Combat Identification					PROJECT 902		
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	Cost To Complete	Total Cost	Target Value of Contract
a . Integrated Battlefield Combat Situational Awareness	C/CPIF	General Dynamics, Scottsdale, AZ	0	3459	4Q	6742	1Q	0		0	10201	10192
b . ICIDS (previous years)			2892	0		0		0		0	2892	0
c . SBIR/STTR	Various		0	0		242	1Q	0		0	242	0
Subtotal:			2892	3459		6984		0		0	13335	10192
Remarks: Boeing is a sub-contractor effort to General Dynamics.												
II. Support Cost	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	Cost To Complete	Total Cost	Target Value of Contract
a . Sys Eng/Tech Assist	MIPR	Various	0	1435	4Q	825	1-2Q	0		0	2260	925
Subtotal:			0	1435		825		0		0	2260	925

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III. 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	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 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
a . Program Management	MIPR/In-house	Fort Monmouth, NJ	0	89	4Q	504	1-2Q	0		0	593	610	
Subtotal:			0	89		504		0		0	593	610	
Project Total Cost:			2892	4983		8313		0		0	16188	11727	

Schedule Detail (R4a Exhibit)						February 2004	
BUDGET ACTIVITY 5 - System Development and Demonstration			PE NUMBER AND TITLE 0604817A - Combat Identification			PROJECT 902	
<u>Schedule Detail</u>	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
IBCSAS Contract Award	4Q						
MOUT Site Survey/Selection of man-portable hardware	4Q						
Phase I Demonstration		3Q					
Phase II Demonstration		4Q					