

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604817A: Combat Identification							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	8.967	10.018	29.884	0.000	29.884	15.041	0.000	12.500	12.500	Continuing	Continuing
482: Ground Combat Identification	8.967	10.018	29.884	0.000	29.884	15.041	0.000	12.500	12.500	Continuing	Continuing
A. Mission Description and Budget Item Justification Combat Identification (CID) is a family of systems to maximize overall combat effectiveness by minimizing and mitigating incidents of fratricide and maximizing the situational understanding of the trigger puller across a broad spectrum of Joint and Coalition combat operations. This is accomplished by the identification of friends, enemies/foes, and neutrals in the Joint and Coalition battle space. Based on program prioritization from the Deputy Secretary of Defense and the Deputy's Advisory Working Group (DAWG), the Joint Cooperative Target Identification-Ground (JCTI-G) efforts have been refocused to address fratricide incidents involving Fires-on-Dismounts (FoD) and Air to Ground (A-G) fires. This is a Joint effort with the United States Marine Corps that will be equitably allocated in support of Fires-onDismount development. This program has been designated Special Interest by the Defense Acquisition Executive.FY11 supports JCTI-G program efforts for FoD and A-G. These efforts assume a Materiel Development Decision (MDD) and initiation of an Analysis of Alternatives (AoA) in 2QFY10 that results in a Materiel Solution decision by the end of 4QFY10. The results of the AoA will be used to adjust the program schedule as required and inform the Army funding resource requirements for FY13. Milestone (MS) A decisions for entry into Technology Development acquisition phase for both FoD and A-G efforts are assumed to occur in 4QFY11. Efforts will focus the execution of the MS decision process to include program and acquisition document preparation. Also, efforts will include technical and acquisition planning for contract solicitation such as requirements analyses and the generation of an Acquisition Requirements Package. In addition, funding in FY11 will continue with the technical maturation efforts associated with the FoD requirement.											

UNCLASSIFIED

R-1 Line Item #111

Page 1 of 17

1601 of 1922

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army				DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604817A: Combat Identification			
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	10.873	20.070	34.520	0.000	34.520
Current President's Budget	8.967	10.018	29.884	0.000	29.884
Total Adjustments	-1.906	-10.052	-4.636	0.000	-4.636
• Congressional General Reductions		-10.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	-1.906	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Adjustments to Budget Years	0.000	-0.052	-4.636	0.000	-4.636
Change Summary Explanation					
Program Summary Explanation: FY09, FY10 and FY11 funding realigned to higher priority requirements.					

UNCLASSIFIED

R-1 Line Item #111

Page 2 of 17

1602 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army								DATE: February 2010																																	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604817A: <i>Combat Identification</i>				PROJECT 482: <i>Ground Combat Identification</i>																																	
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost																														
482: <i>Ground Combat Identification</i>	8.967	10.018	29.884	0.000	29.884	15.041	0.000	12.500	12.500	Continuing	Continuing																														
Quantity of RDT&E Articles																																									
A. Mission Description and Budget Item Justification <p>A. Mission Description and Budget Item Justification: Combat Identification (CID) is a family of systems to maximize overall the combat effectiveness of forces by minimizing and mitigating incidents of fratricide and maximizing the situational understanding of the trigger puller across the broad spectrum of Joint and Coalition combat operations. This is accomplished by the identification of friends, enemies/foes and neutrals in the Joint and Coalition battle space. Based on program prioritization direction from the Deputy Secretary of Defense and the Deputy's Advisory Working Group (DAWG), the Joint Cooperative Target Identification - Ground (JCTI-G) efforts have been refocused to address fratricide incidents involving Fires-on-Dismounts (FoD) and Air to Ground (A-G) fires. This is a Joint effort with the United States Marine Corps that will be equitably allocated in support of Fires-on-Dismounts development. This program has been designated Special Interest by the Defense Acquisition Executive. FY11 supports JCTI-G program efforts for FoD and A-G. These efforts assume a Materiel Development Decision (MDD) and initiation of an Analysis of Alternatives (AoA) in 2QFY10 that results in a Materiel Solution by the end of 4QFY10. The results of the AoA will be used to adjust the program schedule as required and inform Army funding resource requirements for FY13. Milestone (MS) A decisions for entry into Technology Development acquisition phase for both FoD and A-G efforts are assumed to occur in 4QFY11. Efforts will focus the execution of the MS decision process to include program and acquisition document preparation. Also, efforts will include technical and acquisition planning for contract solicitation such as requirements analyses and the generation of an Acquisition Requirements Package. In addition, funding in FY11 will continue with the technical maturation efforts associated with the FoD requirement.</p>																																									
B. Accomplishments/Planned Program (\$ in Millions) <table border="1"> <tr> <td></td> <td>FY 2009</td> <td>FY 2010</td> <td>FY 2011 Base</td> <td>FY 2011 OCO</td> <td>FY 2011 Total</td> </tr> <tr> <td>Program #1</td> <td align="center">1.000</td> <td align="center">0.000</td> <td align="center">0.000</td> <td align="center">0.000</td> <td align="center">0.000</td> </tr> <tr> <td> Preparation for JCTI-G, Milestone (MS)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> <i>FY 2009 Accomplishments:</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> FY 2009</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>													FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	Program #1	1.000	0.000	0.000	0.000	0.000	Preparation for JCTI-G, Milestone (MS)						<i>FY 2009 Accomplishments:</i>						FY 2009					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total																																				
Program #1	1.000	0.000	0.000	0.000	0.000																																				
Preparation for JCTI-G, Milestone (MS)																																									
<i>FY 2009 Accomplishments:</i>																																									
FY 2009																																									

UNCLASSIFIED

R-1 Line Item #111

Page 3 of 17

1603 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army			DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604817A: Combat Identification	PROJECT 482: Ground Combat Identification			
B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO					
Program #2 Pre JCTI-G, Technology Development (TD) Activity FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO	1.000	0.000	0.000	0.000	0.000
Program #3 JCTI-G, Risk Reduction Effort	4.589	0.000	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #111

Page 4 of 17

1604 of 1922

UNCLASSIFIED

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604817A: Combat Identification	PROJECT 482: Ground Combat Identification			
B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Program #4 Execute JCTI-G, TD	1.073	0.000	0.000	0.000	0.000
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Program #5	1.305	0.000	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #111

Page 5 of 17

1605 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army			DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604817A: Combat Identification	PROJECT 482: Ground Combat Identification				
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Air-to-Ground Risk Reduction Efforts						
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #6		0.000	2.738	0.000	0.000	0.000
Alternatives of Analysis (AOA) Conduct						
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						

UNCLASSIFIED

R-1 Line Item #111

Page 6 of 17

1606 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604817A: Combat Identification		PROJECT 482: Ground Combat Identification		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #7		0.000	2.000	0.000	0.000	0.000
Preparation for JCTI-G, Milestone (MS) A						
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #8		0.000	0.000	10.000	0.000	10.000
Preparation for JCTI-G, Milestone (MS) A						
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						

UNCLASSIFIED

R-1 Line Item #111

Page 7 of 17

1607 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604817A: Combat Identification		PROJECT 482: Ground Combat Identification		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #9		0.000	5.000	0.000	0.000	0.000
Fires on Dismounts Maturation						
FY 2009 Accomplishments:						
FY 2009						
FY 2010 Plans:						
FY 2010						
FY 2011 Base Plans:						
FY 2011 Base						
FY 2011 OCO Plans:						
FY 2011 OCO						
Program #10		0.000	0.000	14.500	0.000	14.500
Fires on Dismounts Maturation						
FY 2009 Accomplishments:						
FY 2009						
FY 2010 Plans:						
FY 2010						
FY 2011 Base Plans:						
FY 2011 Base						
FY 2011 OCO Plans:						
FY 2011 OCO						

UNCLASSIFIED

R-1 Line Item #111

Page 8 of 17

1608 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604817A: Combat Identification		PROJECT 482: Ground Combat Identification		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #11		0.000	0.000	5.384	0.000	5.384
Soldier Non Cooperative Target Identification						
FY 2009 Accomplishments:						
FY 2009						
FY 2010 Plans:						
FY 2010						
FY 2011 Base Plans:						
FY 2011 Base						
FY 2011 OCO Plans:						
FY 2011 OCO						
Program #12		0.000	0.280	0.000	0.000	0.000
SBIR/STTR						
FY 2009 Accomplishments:						
FY 2009						
FY 2010 Plans:						
FY 2010						
FY 2011 Base Plans:						
FY 2011 Base						
FY 2011 OCO Plans:						
FY 2011 OCO						

UNCLASSIFIED

R-1 Line Item #111

Page 9 of 17

1609 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army							DATE: February 2010				
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>			R-1 ITEM NOMENCLATURE PE 0604817A: <i>Combat Identification</i>			PROJECT 482: <i>Ground Combat Identification</i>					
<u>B. Accomplishments/Planned Program (\$ in Millions)</u>											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
Accomplishments/Planned Programs Subtotals						8.967	10.018	29.884	0.000	29.884	
<u>C. Other Program Funding Summary (\$ in Millions)</u>											
<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• Ord. #1: <i>OPA2, SSN BA0510 Combat Identification Program</i>	0.000	0.000	0.000	0.000	0.000	85.014	93.158	0.000	0.000	Continuing	Continuing
• Ord. #2: <i>RDTE, USMC MCPC 11309</i>	0.000	0.000	20.374	0.000	20.374	21.531	15.033	14.968	14.999	Continuing	Continuing
<u>D. Acquisition Strategy</u>											
Acquisition Strategy: Modified in accordance with the 2 Dec 2008 revision of the DoD Acquisition System (DoD Instruction 5000.2) and the direction received from the Deputy Secretary of Defense and the Deputy's Advisory Working Group (DAWG) meeting on 22 Sep 2009. The Joint Cooperative Target Identification - Ground (JCTI-G) has been refocused to prioritize efforts to address fratricide incidents involving Fires-on-Dismounts (FoD) as program Increment 1 and Air to Ground (A-G) fires as Increment 2. The JCTI-G program is a Joint Army-USMC effort with current plans for a Materiel Development Decision (MDD) in 2QFY10 followed the Materiel Solution Phase that will provide an evaluation and assessment of the Analysis of Alternatives (AoA). The AoA assessment will result in a MS A decision in FY11, the generation of an Acquisition Requirements Package (ARP), and solicitation for competitively awarded Technology Development (TD) contracts in FY12. Two (or more) TD cost-plus type contracts will be awarded to competing teams to develop system (or key system elements) prototypes consistent with the Joint Capabilities Development Document requirements for FoD and A-G increments. The TD phase will proceed to a system (or key system element) Preliminary Design Review (PDR). A successful PDR along with an approved CDD will be among the criteria supporting a MS B and entry into Engineering & Manufacturing Development (EMD) phase. The result of EMD will be a baseline system configuration for production. This strategy will require the support of other Government agencies.											
<u>E. Performance Metrics</u>											
Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.											

UNCLASSIFIED

R-1 Line Item #111

Page 10 of 17

1610 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army											DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604817A: Combat Identification				PROJECT 482: Ground Combat Identification					
Product Development (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
B-Kit Development	C/CPAF	TRW CA	69.765	0.000		0.000		0.000		0.000	0	69.765	69.765	
A-Kit Development (Abrams)	C/CPFF	GDLS MI	10.909	0.000		0.000		0.000		0.000	0	10.909	10.909	
A- Kit Development (Bradley)	C/CPFF	UDLP CA	3.364	0.000		0.000		0.000		0.000	0	3.364	3.364	
A-Kit Development (Various)	C	E&S TRW, UDLP, AM General, Raytheon.	5.836	0.000		0.000		0.000		0.000	0	5.836	5.836	
Air-to-Ground Efforts	C	I2WD Ft. Monmouth NJ	2.206	0.000		0.000		0.000		0.000	0	2.206	0	
Air-to-Ground Solution Efforts	C	Sandia National Labs/DOE Albuquerque NM	0.550	0.000		0.000		0.000		0.000	0	.550	0	
Combat Identification International Efforts	C/CPFF	Raytheon Ft. Wayne IN	0.415	0.000		0.000		0.000		0.000	0	.415	0	
BTID Cost Reduction Efforts	C/FFP	Raytheon Ft. Wayne IN	6.745	0.000		0.000		0.000		0.000	0	6.745	0	
RF Tags Program Efforts	C	I2WD Ft. Monmouth NJ	2.023	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
RF Tag Prototypes	C/CPFF	BAE Nashua	0.800	0.000		0.000		0.000		0.000	Continuing	Continuing	0	

UNCLASSIFIED

R-1 Line Item #111

Page 11 of 17

1611 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army											DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604817A: Combat Identification				PROJECT 482: Ground Combat Identification					
Product Development (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
		NH												
JCTI-G, MS B Documentation	C	CE LCMC/Support Contractors Location could not be determined.	0.000	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
JCTI-G, Risk Reduction	C/CPFF	Raytheon Ft. Wayne, IN	0.000	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
JCTI-G, Risk Reduction	C/CPFF	SRC Syracuse, NY	0.000	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
JCTI-G, Risk Reduction - 2	C/CPFF	BAE Greenlawn, NJ	0.000	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
AOA Conduct	C	TRADOC Location could not be determined.	0.000	2.790		0.000		0.000		0.000	Continuing	Continuing	0	
Soldier Non Cooperative Target Identification	C	Nothing entered for Activity and Location. Location could not be determined.	0.000	0.000		5.384		0.000		5.384	Continuing	Continuing	0	
Fires on Dismounts Technical Maturation	C	CERDEC Ft. Monmouth, NJ	0.000	5.000		14.500		0.000		14.500	Continuing	Continuing	0	
Air-to-Ground MS B Preparation	C	CE LCMC NJ	0.000	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Subtotal			102.613	7.790		19.884		0.000		19.884			89.874	
Remarks														

UNCLASSIFIED

R-1 Line Item #111

Page 12 of 17

1612 of 1922

UNCLASSIFIED

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APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604817A: <i>Combat Identification</i>				PROJECT 482: <i>Ground Combat Identification</i>					
Support (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Matrix Support	C	CE LCMC I2WD, Fort Monmouth NJ	8.467	0.428		1.686		0.000		1.686	Continuing	Continuing	0
System Eng/Tech Assistance	C	Lockheed Martin R4 Eatontown,NJ; CACI, Chantilly, VA; BAH,McLean, Va	7.838	0.802		3.790		0.000		3.790	Continuing	Continuing	0
Test Planning	C	CERDEC Fort Monmouth NJ	0.437	0.000		1.250		0.000		1.250	Continuing	Continuing	0
Technical Support	C	Sandia National Laboratories/IDA Albuquerque NM	0.570	0.000		1.750		0.000		1.750	Continuing	Continuing	0
Subtotal			17.312	1.230		8.476		0.000		8.476			0.000
Remarks													

UNCLASSIFIED

R-1 Line Item #111

Page 13 of 17

1613 of 1922

UNCLASSIFIED

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604817A: Combat Identification				PROJECT 482: Ground Combat Identification			

Test and Evaluation (\$ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test, Log Demo, SCD, IOTE	C	ATEC TBD	3.513	0.000		0.000		0.000		0.000	0	3.513	0
Limited User Test	C	ATEC YPG, AZ	0.673	0.000		0.000		0.000		0.000	0	.673	0
ASCIET	C	Misc. Location could not be determined.	6.651	0.000		0.000		0.000		0.000	0	6.651	0
Subtotal			10.837	0.000		0.000		0.000		0.000	0.000	10.837	0.000

Remarks

Management Services (\$ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management	C	PM NavSys/PM TIMS Ft. Monmouth, NJ	6.335	1.050		1.524		0.000		1.524	Continuing	Continuing	0
Subtotal			6.335	1.050		1.524		0.000		1.524			0.000

Remarks

UNCLASSIFIED

R-1 Line Item #111

Page 14 of 17

1614 of 1922

UNCLASSIFIED

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APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>					R-1 ITEM NOMENCLATURE PE 0604817A: <i>Combat Identification</i>				PROJECT 482: <i>Ground Combat Identification</i>				
		Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals		137.097	10.070		29.884		0.000		29.884			89.874	
Remarks													

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604817A: <i>Combat Identification</i>	PROJECT 482: <i>Ground Combat Identification</i>	

	FY 2009				FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015			
	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
Materiel Development Decision					#																							
JCTI-G Materiel Solution Phase					#	#	#	#	#	#	#																	
JCTI-G Milestone A											#																	
JCTI-G, Request for Proposal Prep								#	#	#	#																	
JCTI-G Source Selection											#	#	#															
JCTI-G Fires on Dismount Maturation					#	#	#	#	#	#	#	#	#															
JCTI-G Technology Development														#	#	#	#	#	#	#								
JCTI-G Milestone B																				#								
JCTI-G Engineering & Manufacturing Development																					#	#	#	#	#	#		

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R-1 Line Item #111

Page 16 of 17

1616 of 1922

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604817A: <i>Combat Identification</i>	PROJECT 482: <i>Ground Combat Identification</i>	

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Materiel Development Decision	1	2010	1	2010
JCTI-G Materiel Solution Phase	1	2010	3	2011
JCTI-G Milestone A	3	2011	3	2011
JCTI-G, Request for Proposal Prep	4	2010	3	2011
JCTI-G Source Selection	3	2011	1	2012
JCTI-G Fires on Dismount Maturation	1	2010	1	2012
JCTI-G Technology Development	2	2012	1	2014
JCTI-G Milestone B	2	2014	2	2014
JCTI-G Engineering & Manufacturing Development	2	2014	3	2015

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R-1 Line Item #111

Page 17 of 17

1617 of 1922