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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 0604666A: Spin Out Technology/Capability Insertion							
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	122.788	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	122.788
FC7: FCS - Spin Out Technology/ Capability Integration	122.788	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
A. Mission Description and Budget Item Justification Through FY 2009, this program element funded all non-core Future Combat System (FCS) unique efforts required to develop and test the integration of FCS technologies and capabilities into the current force "Spin Out" Programs. This included A-Kit development, software and network hardware integration, Spin Out Network architecture and development, unique Spin Out training, logistics, testing, training support and upgrades of Training Aids, Devices, Simulators and Simulations (TADSS), etc. All FCS Core development required for B Kits was included in their appropriate program element as part of core program development. The Spin Out Program provided early capability in Force Protection, Networked Fires, Expanded Battle Space, and limited Battle Command to the current force. Beginning in FY 2010, the FCS program was cancelled and transitioned to an incremental development program. Each increment is a spin out program, thus there is no longer a unique spin out cost and this program element is no longer required. The Spin Out Program begins the process of providing interoperability of current force systems technologies (Force XXI Battle Command, Brigade and Below (FBCB2) and the Advanced Field Artillery Tactical Data System (AFATDS)) with new FCS capabilities (Unattended Ground Sensors (UGS), the Non Line of Sight Launch System (NLOS-LS), Small Unmanned Ground Vehicle Block 1 (SUGV and Class I Unmanned Aerial Vehicle Block 0 (UAV). This will be accomplished by integrating a common Network Integration Kit (NIK) consisting of the Joint Tactical Radio System (JTRS), the Integrated Computer System (ICS), and limited Battle Command System (BCS) software, to include System of System Common Operating Environment (SOSCOE), into the High Mobility Multipurpose Wheeled Vehicle (HMMWV). As a result of the elimination of FCS Brigade Combat Team (FBCT), there is no longer a need for a unique FCS Spin Out Program Element. The funding requirements are now spread amongst the appropriate FCS program elements. For example, the testing requirements for E-IBCT are now reflected in PE 0604661A FCS System of System Engineering and Program Management commencing with the FY2010 program year.											

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B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	111.032	0.000	85.792	0.000	85.792
Current President's Budget	122.788	0.000	0.000	0.000	0.000
Total Adjustments	11.756	0.000	-85.792	0.000	-85.792
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	14.641	0.000			
• SBIR/STTR Transfer	-2.885	0.000			
• Adjustments to Budget Years	0.000	0.000	-85.792	0.000	-85.792
Change Summary Explanation					
Change Summary Explanation: FY09: Congress approved reprogramming request for additional funds to the program's higher priority needsFY11: Funds realigned to the newly created BCT modernization					

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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
FC7: <i>FCS - Spin Out Technology/Capability Integration</i>	122.788	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles											
<u>A. Mission Description and Budget Item Justification</u> Not applicable for this item.											
<u>B. Accomplishments/Planned Program (\$ in Millions)</u>											
							FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1							8.494	0.000	0.000	0.000	0.000
Contractor SoS Engineering/PM FY09 Increment 1 IBCT - Completed the development of the Spin Out Early Network architecture, design, and specifications. Conducted Critical Design Review update for the Spin Out Configurations. Integrated Battle Command Software, SINCGARs, Soldier Radio Waveform and Wideband Networking Waveforms, and HMMWV A/B-Kits into a integrated Network. Coordinated Testing and analysis to verify the FCS capabilities to enhance the current IBCT. Inserted engineering changes to correct faults detected from FY 08 Preliminary-LUT. Integratee, verified and tested software changes. Supported FY09 LUT/FDTE/TFT testing.											
<i>FY 2009 Accomplishments:</i> FY 2009											
<i>FY 2010 Plans:</i> FY 2010											
<i>FY 2011 Base Plans:</i> FY 2011 Base											

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 OCO Plans: FY 2011 OCO						
Program #2 Government and Contracting Training FY09 - Spin Out training supported both the maintenance and enhancement of Current Force CCTTs, and modeling and simulations, and soldier training necessary to provide continuity of training in support of the Army's Tactical Field Test (TFT), Force Development Test and Evaluation (FDTE), and Limited Users Test (LUT) for Increment 1 IBCT. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		8.481	0.000	0.000	0.000	0.000
Program #3 Contractor Logistics - FY09- Began the supportability planning and development of training procedures for the Increment 1 IBCTs, as well as the development of supportability planning and training procedures in support of government testing in FY09 efforts. This included coordination of spare parts, FSRs and labor to keep prototypes functioning during testing. It also included the fielding planning along with support planning for the FCS technologies in the IBCT. Coordinated and analyzed the logistics demonstrations and test activities in support of the Increment 1 IBCT Early Configuration.		3.597	0.000	0.000	0.000	0.000

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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 Contractor SUGV - FY09 - In support of Increment 1 IBCT refurbished and improved the 22 prototypes, in order to conduct follow-on testing (LUT/FDTE/TFT)to include mobility, range, endurance, RAM-T, logistics, and environmental tests. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		2.704	0.000	0.000	0.000	0.000

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #5 Contractor T-UGS/U-UGS - FY09 - Refurbished the 10 T-UGS to enhance and upgrade them to the new form factor. Fabricated, assembled and delivered 6 sets of T-UGS with new form factor configuration to support the Increment 1 IBCT user test. Also, provided refurbishment and new gateway enhancements to the 16 U-UGS. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		2.421	0.000	0.000	0.000	0.000
Program #6 Contractor UAV - FY09 - Upgraded 11 Class I Block 0 Systems with electric engine controllers, and Microhard 320 Command and Control (C2) and L3 VNTX (video) analog radios. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010		9.547	0.000	0.000	0.000	0.000

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #7 Contractor B-Kits - B-Kits include: Ground Platform Communication System (GPCS), Integrated Computer System, Ground Mobile Radio (GMR)-Joint Tactical Radio System (JTRS), GPCS consists of two antenna, 4 GMR radios, 4 power amplifiers, Network INFO/SEC Unit (NIU), and Local Control Display Device (LCDD). Fabricated, assembled and delivered 14 additional B-Kits for the HMMWVs integration in support of the user testing. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		16.187	0.000	0.000	0.000	0.000
Program #8		21.661	0.000	0.000	0.000	0.000

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Contractor Software - FY09 - Continued to integrate software drops for the Increment 1 IBCT LUT configuration to support the Technical Tests (TTs). Provided the framework for NLOS-LS's communications link into the network. 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 #9 Contractor Test - FY09 - Provided personnel for IQT testing for the Increment 1 IBCT configuration on the current force platforms and the operational field events to include the TFTs and the Increment 1 IBCT LUT conducted by Operational Test Command. This included similar M&S and instrumentation support for the Spin Out 1 test. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010		6.530	0.000	0.000	0.000	0.000

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #10 Government Test - FY09 - Provided range support for SUGV and Class 1 Block 0 UAV characterization testing. Provided range support for SO Technical Field Test (TFT) and funds Increment 1 IBCT Limited User Test (LUT). Funded the development and deployment of a M&S wrap around simulation and common instrumentation package for TFT and LUT. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		28.746	0.000	0.000	0.000	0.000
Program #11 A Kit Development/Installation - FY09 - Funded material and labor required to make the Increment 1 IBCT LUT configuration prototype A-Kits, procured material needed for the production configuration A-Kit, as well		5.710	0.000	0.000	0.000	0.000

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
as the labor required to build the prototype A-Kits and modified the digital current force platforms to accept the production configuration NIKs. Purchased 1151 and 1165 HMMWV variants for test purposes. 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 Government Integration of FBCB2 and Network - FY09 - Provided Systems Engineering, SW code changes and technical support to ensure a successful 2009 Increment 1 IBCT Spin Out LUT, including: Adapt 2008 FBCB2 6.5 capability to a BFT (SATCOM) configuration. Enhanced Imagery capability (adds MPEG, provides more robust capability). Added ability to interface simultaneously to multiple networks (FCS provided WNW and BFT) for information dissemination. Provided on site technical support during developmental and field testing. Provided continuous support to Software Problem Report (SPR) resolution. Provided dedicated BFT Network Operations Center (NOC) to support Spin Out 1 LUT (need Unclass and 6.5 based NOC). Provided same capability with FBCB2 JCR 2.x with FCS Spin Out capability but adds ability to "intelligently" route FCS images over the BFT2 network and adds limited logistics threads. FY 2009 Accomplishments: FY 2009		5.601	0.000	0.000	0.000	0.000

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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 #13 Small Business Innovative Research/Small Business Technology Transfer Programs		3.109	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						
Accomplishments/Planned Programs Subtotals		122.788	0.000	0.000	0.000	0.000

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C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• Ord. #1: 0604646A Non-Line of Sight - Launch Sytem	253.684	91.223	81.247	0.000	81.247	58.718	27.418	0.000	0.000	0	512.290
• Ord. #2: 0604647A Non-Line of Sight - Cannon	87.038	47.964	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	135.002
• Ord. #3: 0604660A FCS Manned Ground Vehicles & Common Grd Vehicle Components	760.744	275.116	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	1,035.860
• Ord. #4: 0604661A FCS System of Systems Engr & Program Management	1,022.165	912.399	568.711	0.000	568.711	566.378	582.775	618.755	727.415	Continuing	Continuing
• Ord. #5: 0604662A FCS Reconnaissance (UAV) Platforms	55.923	75.107	50.304	0.000	50.304	12.058	4.180	0.000	0.000	0	197.572
• Ord. #6: 0604663A FCS Unmanned Ground Vehicles	104.571	124.962	249.948	0.000	249.948	98.737	25.368	0.000	0.000	0	603.586
• Ord. #7: 0604664A FCS Unattended Ground Sensors	20.135	26.778	7.515	0.000	7.515	1.071	1.071	0.000	0.000	0	56.570
• Ord. #8: 0604665A FCS Sustainment & Training R&D	819.721	655.745	610.389	0.000	610.389	523.580	366.647	253.810	258.367	Continuing	Continuing
• Ord. #9: 0605625A Manned Ground Vehicle	0.000	79.583	934.366	0.000	934.366	1,882.839	2,242.756	1,375.128	744.771	Continuing	Continuing
• Ord. #10: WTCV G86100 FCS Core Program	154.127	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	154.127
• Ord. #11: WTCV G86200 FCS Spin Out Program	67.268	326.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	394.177
• Ord. #12: WTCV G86000 Ground Combat Vehicle (GCV)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	98.030	778.220	Continuing	Continuing
• Ord. #13: ACFT A00015 BCT Unmanned Aerial Veh (UAVs) Incr 1	0.000	0.000	44.206	0.000	44.206	40.216	12.770	3.718	1.850	Continuing	Continuing

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C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• Ord. #14: ACFT A00016 BCT Unmanned Aerial Veh (UAVs) Incr 2	0.000	0.000	0.000	0.000	0.000	2.141	85.345	90.245	92.686	Continuing	Continuing
• Ord. #15: OPA B00001 BCT Unattended Ground Sensor	0.000	0.000	29.718	0.000	29.718	60.578	9.582	1.544	1.328	Continuing	Continuing
• Ord. #16: OPA B00004 BCT Unattended Ground Sensor Incr 2	0.000	0.000	0.000	0.000	0.000	19.093	87.478	96.172	86.259	Continuing	Continuing
• Ord. #17: OPA B00002 BCT Network	0.000	0.000	176.543	0.000	176.543	192.632	20.619	0.317	0.187	Continuing	Continuing
• Ord. #18: OPA B00003 BCT Network Incr 2	0.000	0.000	0.000	0.000	0.000	81.277	301.864	454.480	431.835	Continuing	Continuing
• Ord. #19: OPA F00001 BCT Unmanned Ground Vehicle	0.000	0.000	20.046	0.000	20.046	42.703	6.002	2.288	1.870	Continuing	Continuing
• Ord. #20: OPA F00002 BCT Unmanned Ground Vehicle Incr 2	0.000	0.000	0.000	0.000	0.000	373.193	710.680	676.230	711.940	Continuing	Continuing
• Ord. #21: OPA G80001 BCT Training/Logistics/Management	0.000	0.000	61.581	0.000	61.581	12.178	94.491	68.033	50.468	Continuing	Continuing
• Ord. #22: OPA G00002 BCT Training/Logistics/Management Incr 2	0.000	0.000	0.000	0.000	0.000	75.069	387.173	396.593	446.806	Continuing	Continuing
• Ord. #23: MSLS C64501 BCT NLOS- LS Incr 1	0.000	0.000	350.574	0.000	350.574	758.657	1,112.115	0.000	0.000	0	2,221.346
• Ord. #24: MSLS C64601 BCT NLOS- LS Incr 2	0.000	0.000	0.000	0.000	0.000	0.000	605.192	679.078	579.210	Continuing	Continuing
D. Acquisition Strategy											
As a result of the elimination of FCS Brigade Combat Team (FBCT), there is no longer a need for a unique FCS Spin Out Program Element. The funding requirements are now spread amongst the appropriate FCS program elements. For example, the testing requirements for E-IBCT are now reflected in PE 0604661A FCS System of System Engineering and Program Management commencing with the FY2010 program year.											

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E. Performance Metrics 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.		

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