Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

2040: Research, Development, Test & Evaluation, Army

PE 0604662A: FCS Reconnaissance (UAV) Platforms

BA 5: Development & Demonstration (SDD)

_											
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	55.923	75.107	50.304	0.000	50.304	12.058	4.180	0.000	0.000	Continuing	Continuing
FC3: FCS RECONNAISSANCE (UAV) PLATFORMS	55.923	75.107	50.304	0.000	50.304	12.058	4.180	0.000	0.000	Continuing	Continuing

A. Mission Description and Budget Item Justification

The XM 156 Class I system for System Development and Demonstration (SDD) provides the dismounted soldier Reconnaissance, Surveillance, and Target Acquisition (RSTA) and has the ability to hover and stare for military operations on rural and urban terrain. The Class I provides imagery data in order to recognize personnel and provide targeting information to the BCT Modernization network during day and night operations and in adverse weather conditions from as high as 1000 feet above ground level. The Army has incorporated an expedited Class I into IBCT Increment 1 (IBCT INC 1) to provide additional Intelligence, Surveillance and Reconnaissance (ISR) capability to the soldier starting in 2011. The Class I IBCT Increment 1 capability will consist of a 25 pound vehicle with a Commercial Off the Shelf (COTS) Electro Optical (EO) sensor and a COTS Infra-Red (IR) sensor and a gasoline based propulsion system. The Class I solution for the IBCT Increment 2 (IBCT INC 2) capability will consist of a 41 pound vehicle featuring an Electro Optical Infra-Red Laser Designator Laser Range Finder (EO/IR/LD/LRF) sensor and a heavy fuel based propulsion system. To meet BCT INC 1 CPD objective requirements, the class I platform requires laser target designation capability which will be incorporated in INC 2. In order for the Class I to carry the laser designation and range finding capability, the airframe and propulsion system must be upgraded to accommodate the additional payload capability. The IBCT INC 2 air vehicle operates in complex urban and rural terrains with a vertical take-off and landing capability. The Class I system is carried in two custom Modular Lightweight Load-carrying Equipment (MOLLEs) and is air droppable with the soldier. The Class I program will integrate and test the following sensor as part of Project FC6, PE 0604665A: Electro Optical Infra-Red Laser Designator Range Finder (EO/IR/LD/LRF) sensor. The XM157 Class IV UAV has a range and endurance appropriate for the brigade mission. The Class IV supports the Brigade Combat Team (BCT) Commander with communications relay, long endurance persistent stare, and wide area surveillance encompassing a 75km radius. Unique missions include Wide Band Communications Relay and minefield detection. Additionally, Class IV has the payloads to enhance the Reconnaissance, Surveillance, and Target Acquisition (RSTA) capability by cross-cueing multiple sensors. It operates at survivable altitudes from a standoff range, conducted both day and night and during adverse weather. The Class IV is a collaboration with the Navy's Vertical Takeoff and Landing Tactical Unmanned Aerial Vehicle (VTUAV) Fire Scout program. The Class IV uses a two phase assembly process. Phase I Integration corresponds to approximately 90% of the complete assembly, which includes major components-airframe, engine, and wiring harness. Phase II Integration adds the unique avionics and payloads completing the Class IV UAV. The unique avionics and payload equipment includes: 1) Type IV Integrated Computer System (ICS); 2) Warfighter's Information Network - Tactical (WIN-T) JC4ISR radio (provisioned for); 3) Airborne Standoff Minefield Detection System (ASTAMIDS) EO/IR/LRF/LD/CM payload; 4) STARLite Synthetic Aperature Radar/Ground Moving Target Indicator (SAR/GMTI) payload; 5) JTRS - Airborne, Maritime and Fixed (AMF) Communications Relay Package (CRP); 6) Universal Ground Data Terminal (UGDT); and 7) Universal Ground Control Station (UGCS). Based on recent determination by the Army the Class IV program was terminated in January of 2010. Future incremental development will incorporate a Class 4 type platform to conduct both the RSTA and Communications relay mission.

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

2040: Research, Development, Test & Evaluation, Army

PE 0604662A: FCS Reconnaissance (UAV) Platforms

BA 5: Development & Demonstration (SDD)

B. Program Change Summary (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	57.190	68.701	9.006	0.000	9.006
Current President's Budget	55.923	75.107	50.304	0.000	50.304
Total Adjustments	-1.267	6.406	41.298	0.000	41.298
 Congressional General Reductions 		-0.394			
 Congressional Directed Reductions 		0.000			
 Congressional Rescissions 	0.000	0.000			
 Congressional Adds 		6.800			
 Congressional Directed Transfers 		0.000			
 Reprogrammings 	0.000	0.000			
 SBIR/STTR Transfer 	-1.267	0.000			
 Adjustments to Budget Years 	0.000	0.000	41.298	0.000	41.298

Change Summary Explanation

Change Summary Explanation: FY11: Program made a Work Breakdown Structure realignment to meet the Congressional request to have the contractor's fee spread to the individual Program Elements

Exhibit R-2A, RDT&E Project Justi	fication: PB 2	011 Army							DATE: Febr	uary 2010			
APPROPRIATION/BUDGET ACT 2040: Research, Development, Test & BA 5: Development & Demonstration	Evaluation, Ar	ту			NOMENCLA A: FCS Reco	ATURE nnaissance (U	VAV)	PROJECT FC3: FCS R. PLATFORM		CONNAISSANCE (UAV)			
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		
FC3: FCS RECONNAISSANCE (UAV) PLATFORMS	55.923	75.107	50.304	0.000	50.304	12.058	4.180	0.000	0.000	Continuing	Continuing		
Quantity of RDT&E Articles													

A. Mission Description and Budget Item Justification

Not applicable for this item.

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1	26.754	0.000	0.000	0.000	0.000
UAV Class I FY09 - Conducted Class I INC 1 PDR 1Q FY09. Began design effort required to support the Class I INC 2 critical design review scheduled for 4Q FY10. Approximately 500 drawings are estimated to be required; forty drawings were completed. Began manufacturing and fabrication of 4 engines and airframes for Engineering Development Assets (EDAs) where EDAs are to be used to conduct initial Class I INC 1 risk reduction testing. Conducted IQT and LUT in FY09. Continued Class I INC 2 system integration in the Class I system integration laboratory to support software development for EO/IR/LD/LRF sensor control, air vehicle flight controls, heavy fuel engine integration and executing mission sets, in order to meet threshold requirements. FY 2009 Accomplishments: FY 2010 Plans: FY 2011 Base Plans: FY 2011 Base Plans: FY 2011 Base					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	uary 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604662A: FCS Reconnaissance (UPlatforms	JAV)	PROJECT FC3: FCS RI PLATFORM			
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 UAV Class I FY10 IBCT Increment 1 - Supported successful MS C decision Conduct of Integrated Qualification Test (IQT) and Limited User Test (LUC Class I IBCT INC 1 Systems with Digital Data Link (DDL) (C2 and video) 3Q FY10 and support LUT in 4Q FY10 with 11 Class I IBCT INC 1 system FY 2009 Accomplishments: FY 2010 Plans: FY 2010 Plans: FY 2011 Base Plans: FY 2011 OCO Plans: FY 2011 OCO	T) for Class I Block 0. Upgrade of 11) radios. Conduct and support IQT in	0.000	12.900	0.000	0.000	0.000
Program #3 UAV Class I FY10 IBCT Increment 2 - Conduct Class I critical design rev drawings are estimated to be required for the Class I system, where 400 dra by Critical Design Review (CDR). Continue maturation of the Heavy Fuel Airworthiness Qualification Specifications. Start Integration of prototype Vehicle.	awings are estimated to be released I Engine and Airframe. Finalize	0.000	21.491	0.000	0.000	0.000

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	uary 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604662A: FCS Reconnaissance (UA) Platforms	V)	PROJECT FC3: FCS RI PLATFORM	ECONNAISSA S	NCE (UAV)	
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: FY 2019 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans:						
FY 2011 OCO Program #4		0.000	0.000	50.304	0.000	50.304
UAV Class I FY11 IBCT Increment 2 - Continue Class I system integra laboratory to support software development for Optical Infra-Red Laser IR/LD/LRF) sensor control, air vehicle flight controls, heavy fuel engine and to support risk reduction testing of Engineering Development Asset requirements. Perform test-fix-test in the Class I system integration lab f and air vehicle flight control software. Provide engineering support for environmental testing. Provide engineering support for integration active Demonstration (SDD) air vehicle equipment for IQT. Deliver 4 engines are to be used to conduct initial Class I risk reduction testing and early environments of 10 prototype air vehicles for delivery in 1QFY12 to support IQT in F FY 2009 Accomplishments: FY 2009	Designator Laser Range Finder (EO/e integration, executing mission sets, as (EDAs) in order to meet threshold for EO/IR/LD/LRF sensor control early risk reduction flight testing and airframes for EDAs, where the EDAs invironmental risk reduction testing. Begin all testing. Begin assembly and integration					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	uary 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604662A: FCS Reconnaissance (U. Platforms	(AV)	PROJECT FC3: FCS RI PLATFORM	ECONNAISSA S	NCE (UAV)	
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 #5 UAV Class IV FY09 - Conducted the Class IV UAVS Preliminary Design Joint Executive Steering group meetings on Common Air Vehicle with Navin Electromagnetic Environmental Effects (E3) and structures. Planned and complete the CDR effort and associated designs in FY10. Developed weight to meet ORD requirements. Managed interfaces between Class IV and STA programs. Completed Phase 1 assembly (install common Army/Navy con Accepted delivery of emulator and brass board Air Platform Communication initial integration into BCT SILs. Conducted Joint Navy/Army Common Statistical integration into BCT SILs. Conducted Joint Navy/Army Common Statistical integration into BCT SILs. Conducted Joint Navy structures personnel passed and Schweizer developed test hardware (Navy structures personnel passed and Schweizer developed test hardware (Navy structures personnel passed and Schweizer developed test hardware (Navy structures personnel passed and B3F operational code, ASI simulation updates as required, air vehand enhanced dynamic weather/terrain updates). Continued development of FY 2009 Accomplishments: FY 2009	ry to ensure cost effective decisions I initiated the efforts needed to at and endurance improvement plans IRLite SAR/GMTI, and ASTAMIDS INDOOR ASTAMING I	29.169	0.000	0.000	0.000	0.000

		DATE: Febr	uary 2010		
	PROJECT FC3: FCS RECONNAISSANCE (UPLATFORMS				
FY 200	9 FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
ing Class IV 94 tion of the Integrated hase II Integration upport IBCT INC upletion of the BC2F less Certification. ent includes all "other"	22.003	0.000	0.000	0.000	
		FC3: FCS Reconnaissance (UAV) FY 2009 FY 2010 FY 2009 FY 2010 O.000 22.003 A pring Class IV 94 Action of the Integrated Phase II Integration support IBCT INC mpletion of the BC2F mess Certification. The includes all "other"	NOMENCLATURE AA: FCS Reconnaissance (UAV) FY 2009 FY 2010 FY 2011 Base O.000 22.003 O.000 ing Class IV 94 tion of the Integrated Phase II Integration support IBCT INC npletion of the BC2F ness Certification. nent includes all "other"	PA: FCS Reconnaissance (UAV) FC3: FCS RECONNAISSANCE (UAV) PLATFORMS FY 2010 FY 2011 FY 2011 Base O.000 22.003 O.000 0.000 ing Class IV 94 tion of the Integrated Phase II Integration support IBCT INC inpletion of the BC2F iness Certification. inent includes all "other"	

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE		PROJECT			
2040: Research, Development, Test & Evaluation, Army	PE 0604662A: FCS Reconnaissance	(UAV)	FC3: FCS RE	ECONNAISSA	NCE (UAV)	
BA 5: Development & Demonstration (SDD)	Platforms		PLATFORM.	S		
B. Accomplishments/Planned Program (\$ in Millions)			1			
				FY 2011	FY 2011	FY 2011
		FY 2009	FY 2010	Base	oco	Total
FY 2011 OCO Plans:						
FY 2011 OCO						
Program #7		0.000	10.000	0.000	0.000	0.000
		0.000	10.000	0.000	0.000	0.000
UAV Class IV IBCT Special Termination costs - Special terminat expenses, and return of field service representatives.	ion costs include severance pays, settlement					
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	6.800	0.000	0.000	0.000
MQ-8B Fire Scout Army - Congressional earmark - Due to aforen	nentioned cancellation of Class IV UAV. the					
program no longer has a requirement for these funds. Currently in						
more appropriate budget line.	-					
FY 2009 Accomplishments:						

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Army

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	uary 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	IJAV)	NCE (UAV)				
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 #9		0.000	0.000	0.000	0.000	0.000
Air Sensor Hardware FY11 IBCT Increment 2 - Deliver 14 Electron Support sensor integration in the Class I UAV SIL in preparation reduction and reliability improvement. Evaluate alternatives for Air Sensor Hardware included in Networks PE 0604665A FC6.	on for UAV tether flights. Continue sensor weight r UAV Class I threat detection. Prior to FY11 all					
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						

				CITOLIA							
Exhibit R-2A, RDT&E Project Justific	cation: PB 20	11 Army							DATE: Febr	ruary 2010	
APPROPRIATION/BUDGET ACTIV 2040: Research, Development, Test & Ev BA 5: Development & Demonstration (S	valuation, Arn	ny		R-1 ITEM N 0 PE 0604662A <i>Platforms</i>			AV)	PROJECT FC3: FCS RI PLATFORM			
B. Accomplishments/Planned Program	n (\$ in Million	ns)									
	,						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Small Business Innovative Research	/Small Busine	ess Technolog	gy Transfer Pr	ogram							
FY 2009 Accomplishments: FY 2009											
FY 2010 Plans: FY 2010											
FY 2011 Base Plans: FY 2011 Base											
FY 2011 OCO Plans: FY 2011 OCO											
			Accomp	olishments/Pla	nned Prograr	ns Subtotals	55.923	75.107	50.304	0.000	50.304
C. Other Program Funding Summary	(\$ in Million	s)									
Line Item • Ord. #1: 0604646A Non Line of Sight - Launch System	FY 2009 253.684	FY 2010 91.223	FY 2011 Base 81.247	FY 2011 OCO 0.000	FY 2011 Total 81.247	FY 2012 58.718	FY 2013 27.418	FY 2014 0.000	FY 2015 0.000	Cost To Complete	Total Cost 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 Grd 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

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R-1 Line Item #90 Page 10 of 18 905 of 1922

Exhibit R-2A, RDT&E Project Justific	ation: PB 20	11 Army				DATE: February 2010								
APPROPRIATION/BUDGET ACTIV 2040: Research, Development, Test & Ev BA 5: Development & Demonstration (St): Research, Development, Test & Evaluation, Army					R-1 ITEM NOMENCLATURE PE 0604662A: FCS Reconnaissance (UAV) Platforms				PROJECT FC3: FCS RECONNAISSANCE (UAV) PLATFORMS				
C. Other Program Funding Summary	(\$ in Millions	<u>s)</u>												
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. #5: 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. #6: 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. #7: 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. #8: 0604666A FCS Spin Out Technology/Capability Insertion	122.788	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	122.788			
• Ord. #9: 0605625A FCS Manned Ground Vehicles	0.000	79.583	934.366	0.000	934.366	1,882.839	2,242.756	1,375.128	744.771	0	7,259.443			
• 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			
• 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			
Z.O. O.	0.000	0.000	20.046	0.000	20.046	42.703	6.002	2.288	1.870	Continuing	Continuing			

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R-1 Line Item #90 Page 11 of 18 906 of 1922

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
2040: Research, Development, Test & Evaluation, Army	PE 0604662A: FCS Reconnaissance (UAV)	FC3: FCS RECONNAISSANCE (UAV)
BA 5: Development & Demonstration (SDD)	Platforms	PLATFORMS

<u>C. Other</u>	Program	Funding	<u>Summary</u>	(\$ in]	<u>Millions)</u>

Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 <u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• Ord. #19: <i>OPA F00001 BCT</i>											
Unmanned Ground Vehicle											
• Ord. #20: <i>OPA F00002 BCT</i>	0.000	0.000	0.000	0.000	0.000	373.193	710.680	676.230	711.940	Continuing	Continuing
Unmanned Ground Vehicle Incr 2											
• Ord. #21: OPA G80001 BCT	0.000	0.000	61.581	0.000	61.581	12.178	94.491	68.033	50.468	Continuing	Continuing
Training/Logistics/Management											
• Ord. #22: <i>OPA G00002 BCT</i>	0.000	0.000	0.000	0.000	0.000	75.069	387.173	396.593	446.806	Continuing	Continuing
Training/Logistics/Management Incr 2											
• Ord. #23: MSLS C64501 BCT NLOS-	0.000	0.000	350.574	0.000	350.574	758.657	112.115	0.000	0.000	0	1,221.346
LS Incr 1											
• Ord. #24: MSLS C64601 BCT NLOS-	0.000	0.000	0.000	0.000	0.000	0.000	605.192	679.078	579.210	Continuing	Continuing
LS Incr 2											

D. Acquisition Strategy

A 23 June 2009 Acquisition Decision Memorandum (ADM) directed the cancellation of the FCS (BCT) acquisition program. It also instructed the Army to transition to an Army modernization plan consisting of a number of integrated acquisition programs. At that time, the SO E-IBCT was designated a pre-MDAP, with a Milestone C decision scheduled for the first quarter FY 2010. A follow-on ADM was issued 9 July 2009. In it, the Army was directed to continue efforts to improve the brigades beyond the Early Infantry Brigade Combat Team acquisition until a standalone program(s) is defined later in 2010. An Army BCT Modernization Defense Acquisition Board (DAB) was then held on October 16, 2009 to review the Army's plans for the post-Future Combat Systems efforts and confirm the Army brigade modernization acquisition plans were consistent with the Secretary of Defense's guidance. An ADM issued after this DAB stated: "The approach, for Increment 1 (Early-Infantry Brigade Combat Team (E-IBCT)) and the Ground Combat Vehicle (GCV) effort, is consistent with the Secretary's guidance and each is being positioned for more in-depth review and acquisition decisions later in 2009." The Increment 1 E-IBCT Milestone C took place 22 December 2009 and was approved in an ADM dated 24 December 2009. The Program Executive Officer-Integration (PEO-I) has modified the existing contract to be compliant with the aforementioned ADMs. This budget justification reflects the Milestone C approved Increment 1 (E-IBCT) program and the follow-on IBCT modernization program planned by the Army.

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.

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 0604662A: FCS Reconnaissance (UAV)

Platforms

PROJECT

FC3: FCS RECONNAISSANCE (UAV)

PLATFORMS

Product Development (\$ in Millions)

				FY	2010		2011 ase		2011 CO	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
Class I	С	Boeing Co. St. Louis, MO See Remark 1	0.000	34.391		50.304		0.000		50.304	Continuing	Continuing	0
Class IV	С	Boeing Co. St. Louis, MO See Remark 2	0.000	22.003		0.000		0.000		0.000	Continuing	Continuing	0
MQ-8B FIRESCOUT	C/TBD	TBD See Remark 3 Location could not be determined.	0.000	6.800		0.000		0.000		0.000	Continuing	Continuing	0
Class IV Special Termination Costs	С	Boeing Co. St. Louis, MO	0.000	10.000		0.000		0.000		0.000	Continuing	Continuing	0
		Subtotal	0.000	73.194		50.304		0.000		50.304			0.000

Remarks

Remark 1: Subcontractor: Honeywell International, Inc - Albuquerque, New MexicoRemark 2: Subcontractor: Northrop Grumman Unmanned Systems - San Diego, CARemark 3: With cancellation of Class IV, the program cannot utilize the MQ-8B Firescout earmarked funding provided by Congress.

Support (\$ in Millions)

				FY	2010		2011 ase	FY 2	2011 CO	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
SBIR/STTR	С	OSD Location could not be determined.	0.000	1.913		0.000		0.000		0.000	Continuing	Continuing	0

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army	PE 0604662A: FCS Reconnaissance (UAV)	FC3: FCS R	ECONNAISSANCE (UAV)
BA 5: Development & Demonstration (SDD)	Platforms	PLATFORM	S

Support (\$ in Millions)

				FY	2010	FY :	2011 ase	FY :	2011 CO	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
Adjustment to budget years	С	ABO Location could not be determined.	0.000	0.000		0.000		0.000		0.000	Continuing	Continuing	0
		Subtotal	0.000	1.913		0.000		0.000		0.000			0.000

Remarks

	Total Prior Years Cost	FY 2010	FY 2 Ba	FY 2	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	75.107	50.304	0.000	50.304			0.000

Remarks

Exhibit R-4, RDT&E Schedule Profile: 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 0604662A: FCS Reconnaissance (UAV)

Platforms

PROJECT

FC3: FCS RECONNAISSANCE (UAV)

PLATFORMS

		F Y :	2009	9	F	Y :	201	0	I	Y 2	201	1	I	FY 2	2012	2	I	FY 2	201	3]	FY	201	4	F	Y 2	2015	5
	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
Increment 1 Total Program Tasks			#	#	#	#	#	#	#	#	#																	
Incr 1 Limited User Test FY 09			#																									
Incr 1 STX / FDT&E / LUT 10						#	#																					
Incr 1 Milestone C				#																								
Incr 1 Production Contract Award					#																							
Incr 1 Production Delivery							#	#	#	#																		
Incr 1 Initial Operational Test & Evaluation											#																	
Incr 1 First Unit Equipped											#																	
Incr 1 Initial Operational Capability													#															
Increment 2 Total Program Tasks										#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#		
Incr 2 CDR										#																		
Incr 2 FDT&E / STX / LUT 13															#	#												
Incr 2 Milestone C																		#										
Incr 2 Initial Operational Capability																										#		
Incr 1 Program Tasks			#	#	#	#	#	#	#	#	#																	
Class I E-IBCT CDR (Old date)			#																									
Class I E-IBCT Prototypes (Old date)		#																										
Class I E-IBCT IQT (Old date)	#	#	#																									
Class I E-IBCT UAV Airworthiness Approval					#																							
Class I T-IBCT CDR							#																					

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

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R-1 ITEM NOMENCLATURE

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PLATFORMS

	1	FY 2	200	9	I	FY 2	201	0	I	Y 2	201	1	I	FY 2	2012	2	I	FY 2	201.	3	F	Y 2	2014	1	I	FY 2	201	5
	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
Class I T-IBCT Prototype Deliveries (10)											#	#	#															
Class I T-IBCT Qualification Testing (IQT)											#	#	#	#	#													
Class I T-IBCT Airworthiness Approval (Old date)																#												
Class IV UAV Critical Reviews - CDR						#																						
Class IV UAV Prototype Deliveries (8)										#	#																	
Class IV UAV Initial Qualification Testing (IQT)										#	#	#	#	#														
Class IV UAV Airworthiness Approval											#																	

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army
BA 5: Development & Demonstration (SDD)

Platforms

DATE: February 2010

R-1 ITEM NOMENCLATURE
PE 0604662A: FCS Reconnaissance (UAV)
Platforms

PC3: FCS RECONNAISSANCE (UAV)
PLATFORMS

Schedule Details

Limited User Test FY 09 STX / FDT&E / LUT 10 Milestone C Production Contract Award Production Delivery Initial Operational Test & Evaluation First Unit Equipped Initial Operational Capability ment 2 Total Program Tasks CDR FDT&E / STX / LUT 13 Milestone C Initial Operational Capability Program Tasks	Sta	art	E	nd
Event	Quarter	Year	Quarter	Year
Increment 1 Total Program Tasks	3	2009	3	2011
Incr 1 Limited User Test FY 09	3	2009	3	2009
Incr 1 STX / FDT&E / LUT 10	2	2010	3	2010
Incr 1 Milestone C	4	2009	4	2009
Incr 1 Production Contract Award	1	2010	1	2010
Incr 1 Production Delivery	3	2010	2	2011
Incr 1 Initial Operational Test & Evaluation	3	2011	3	2011
Incr 1 First Unit Equipped	3	2011	3	2011
Incr 1 Initial Operational Capability	1	2012	1	2012
Increment 2 Total Program Tasks	2	2011	2	2015
Incr 2 CDR	2	2011	2	2011
Incr 2 FDT&E / STX / LUT 13	3	2012	4	2012
Incr 2 Milestone C	2	2013	2	2013
Incr 2 Initial Operational Capability	2	2015	2	2015
Incr 1 Program Tasks	3	2009	3	2011
Class I E-IBCT CDR (Old date)	3	2009	3	2009
Class I E-IBCT Prototypes (Old date)	2	2009	2	2009
Class I E-IBCT IQT (Old date)	1	2009	3	2009

Exhibit R-4A, RDT&E Schedule Details: 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 0604662A: FCS Reconnaissance (UAV)

Platforms

PROJECT

FC3: FCS RECONNAISSANCE (UAV)

PLATFORMS

	Sta	ırt	En	ıd
Event	Quarter	Year	Quarter	Year
Class I E-IBCT UAV Airworthiness Approval	1	2010	1	2010
Class I T-IBCT CDR	3	2010	3	2010
Class I T-IBCT Prototype Deliveries (10)	3	2011	1	2012
Class I T-IBCT Qualification Testing (IQT)	3	2011	3	2012
Class I T-IBCT Airworthiness Approval (Old date)	4	2012	4	2012
Class IV UAV Critical Reviews - CDR	2	2010	2	2010
Class IV UAV Prototype Deliveries (8)	2	2011	3	2011
Class IV UAV Initial Qualification Testing (IQT)	2	2011	2	2012
Class IV UAV Airworthiness Approval	3	2011	3	2011