

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2005

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604622A - Family of Heavy Tactical Vehicles

COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	16282	19631	3415	7462	1933	1934	2932	2927	Continuing	Continuing
659 FAMILY OF HVY TAC VEH	1402	10546	0	3561	0	0	0	0	Continuing	Continuing
65A MOVEMENT TRACKING SYSTEM (MTS)	0	2375	2427	2892	923	926	896	893	0	11332
E49 HEMTT	13940	6710	0	0	0	0	0	0	0	34472
E50 TRAILER DEVELOPMENT	940	0	988	1009	1010	1008	2036	2034	0	9025

A. Mission Description and Budget Item Justification: This program element aligns system development and demonstration of Heavy Tactical Vehicles with Future Force requirements to support combat and combat support missions. These missions include the following: line haul, local haul, and unit resupply. These trucks transport water, ammunition, and general cargo over all terrain and throughout the battle-space. Funding in Project 65A is for the development of the Movement Tracking System (MTS). Funding in Project 659 supports the Heavy Tactical Vehicle A3 program as well as the 21st Century Truck and Jumpstart FTTS ACTD programs. Funding in Project E50 supports the continued modernization of the Army's trailer fleets and supports the continuous product improvements, technology insertion, and new capabilities for tactical trailers.

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<u>B. Program Change Summary</u>	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2005)	2479	3467	43036
Current Budget (FY 2006/2007 PB)	19631	3415	7462
Total Adjustments	17152	-52	-35574
Net of Program/Database Changes			
Congressional Program Reductions			
Congressional Rescissions	-285		
Congressional Increases	18000		
Reprogrammings			
SBIR/STTR Transfer	-563		
Adjustments to Budget Years		-52	-35574

Funding: FY2005: Increase of \$17152K (Congressional Increase for HEMTT A3, HETS, PLS & FTTS)
 FY2006: Decrease of \$52K of the Movement Tracking System (MTS).
 FY2007: Increase of \$93K for FHTVs.
 FY2007: Increase of 2892K for MTS.
 FY2007: Decrease of \$38577K in the Future Tactical Truck System Program.
 FY2007: Increase of \$18K for trailer development.

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COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
659 FAMILY OF HVY TAC VEH	1402	10546	0	3561	0	0	0	0	Continuing	Continuing

A. Mission Description and Budget Item Justification: The FY2007 funding also supports the Heavy Tactical Vehicle A3 program. The existing Heavy Tactical Vehicle programs require insertion of current, mature technology to increase the capability of the vehicle toward the future force requirements. This technology infusion will be accomplished through the A3 program within the objective level capabilities of the current Operational Requirements Documents. The Army's next generation of tactical truck, as part of the Army's Tactical Wheeled Vehicle Modernization Strategy, leverages the 21st Century Truck and Jumpstart FTTS ACTD programs. These programs have developed new vehicle capabilities by integrating key technologies such as hybrid electric engines, advanced lightweight materials, intelligent control systems, and embedded diagnostics into military vehicles.

<u>Accomplishments/Planned Program</u>	FY 2004	FY 2005	FY 2006	FY 2007
Development of the engineering and prototype models of the M915 Crew Protection Kit	102	0	0	0
Acquire prototypes for testing	500	0	0	0
Conduct prototype testing on the M915 Crew Protection Kit	800	0	0	0
Incorporate technology to advance the state of Heavy Tactical Vehicles A3 performance and perform testing	0	0	0	3561
PLS Block I Development	0	1220	0	0
HET Block I Development	0	1830	0	0
Contracts for Development and Demonstration of the FTTS MSV and UV. The contract will be for the fabrication and delivery of 2 MSVs and 2 UVs with companion trailers.	0	7496	0	0
Totals	1402	10546	0	3561

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B. Other Program Funding Summary	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
OPA1 D15900, Truck, Tractor, Line Haul	24670	17845	6192	4460	1215	0	0	0	0	54382
OPA1 D16103, Movement Tracking System	19897	43731	27646	76158	29142	26176	28259	30604	0	281613
OPA1 D16500, PLS Truck	30994	12219	26833	26156	75525	55292	13997	12771	0	253787

C. Acquisition Strategy: Limited RDTE effort to support follow-on production. Funds also for developing Army's next generation of tactical truck.

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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Program Management	IN-HOUSE	TACOM, Warren, MI	0	0		0		0		0	0	0
b . Crew Protection Kit System Development & Demonstration Award	C-CPFF	Simula, Phoenix, AZ	1402	0		0		0		0	1402	0
c . A3 Tech Insertion	C-CPFF	TBD	0	0		0	2Q	3561	2Q	0	3561	0
d . PLS Block I Development	FFP	Oshkosh Truck, Oshkosh, WI	0	1220	3Q	0		0		0	1220	0
e . HET Block I Development	FFP	Oshkosh Truck, Oshkosh, WI	0	1830	3Q	0		0		0	1830	0
f . Contract to Develop and Demonstrate FTTS MSV and UV	FFP	TBD	0	7496		0		0		0	7496	0
Subtotal:			1402	10546		0		3561		0	15509	0

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II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

Project Total Cost:			1402	10546		0		3561		0	15509	0
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Schedule Profile (R4 Exhibit)

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Event Name	FY 04				FY 05				FY 06				FY 07				FY 08				FY 09				FY 10				FY 11			
	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	1	2	3	4
Award SDD Contract																																
Testing																																
MTS Interface Development																																
A3 Tech Insertion																																
PLS Block I Development																																
HET Block 1 Development																																
FTTS ACTD Phase II																																
Contract Awards (Hardware Options)																																
FTTS MSV-UV Build																																
Build																																
FTTS MSV/UV Delivery																																

Schedule Detail (R4a Exhibit)

February 2005

BUDGET ACTIVITY
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<u>Schedule Detail</u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Award System Development & Demonstration contract for Crew Protection Kit	3Q							
Conduct testing on Crew Protection Kit	4Q	1-2Q						
A3 Tech Insertion				2-4Q	1Q			
PLS Block I Development		3Q	1-2Q					
HET Block I Development		3Q	1-2Q					
FTTS ACTD Phase II		2-4Q	1-2Q					
Contract Awards (Hardware Options)		2-3Q						
FTTS MSV-UV Build		2-4Q	1-2Q					
Build		2-4Q	1-2Q					
FTTS MSV/UV Delivery			1-2Q					

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COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
65A MOVEMENT TRACKING SYSTEM (MTS)	0	2375	2427	2892	923	926	896	893	0	11332

A. Mission Description and Budget Item Justification: Movement Tracking System (MTS) is a satellite based, asset visibility and situational awareness enabler that assists Combat Support/Combat Service Support (CS/CSS) commanders and their staffs. MTS identifies and tracks the location of vehicles, communicates with vehicle operators, and redirects missions on a worldwide, near real-time basis during peacetime operations and war. MTS provides the capability to link ground level operators conducting missions and commanders/managers that plan, direct, and control operations and allows for continuous CS/CSS asset visibility across the tactical area of operations. FY2006 and FY2007 funding supports development of block modifications on the MTS. This block modification will develop and test required interfaces to TC AIMS II (direct electronic interface) and GCSS-Army (direct electronic interface).

Accomplishments/Planned Program	FY 2004	FY 2005	FY 2006	FY 2007
Development of block modifications on the Movement Tracking System	0	2375	2427	2892
Totals	0	2375	2427	2892

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<u>B. Other Program Funding Summary</u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
OPA1 D16103000, Movement Tracking System (MTS)	19897	43731	27646	76158	29142	26176	28259	30604	0	281613

C. Acquisition Strategy: RDTE efforts to support block development approach through a continuous series of overlapping modular development and integration testing to include multiple interface development in support of follow-on production.

ARMY RDT&E COST ANALYSIS(R3)

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PROJECT
65A

I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Software development, engineering, testing, program management	C/CPIF	Comtech Mobile, Germantown, MD	0	2375	1-3Q	2427	2Q	2892	1Q	0	7694	0
Subtotal:			0	2375		2427		2892		0	7694	0

II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
			0	0		0		0		0	0	0
Subtotal:			0	0		0		0		0	0	0

ARMY RDT&E COST ANALYSIS(R3)

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III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

Project Total Cost:			0	2375		2427		2892		0	7694	0
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Schedule Profile (R4 Exhibit)

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PROJECT
65A

Event Name	FY 04				FY 05				FY 06				FY 07				FY 08				FY 09				FY 10				FY 11			
	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	1	2	3	4
MTS Continuous Block Improvements	[Redacted]																															
Full Fielding																													[Redacted]			
Sustainment																																

- Prog start - FY07
- Oper T&E - Apr-Jul 00
- FY03 Fld - 10% of planned qty
- Over 2200 sys pushed to CFLCC in FY03 to spt oper in Iraq
- FY04 Fld - 14% of planned qty

Schedule Detail (R4a Exhibit)

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<u>Schedule Detail</u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
MTS Continuous Block Improvements		2-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q
Full Fielding	1-4Q							
Sustainment	1-4Q							

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PROJECT
E4

COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
E49 HEMTT	13940	6710	0	0	0	0	0	0	0	34472

A. Mission Description and Budget Item Justification: FY2004 funds the Heavy Expanded Mobility Tactical Truck (HEMTT) A3 prototype development. The HEMTT vehicle program requires insertion of current, mature technology to increase the capability of the vehicle toward the future force requirements. This program funded under Project 659 after FY 2004. Received 2005 Congressional add to continue A3 prototype development.

Accomplishments/Planned Program	FY 2004	FY 2005	FY 2006	FY 2007
HEMTT advanced technology improvement development.	3896	4215	0	0
HEMTT advanced technology improvement prototypes.	5500	1000	0	0
Testing of HEMTT advanced technology improvements.	2000	1170	0	0
Development of Condition Based Maintenance	2544	0	0	0
In House Support	0	325	0	0
Totals	13940	6710	0	0

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PROJECT
E4

B. Other Program Funding Summary	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
OPA1, DA0500, Family of Heavy Tactical Vehicles	185141	84038	207096	284999	240232	221242	148020	95458	0	1466226

C. Acquisition Strategy: Limited RDTE effort to support follow-on production. Continue A3 prototype development.

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PROJECT
E4

I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Technical Improvement Development - Government	IN HOUSE	TACOM, Warren, MI	692	285	1-4Q	0		0		0	977	0
b . Technical Improvement Development - Contractor	CPFF	Oshkosh Truck Corp., Oshkosh, WI	15392	4215	3Q	0		0		0	19607	0
c . Technical Improvement Prototypes	CPFF	Oshkosh Truck Corp., Oshkosh, WI	4084	1000	3Q	0		0		0	5084	0
d . Condition Based Maintenance Development	CPFF	DRS Laurel	2544	0		0		0		0	2544	0
Subtotal:			22712	5500		0		0		0	28212	0

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II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . HEMTT Technical Improvement Testing	MIPR	APG, Aberdeen, MD	80	0		0		0		0	80	0
b . Test of HEMTT advanced technology improvements	CONTRACT	Oshkosh, WI	2109	1210	3Q	0		0		0	3319	0
Subtotal:			2189	1210		0		0		0	3399	0

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BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE 0604622A - Family of Heavy Tactical Vehicles	PROJECT E4
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IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
			0	0		0		0		0	0	0
Subtotal:												
Project Total Cost:			24901	6710		0		0		0	31611	0

Schedule Profile (R4 Exhibit)

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PROJECT
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Event Name	FY 04				FY 05				FY 06				FY 07				FY 08				FY 09				FY 10				FY 11							
	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	1	2	3	4				
	HEMTT TI Development																																			
HEMTT TI Prototypes																																				
HEMTT TI Testing																																				
HEMTT A3 Production																																				
(1) HEMTT A3 FUE																																				

Schedule Detail (R4a Exhibit)

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PROJECT
E4

<u>Schedule Detail</u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
HEMTT Technical Improvement development	1-3Q							
HEMTT Technical Improvement Prototypes	1-4Q							
HEMTT Technical Improvement Testing	4Q	1-4Q						
HEMTT A3 Production			4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q
HEMTT A3 FUE				2Q				

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E50

COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
E50 TRAILER DEVELOPMENT	940	0	988	1009	1010	1008	2036	2034	0	9025

A. Mission Description and Budget Item Justification: This program element supports continued modernization of the Army's trailer fleets. The funds support continuous product improvements, technology insertion, and new capabilities for tactical trailers.

Program Executive Office Combat Support and Combat Service Support (PEO-CS&CSS) is developing a Trailer Transformation Strategy as a companion to the Tactical Wheeled Vehicle Truck Strategy. Funding will include continued technical insertion of the current fleet, such as lighter weight materials and new suspension technologies, as well as development of a strategy for semi-trailer modernization by creating one scalable, modular semi-trailer that could replace a variety of different models. Improved trailers can operate more effectively when towed by improved tractors or tactical vehicles.

Accomplishments/Planned Program	FY 2004	FY 2005	FY 2006	FY 2007
Feasibility testing of enhanced M800 Series Semi-Trailers	445	0	0	0
Program Integration	175	0	0	0
Program Management	200	0	0	0
Enhanced M800 Series Semi-Trailer	120	0	0	0
Current fleet technical insertion.	0	0	300	300
Design, develop and build System Prototype Demonstrator Trailer(s)	0	0	688	709
Totals	940	0	988	1009

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B. Other Program Funding Summary	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
OPA 1 D00700 Semi-Trailer LB 40T M870A3	1061	1531	582	433	0	0	0	0	0	3607
OPA 1 D01500 Semi-Trailer Flatbed 22.5T M871A3	19888	5931	4089	3801	9295	10228	3331	3334	0	59897
OPA 1 D01600 Semi-Trailer Flatbed 34T M872A4	8361	1744	1378	815	870	6695	0	0	0	19863

M872A4
 Initial efforts relate to flatbed trailers; however, any member of the tactical trailer fleet may be affected.

C. Acquisition Strategy: Conduct feasibility testing on existing tactical semi-trailers. Identify enhanced transportability and safety concepts and other responses to field issues. Modify existing equipment or develop new equipment. The ultimate goal is to develop and test improvements, acquire necessary technical data, and place improved hardware into production.

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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Program Integrator	Firm Fixed Price (FFP)	Kalyn Siebert. Gatesville, TX	175	0		0		0		Continue	175	Continue
b . Program Management	In-House	TACOM-WRN	200	0		0		0		Continue	200	Continue
c . Enhanced M800 Series Semi-Trailer	Firm Fixed Price (FFP)	Davis Technologies, Inc, Addison, TX.	120	0		0		0		Continue	120	Continue
d . M870A3 Suspension testing	MIPR	Aberdeen Test Center, Aberdeen, MD	445	0		0		0		0	445	0
e . Current fleet technical insertion	TBS	To Be Selected (TBS)	0	0		300	2Q	300	2Q	Continue	600	Continue
f . Design, develop and build System Prototype Demonstrator Trailer(s)	TBS	To Be Selected (TBS)	0	0		688	2Q	709	2Q	0	1397	0
Subtotal:			940	0		988		1009		Continue	2937	Continue

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II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

Project Total Cost:			940	0		988		1009		Continue	2937	Continue
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Schedule Profile (R4 Exhibit)

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PROJECT
E50

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	1	2	3	4	1	2	3	4
	(1) Publish R&D Plan								▲1																											
(2) Industry Day								▲2																												
(3) Contract Award												▲3																								
(4) Contract Award												▲4																								
(5) Start of Work (SOW)												▲5																								
Build System Prototype Demonstrator													■																							
(6) Preliminary Design Review (PDR)																▲6																				
Drawing Development																	■																			
(7) Critical Design Review (CDR)																				▲																
Technical Feasibility Test																																				
Technical Insertion/Design/Development																																				

Schedule Detail (R4a Exhibit)

February 2005

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604622A - Family of Heavy Tactical Vehicles

PROJECT
E50

<u>Schedule Detail</u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Publish R&D Plan	1-2Q							
Industry Day	1Q							
Select Program Integrator	2Q							
Contract Award	3Q							
Preliminary Design Review (PDR)	3Q							
Start of Work (SOW)	3Q							
Build System Prototype Demonstrator	3Q	1Q						
Preliminary Design Review (PDR)	4Q							
Drawing Development	4Q	1-3Q						
Critical Design Review (CDR)		1Q						
Technical Feasibility Test		1-2Q						
Technical Insertion/Design/Development		4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q