

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)	DATE February 1999
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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604854A Artillery Systems - Engineering Development
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COST (In Thousands)	FY1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	0	1093	65806	327883	440370	278524	300819	44099	10000	1468584
D509 Advanced Towed Cannon Artillery System	0	993	4833	11485	29023	17122	0	0	0	63456
D503 Crusader - Engineering Development*	0	0	60577	315253	411147	258072	295415	23988	0	1364442
D2KT Crusader Operational Test	0	100	396	1145	200	3330	5404	20111	10000	40686

*In FY 2002/2003 the database amounts of 411143 and 258066 erroneously reflect the spread of the pay increase to this line. What appears above is the correct amounts for FY 2002/2003.

A. Mission Description and Budget Item Justification: : This program element supports the Engineering and Manufacturing Development (EMD) efforts for the Joint Light Weight (LW) 155mm Howitzer-Engineering Development program, the Crusader-Engineering Development program and the Crusader Operational Test program. The Crusader system is the Army's next generation artillery system consisting of a self-propelled howitzer (SPH) and a resupply vehicle (RSV). Crusader will have significantly increased capabilities in the areas of lethality, mobility, survivability, resupply, command and control, and sustainability by capitalizing on emerging, advanced technologies. The SPH will also achieve increased lethality levels through independent operations. The RSV will have significantly increased capabilities in the areas of resupply, mobility and survivability and will provide a single source of ammunition, fuel, propellant and other supplies for the SPH. The LW 155mm Towed Howitzer, a joint program with the Marine Corps, will provide the replacement for the M198, 155mm Howitzer and achieve significant strategic, tactical mobility and automated digital fire control improvements.

B. Program Change Summary	FY 1998	FY 1999	FY 2000	FY 2001
Previous President's Budget (FY 1999 PB)	0	100	55410	338811
Appropriated Value		1100		
Adjustments to Appropriated Value				
a. Congressional General Reductions		-7		
b. SBIR / STTR				
c. Omnibus or Other Above Threshold Reductions				
d. Below Threshold Reprogramming				
e. Rescissions				
Adjustments to Budget Years Since FY 1999 PB			+10396	-10928
Current Budget Submit (FY 2000 / 2001 PB)	0	1093	65806	327883

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BUDGET ACTIVITY
5 - Engineering and Manufacturing Development

PE NUMBER AND TITLE
**0604854A Artillery Systems - Engineering
Development**

Change Summary Explanation: FY 2000 program increase to support the purchase of additional EMD long-lead items.

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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)	DATE February 1999
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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604854A Artillery Systems - Engineering Development	PROJECT D509
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COST (In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
D509 Advanced Towed Cannon Artillery System	0	993	4833	11485	29023	17122	0	0	0	63456

A. Mission Description and Budget Item Justification: The Light Weight (LW) 155mm Towed Howitzer, a joint program with the Marine Corps, will provide the replacement for the M198, 155mm Howitzer and achieve significant strategic and tactical mobility improvements. Project D509 supports the EMD for the Army Product Improvement Suite to the Basic LW155 Towed Howitzer, a USMC /Army Joint Program. A portion of the funds in FY02 and FY03 will be used to support the Digitization of all current and future developmental US 155MM Towed Artillery Systems.

FY 1998 Accomplishments: Project not funded in FY1998.

FY 1999 Planned Program:

- 967 Draft Performance Spec, RFT and Acquisition Strategy, Conduct Milestone I/II.
 - 26 Small Business Innovative Research/Small Business Technology Transfer Program
- Total 993

FY 2000 Planned Program:

- 459 Provide Government matrix engineering program support and participation in Integrated Product Teams (IPRs) for the prime development contract.
 - 220 Provide Government Program Management Support
 - 4154 Continue Prime EMD contract to develop the digitization suite
- Total 4833

FY 2001 Planned Program:

- 605 Provide Government matrix engineering program support and participation in Integrated Product Teams (IPRs) for the prime development contract.
 - 230 Provide Government Program Management Support
 - 8900 Continue Prime EMD contract to develop the digitization suite
 - 1750 Begin Developmental Testing at Component level.
- Total 11485

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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604854A Artillery Systems - Engineering Development	PROJECT D509
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B. Other Program Funding Summary	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	To Compl	Total Cost
RDTE, N LW155 Towed How 060363M	36180	25409	23588	12300						97477
PMC LW155 Towed How Prod, Bli 218500				10002	93900	118724	148514	90933		462073
Procurement, WCTV, Army, G01700					688	16518	18333	52456	320200	408195

C. Acquisition Strategy: The overall program acquisition strategy parallels the USMC EMD and Production phases for their LW155 howitzers. Using the baseline model design, identified P3I modules will evolve through a generational process which leverages technology demonstration successes (2nd Generation) funded through the Army's Rapid Force Projection Initiative (RFPI). The follow-on Army funded R&D effort will then refine the advanced modules to be incorporated onto Army and USMC howitzers. The principal strategy for the Army funded P3I Suite is to negotiate a contract with a single contractor to build, test, and evaluate P3I technologies prior to Army LW155 production. The Marine Corps will monitor, assess and opt to retrofit those P3Is deemed appropriate for the current expeditionary operational environment.

D. Schedule Profile	<u>FY 1996</u>	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
MS I/II					1 st Qtr					
Contract Award					2 nd Qtr					
Developmental Testing Begins						1 st Qtr				
Developmental Testing Ends							4 th Qtr			
Multi-service Operational Testing Begins								1 st Qtr		
Multi-service Operational Testing Ends								2 nd Qtr		
Milestone III								4 th Qtr		
Production									1 st Qtr	

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ARMY RDT&E COST ANALYSIS (R-3)										DATE February 1999		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604854A Artillery Systems - Engineering Development					PROJECT D509		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. P3I/Digitization	CPIF	TBD	0	0		4154	2 nd Qtr	8900		43247	56301	
b. Govt Eng Spt	MIPR	Picatinny Arsenal		967		459	1 st Qtr	605	1 st Qtr	268	2299	
Subtotal Product Development:				967		4613		9505		43515	58600	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. PM Management	Allotment	JPM LW155, NJ				220	1 st Qtr	230	1 st Qtr	480	930	
Subtotal Support Costs:						220		230		480	930	
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Developmental Tests	MIPR	Yuma Proving Ground						1750	1 st Qtr	1900	3650	
b. Multi-service Oper Test	MIPR	Yuma Proving Ground								250	250	
Subtotal Test and Evaluation:								1750		2150	3900	
IV. Management Services:	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
SBIR/STTR				26							26	
Subtotal Mgt Services:				26							26	
Project Total Cost:				993		4833		11485		46145	63456	

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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								DATE February 1999		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604854A Artillery Systems - Engineering Development				PROJECT D503		
COST (In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
D503 Crusader - Engineering Development*	0	0	60577	315253	411147	258072	295415	23988	0	1364442
<p><small>*In FY 2002/2003 the database amounts of 411143 and 258066 erroneously reflect the spread of the pay increase to this line. What appears above is the correct amounts for FY 2002/2003.</small></p> <p>A. <u>Mission Description and Budget Item Justification:</u> This project element supports the Engineering and Manufacturing Development (EMD) efforts for the Crusader-Engineering Development program. The Crusader system is the Army's next generation artillery system consisting of a self-propelled howitzer (SPH) and a resupply vehicle (RSV). Crusader will have significantly increased capabilities in the areas of lethality, mobility, survivability, resupply, command and control, and sustainability by capitalizing on emerging, advanced technologies. The SPH will also achieve increased lethality levels through independent operations. The RSV will have significantly increased capabilities in the areas of resupply, mobility and survivability and will provide a single source of ammunition, fuel, propellant and other supplies for the SPH.</p> <p>FY 1998 Accomplishments: Project not funded in FY1998.</p> <p>FY 1999 Planned Program: Project not funded in FY1999.</p> <p>FY 2000 Planned Program:</p> <ul style="list-style-type: none"> • 60577 Product Development: Initiate developmental efforts under Crusader EMD contract. Initiate EMD long lead item buys. <p>Total 60577</p> <p>FY 2001 Planned Program:</p> <ul style="list-style-type: none"> • 300225 Product Development: Initiate system fabrication of EMD prototypes. Initiate production facility and design activity. Continue long lead item buys. Continue developmental efforts under Crusader EMD contract. • 9659 Support and Management: Continue project management activities, to include; engineering analysis, product development team support and engineering management activities. Finalize EMD continuation decision. • 5369 Test and Evaluation: Continue System Reliability Growth Testing. Complete Ballistic Hull and Turret Survivability Testing. Purchase of ammunition and propellant to support program testing. <p>Total 315253</p>										
B. <u>Other Program Funding Summary</u>										
	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To Comp</u>	<u>Total Cost</u>
Project D503										

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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604854A Artillery Systems - Engineering Development	PROJECT D503
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B. Other Program Funding Summary	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To Comp</u>	<u>Total Cost</u>
RDTE, BA4, Army, PE 0603854, D505	298012	311257	282937	120457	4	6			0	1241461
Procurement, WCTV, Army, G83500					41607	95543	382601	628003	9437130	10584884
Procurement, WCTV, Army, G83600					32967	80240	314331	499726	7633500	8560764
RDTE, BA5, Army, PE 0604854, D2KT		100	396	1145	200	3330	5404	20111	10000	40686
RDTE, BA4, Army, PE 0603640, DB91	7983								0	115572
Procurement, Ammo, Army, ER 8021			42938	55602	73182	93248	54184	78394	Cont	Cont
RDTE, BA5, Army, PE 0604645, D175		4470	2899	2214					0	43281
Procurement, Ammo, Army, ER 8017		1510	14061	45917	53257	53921	54032	56430	Cont	Cont

C. Acquisition Strategy: On 29 December 1994, a Sole Source-CPIF contract award was made selecting United Defense, Limited Partnership (UDLP) as the prime contractor for the PDRR phase of Crusader. General Dynamics Land Systems (Warren, MI) and General Dynamics Armament Systems (Burlington, VT) are the major sub-contractors in the areas of mobility and resupply respectively. On 19 March 1996, the Army changed the armament system for Crusader from liquid propellant (LP) to solid propellant (SP) as a consequence of cost and persistent technical problems. In March 1996, the contract with UDLP was restructured to reflect the change from LP to SP. In June 1996, UDLP selected the government's Advanced Solid Propellant Armament system [XM297 cannon and Modular Artillery Charge System (MACS) as the basis for SP Crusader]. On 6 November 1996, TACOM-ARDEC signed a Memorandum of Agreement (MOA) with UDLP establishing a unique teaming arrangement for the Government to provide engineering services to UDLP for the development of the SP armament system. On 29 January 1997, UDLP signed a contract modification worth \$804.9M that definitized the remainder of PDRR and details the scope of work through MSII. Delay in the decision to switch from LP to SP and alignment of program activities to match fiscal profile required an adjustment in the schedule portion of the Acquisition Program Baseline (APB). On 23 October 1997, the Office of the Secretary of Defense approved Crusader's revised APB. The revised APB leverages acquisition reform initiatives and features a single continuous objective development path. The seamless transition from PDRR to EMD eliminates inefficiencies in ramping down/up during the milestone decision.

D. Schedule Profile	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
PEO/Cmdt In-Process-Review (IPR)	4 th Qtr*							
Integration Checkout		4 th Qtr						
Safety Certification Activity		4 th Qtr						
Select Production Facility			4 th Qtr					
Milestone II				2 nd Qtr				
EMD Continuation Review				4 th Qtr				
LRIP IPR						4 th Qtr		
FUE								4 th Qtr

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BUDGET ACTIVITY
5 - Engineering and Manufacturing Development

PE NUMBER AND TITLE
**0604854A Artillery Systems - Engineering
Development**

* Milestone completed

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ARMY RDT&E COST ANALYSIS (R-3)										DATE February 1999		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604854A Artillery Systems - Engineering Development						PROJECT D503		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Systems Contract	SS/CPIF	UDLP, Minneapolis, MN	0	0	-	60577	Oct-99	296275	Oct-00	886588	1243440	
b. System Development Engineering	PO	ARDEC, Picatinny Arsenal, NJ	0	0	-	0	-	2000	Oct-00	1500	3500	
c. System Development Engineering	PO	TACOM, Warren, MI	0	0	-	0	-	448	Oct-00	2662	3110	
d. System Development Engineering	PO	ARL, Adelphi, MD	0	0	-	0	-	400	Oct-00	2400	2800	
e. System Development Engineering	PO	Various OGAs	0	0	-	0	-	788	Oct-00	358	1146	
f. System Development Engineering	Various	Various contracts	0	0	-	0	-	314	Oct-00	0	314	
Subtotal Product Development:						60577		300225		893508	1254310	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Development Support	PO	PM Crusader, Picatinny Arsenal, NJ	0	0	-	0	-	3397	Oct-00	21716	25113	
b. Development Support	PO	ARDEC, Picatinny Arsenal, NJ	0	0	-	0	-	3654	Oct-00	24009	27663	
c. Integrated Logistics Support	PO	RIA, Rock Island, IL	0	0	-	0	-	80	Oct-00	493	573	
d. Development Support	PO	TACOM, Warren, MI	0	0	-	0	-	788	Oct-00	5663	6451	
e. Development Support	PO	ARL, Adelphi, MD	0	0	-	0	-	404	Oct-00	2625	3029	
f. Development Support	PO	Various OGAs	0	0	-	0	-	368	Oct-00	2316	2684	
g. Development Support	Various	Various contracts	0	0	-	0	-	81	Oct-00	810	891	
Subtotal Support Costs:								8772		57632	66404	

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ARMY RDT&E COST ANALYSIS (R-3)										DATE February 1999		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604854A Artillery Systems - Engineering Development					PROJECT D503		
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Development Test and Evaluation	PO	TECOM (YPG, AZ; CSTA, APG, MD)	0	0	-	0	-	2149	Oct-00	22611	24760	
b. Ammunition and propellant	PO	Various	0	0	-	0	-	3220	Oct-00	10422	13642	
Subtotal Test and Evaluation:								5369		33033	38402	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Project Management Support	SS/FP	Various	0	0	-	0	-	440	Oct-00	1554	1994	
b. Systems Engineering Support	SS/FP	Various	0	0	-	0	-	257	Oct-00	1685	1942	
c. Software Development Support	SS/FP	Various	0	0	-	0	-	190	Oct-00	1200	1390	
Subtotal Management Services:								887		4439	5326	
Project Total Cost:						60577		315253		988612	1364442	

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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604854A Artillery Systems - Engineering Development				PROJECT D2KT		
<i>COST (In Thousands)</i>	FY1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
D2KT Crusader Operational Test	0	100	396	1145	200	3330	5404	20111	10000	40686
<p>A. <u>Mission Description and Justification:</u> This project support Crusader Operational Testing which will be conducted to answer issues relating to system effectiveness and suitability. Testing will be performed using simulations and physical testing to project Crusader capabilities from section level (individual howitzer or resupply vehicles) to platoon, battery and battalion levels to determine Crusader mission effectiveness and force structure suitability.</p> <p>FY 1998 Accomplishments: Project not funded in FY 1998.</p> <p>FY 1999 Planned Program:</p> <ul style="list-style-type: none"> • 98 Planning and preparation for Crusader Early User Experiment. • 2 Small Business Innovative Research/Small Business Technology Transfer Program <p>Total 100</p> <p>FY 2000 Planned Program:</p> <ul style="list-style-type: none"> • 396 Conduct Crusader Early User Experiment. <p>Total 396</p> <p>FY 2001 Planned Program:</p> <ul style="list-style-type: none"> • 1145 Conduct Crusader Early User Test. <p>Total 1145</p>										
B. <u>Other Program Funding Summary</u>										
	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To Comp</u>	<u>Total Cost</u>
RDTE, BA4, Army, PE 0603854, D505	298012	311257	282937	120457					0	1241461
RDTE, BA5, Army, PE 0604854, D503			60577	315253	411143	258066	295415	23988	0	1364442
Procurement, WCTV, Army, G83500					41607	95543	382601	628003	9437130	10584884
Procurement, WCTV, Army, G83600					32967	80240	314331	499726	7633500	8560764
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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604854A Artillery Systems - Engineering Development			PROJECT D2KT	
C. Acquisition Strategy: Not applicable								
D. Schedule Profile								
	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
Planning and preparation for Crusader Early User Experiment		4 th Qtr						
Conduct Crusader Early User Experiment			4 th Qtr					
Conduct Crusader Early User Testing				4 th Qtr				
Conduct Crusader RAM Testing					4 th Qtr			
Conduct Crusader Limited User Testing						4 th Qtr		
Conduct Crusader LFT&E							4 th Qtr	
Conduct Crusader IOT&E								4 th Qtr

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ARMY RDT&E COST ANALYSIS (R-3)										DATE February 1999		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604854A Artillery Systems - Engineering Development					PROJECT D2KT		
I. Product Development: Not applicable												
II. Support Costs: Not applicable												
III. Test and Evaluation												
Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
a. Operational Testing	PO	TECOM (YPG, AZ; CSTA, APG, MD); Ft. Sill, OK; OPTEC, VA	0	98	Oct-98	396	Oct-99	1145	Oct-00	39045	40684	
Subtotal Test and Evaluation:			98		396		1145		39045	40684		
IV. Management Services												
Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
a. SBIR/STTR			2							2		
Subtotal Management Services:			2							2		
Project Total Cost:			100		396		1145		39045	40686		

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