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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)	DATE February 2000
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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604760A Distributive Interactive Simulations - Engineering Development
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<i>COST (In Thousands)</i>	FY1999 Actual	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	2634	7605	20689	30858	31609	28799	25457	Continuing	Continuing
DC73 Synthetic Theater of War	0	774	1116	2190	1245	0	0	0	19658
DC74 Developmental Simulation Technology	0	0	3343	7350	6023	4827	4622	Continuing	Continuing
DC77 Interactive Simulation	1342	4266	1050	3595	3525	2629	2687	Continuing	Continuing
DC78 Computer Generated Forces	1292	2565	15180	17723	20816	21343	18148	Continuing	Continuing

A. Mission Description and Budget Item Justification: Distributed Interactive Simulation (DIS) is a synthetic environment within which humans may interact through a systematic connection of different subcomponent simulations, simulators and/or instrumented live task forces. These components may be located together or distributed at geographically dispersed locations, yet can interoperate using various simulation hardware linked through use of standard communication architecture. This program element supports the Army's Advanced Simulation Program to enable operational readiness and support the development of concepts and systems for Force XXI and the Army After Next through the application of new simulation technology and techniques. This engineering development and application of simulation technology will provide the tools to electronically link all subcomponents together in a manner that is transparent to the user. The synthetic environment is used to verify the scenarios, tactics/techniques and procedures, train testers on new hardware/software and conduct trial test runs before costly live field tests. The tools developed are available for reuse by developers and users of simulations throughout the Army. Project DC73, Synthetic Theater of War, STOW-A, provides innovative applications of legacy systems (live, virtual and constructive, C4I Surveillance and Reconnaissance) to meet the urgent requirements of the domains (e.g. training shortfalls) in preparation of next generation systems. STOW-A provides direct support to the Training, Exercises and Military Operations (TEMO) domain and the Advanced Concepts Requirements (ACR) domain. TEMO support derives from the demonstrated, low cost training capabilities that are provided by the toolkit. ACR support derives from the demonstrated capability of the kit to support battle lab and AWE exercises and experiments and the development of Tactics, Techniques and Procedures to support digital operations. Project DC74, Developmental Simulation Technology, provides simulator equipment upgrades, network upgrades, software upgrades, and resolves interoperability issues in support of the Army's Core DIS Facilities (CDFs) at Fort Knox, Fort Benning, Fort Rucker and the Operational Support Facility in Orlando, Florida. Project DC77, Interactive Simulation, focuses on engineering development of advanced simulation technology and tools to provide a reusable synthetic environment. The project also develops and enhances reconfigurable simulators which are used as Advanced Concepts Research Tools (ACRT) that will allow the battlelabs to accomplish their mission in support of the ACR, Research, Development and Acquisition (RDA), and TEMO domains. Project DC78 develops and upgrades computer generated forces software systems that support experimentation, concept evaluation, materiel development and training. The One Semi-Automated Forces (OneSAF) program will combine and

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improve the functionality and behaviors of several current semi-automated forces to provide a single SAF for Army use in simulations. The Advanced Simulation Program will have benefit across the Army and DOD by providing standards for interoperability and software.

B. Program Change Summary	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Previous President's Budget (<u>FY 2000/2001 PB</u>)	2727	7657	20646
Appropriated Value	2766	7657	
Adjustments to Appropriated Value			
a. Congressional General Reductions	-39		
b. SBIR / STTR	-54		
c. Omnibus or Other Above Threshold Reductions		-28	
d. Below Threshold Reprogramming	-29		
e. Rescissions	-10	-24	
Adjustments to Budget Years Since <u>FY 2000/2001 PB</u>			+43
Current Budget Submit (<u>FY 2001 PB</u>)	2634	7605	20689

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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604760A Distributive Interactive Simulations - Engineering Development	PROJECT DC73
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COST (In Thousands)	FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
DC73 Synthetic Theater of War	0	774	1116	2190	1245	0	0	0	19658

A. Mission Description and Justification: This project supports engineering development and integration of the Synthetic Theater of War (STOW). Development focuses on leveraging existing and emerging technology in a manner that produces substantial and continual improvements in combat readiness through the use of full spectrum, high fidelity, distributed simulation capability to support a large scale user based exercise/experiment for JOINT VENTURE training and analytical needs.

FY 1999 Accomplishments: Project not funded in FY 1999

FY 2000 Planned Program:

- 755 Continue to develop the software required to link entity-based simulations and simulators to live tactical command and control systems in support of periodic releases of Army Battle Command Systems (ABCS) software. Support Joint Venture and Joint Contingency Force Simulation - Simulation Integration.
 - 19 Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR)
- Total 774

FY 2001 Planned Program:

- 1116 Continue to develop the software required to link entity-based simulations and simulators to live tactical command and control systems in support of periodic releases of ABCS software. Support Joint Venture and Division Capstone Exercise Simulation - Simulation Integration.
- Total 1116

B. <u>Other Program Funding Summary</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</u>	<u>Total</u>
OPA3, KA6000, Reconfigurable Simulators	747	2398	2330	362	122	121	121	<u>Compl</u> Cont	<u>Cost</u> Cont

C. Acquisition Strategy: Development and procurement through delivery orders to competitively selected contractors based on performance specifications.

D. <u>Schedule Profile</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>
Award Engr & Integration Contract		2Q	1Q	1Q	1Q		

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ARMY RDT&E COST ANALYSIS (R-3)										DATE February 2000		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604760A Distributive Interactive Simulations - Engineering Development						PROJECT DC73		
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. STOW-A Development	C/CPAF	Lockheed-Martin, Orlando, FL	3104							0	3104	3104
b. STOW-A Requirements Analysis	C/CPIF	Cubic Applications, Ft Leavenworth, KS	1290							0	1290	1290
c. STOW-A Development	C/CPIF	Orlando, FL	4710							0	4710	4710
d. CCTT TSIU Interface	C/CPIF	Coleman Research, Huntsville, AL	1796							0	1796	1796
e. STOW-A Software Devt	TBD	TBD				576	Mar 00	604	Dec 00	2451	3631	3631
Subtotal Product Dev:			10900			576		604		2451	14531	14531
Remark: Each award is Delivery Order (DO) against CPIF.												
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. Miscellaneous	Various	Various	1252			72	Nov 99	293	Nov 00	569	2186	2248
Subtotal Support Costs:			1252			72		293		569	2186	2248
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. Miscellaneous	Various	Various	789	0		0		0		0	789	789
Subtotal Test and Evaluation:			789	0		0		0		0	789	789
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. Service Support	Various	Multiple	1295			107	Nov 99	219	Nov 00	415	2036	2071
b. SBIR/STTR						19					19	
Subtotal Mgt Services:			1295			126		219		415	2055	2071
Project Total Cost:			14236			774		1116		3435	19561	19639

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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							DATE February 2000			
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604760A Distributive Interactive Simulations - Engineering Development				PROJECT DC74		
<i>COST (In Thousands)</i>	FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost	
DC74 Developmental Simulation Technology	0	0	3343	7350	6023	4827	4622	Continuing	Continuing	
<p>A. <u>Mission Description and Justification:</u> Project DC74 - Developmental Simulation Technology: This project supports the Core Distributed Interactive Simulation (DIS) Facilities (CDF) at Fort Knox, KY, Fort Rucker, AL, Fort Benning, GA and the Operational Support Facility in Orlando, FL, which provide a virtual combined arms battlefield with the warfighter-in-the-loop to evaluate weapon system concepts, tactics, doctrine and test plans.</p> <p>FY 1999 Accomplishments: Project not funded in FY 1999</p> <p>FY 2000 Planned Program: Project not funded in FY 2000</p> <p>FY 2001 Planned Program:</p> <ul style="list-style-type: none"> • 3343 Award contract to integrate additional ground and aviation full fidelity Advanced Concepts Research Tools (ACRT). Award contract to develop and acquire C4I variants of the ACRT. <p>Total 3343</p>										
B. <u>Other Program Funding Summary</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 <u>Compl</u>	Total <u>Cost</u>	
OPA3, KA6000, Reconfigurable Simulators	747	2398	2330	362	122	121	121	Cont	Cont	
C. <u>Acquisition Strategy:</u> Competitive development leading to competitive procurement against performance specifications										
D. <u>Schedule Profile</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>			
Advanced Distributed Simulation Technology (ADSTII) Delivery Order Contract Award			1Q	1Q	1Q	1Q	1Q			
<p>Project DC74 Page 5 of 13 Pages Exhibit R-2A (PE 0604760A)</p>										

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ARMY RDT&E COST ANALYSIS (R-3)										DATE February 2000		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604760A Distributive Interactive Simulations - Engineering Development					PROJECT DC74		
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. ACRT Modify Integrate Existing Simulators	C/CPAF	TBS						3343	Jan 02	Cont	3343	Cont
Subtotal Product Development:								3343			3343	Cont
Remark: Each award is Delivery Order against CPAF												
II. Support Costs: Not applicable												
III. Test and Evaluation: Not applicable												
IV. Management Services: Not applicable.												
Project Total Cost:				0		0		3343		Cont	Cont	Cont
Project DC74				Page 6 of 13 Pages				Exhibit R-3 (PE 0604760A)				

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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							DATE February 2000			
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604760A Distributive Interactive Simulations - Engineering Development				PROJECT DC77		
COST (<i>In Thousands</i>)	FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost	
DC77 Interactive Simulation	1342	4266	1050	3595	3525	2629	2687	Continuing	Continuing	
<p>A. <u>Mission Description and Justification:</u> Project DC77 - Interactive Simulation: This project focuses on engineering development of techniques and Distributed Simulation technology [e.g. Higher Level Architecture (HLA)] of wide area simulation networking in support of modeling and simulation, doctrinal development, training, and operations, utilizing live, virtual and constructive simulations. Development also supports related simulations and simulator efforts, including the Advanced Concepts Research Tools (ACRT).</p> <p>FY 1999 Accomplishments:</p> <ul style="list-style-type: none"> • 860 Provided systems engineering and developed High Level Architecture environment and standards to support interoperability within the training domain. • 482 Developed the software required to link entity-based simulations and simulators to live tactical command and control systems in support of periodic releases of Army Battle Command Systems (ABCS) software in support of STOW-A. <p>Total 1342</p> <p>FY 2000 Planned Program:</p> <ul style="list-style-type: none"> • 3105 Award contract modification to integrate additional ground and aviation full fidelity Advanced Concepts Research Tools (ACRT) at the Core DIS facilities. Award contract modification to develop and acquire C4I variants of the ACRT. • 391 Development and management of the Advanced Simulation Program to achieve Army-wide modeling and simulation infrastructure objectives. • 672 Continue development of High Level Architecture technology and tools to support Simulation Object Modeling, Federation Object Model development and federation exercise management, data collection and after action review, and HLA compliance tools. • 98 Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR) <p>Total 4266</p> <p>FY 2001 Planned Program:</p> <ul style="list-style-type: none"> • 400 Continue development and management of the Advanced Simulation Program to achieve Army-wide modeling and simulation infrastructure objectives. • 650 Continue development of High Level Architecture technology and tools to support Simulation Object Modeling, Federation Object Model development and federation exercise management, data collection and after action review, and HLA compliance tools. <p>Total 1050</p>										
Project DC77			Page 7 of 13 Pages				Exhibit R-2A (PE 0604760A)			

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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604760A Distributive Interactive Simulations - Engineering Development	PROJECT DC77
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B. <u>Other Program Funding Summary</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 <u>Compl</u>	Total <u>Cost</u>
OPA3, KA6000, Reconfigurable Simulators	747	2398	2330	362	122	121	121	Cont	Cont

C. Acquisition Strategy: Competitive development leading to competitive procurement against performance specifications.

D <u>Schedule Profile</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>
Advanced Distributed Simulation Technology II Delivery Order Contract Awarded	1Q*	2Q	1Q	1Q	1Q	1Q	1Q

Milestone Completed*

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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604760A Distributive Interactive Simulations - Engineering Development						PROJECT DC77		
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. Battlelab Reconfigurable Simulator development	C/CPIF	Hughes Training Inc., Orlando, FL	4144	0	0	0	0	0	0	0	4144	4144
b. ACRT Development and Integration	C/CPAF	NAWC-TSD Orlando, FL	2661	0	0	3105	Feb 00			Cont	5766	Cont
c. DISECT Development	C/CPIF	TASC, Orlando, FL	464	0		0		0		Cont	464	Cont
d. HLA Tool Development	Various	Various	3228	731	Nov 98	524	Nov 99	473	Nov 00	Cont	4956	Cont
e. STOW-A Development	Various	Various		351	Nov 98						351	
Subtotal Product Development:			10497	1082		3629		473			15681	Cont
Remark: Battlelab Reconfigurable Simulator Program replaced by ACRT. Contract awards are Delivery Orders (DO) against CPIF.												
II. Support Costs: Not Applicable. Each award is DO of CPIF.												
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. ModSAF V&V	Various	Various	285							0	285	285
Subtotal Test and Evaluation:			285							0	285	285
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. HLA Tools program mgt	Various	Various	271	129	Nov 98	148	Nov 99	177	Nov 00	Cont	725	Cont
b. ASP PM Management	Various	Various		0		391	Oct 99	400	Oct 00	Cont	791	Cont
c. STOW-A PM Mgt	Gov't In-House	STRICOM, Orlando, FL		131							131	
d. SBIR/STTR						98					98	
Subtotal Management Services:			271	260		637		577			1745	Cont
Project Total Cost:			11053	1342		4266		1050			17711	Cont

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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604760A Distributive Interactive Simulations - Engineering Development				PROJECT DC78		
COST (In Thousands)	FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost	
DC78 Computer Generated Forces	1292	2565	15180	17723	20816	21343	18148	Continuing	Continuing	
<p>A. Mission Description and Justification: This project provides for the development of software systems to realistically represent activities of units and forces in simulation. This representation is used to support concept evaluation, experimentation, materiel acquisition and training communities. This project funds improvements, new functionality, enhancements and re-architecture of Modular Semi Automated Forces (ModSAF). Other initiatives include the systems engineering and design for improvements to the architecture and interoperability of Army SAFs, and the evolution to an Army universal computer generated forces system, OneSAF. OneSAF is a composable next generation SAF that will represent a full range of operations, systems and control processes for support of training research, development and acquisition simulation applications including human-in-the-loop.</p> <p>FY 1999 Accomplishments:</p> <ul style="list-style-type: none"> • 482 Continued the development of the OneSAF architecture to provide composability, HLA compliance and repeatability • 253 Continued OneSAF requirements definition. • 437 Completed development of One SAF Test Bed (OTB) Build 1.0, integrated functionality of ModSAF V5.0, and initiated development of OTB Builds 2.0 and 3.0/4.0. • 120 Verified and validated newly integrated software. <p>Total 1292</p> <p>FY 2000 Planned Program:</p> <ul style="list-style-type: none"> • 626 Complete development of OTB Builds 2.0 and 3.0/4.0 and initiate development of OTB Build 5.0 • 499 Complete development and issue OneSAF Version 1.0 (Alpha) for initial use, replacing ModSAF, and initiate development of Version 2.0. • 1373 Prepare Statement of Work (SOW) for system development contract. • 67 Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR) <p>Total 2565</p> <p>FY 2001 Planned Program:</p> <ul style="list-style-type: none"> • 4907 Complete development of OTB Build 5.0 and continue development of Version 2.0. • 9488 Develop functionality to represent composable behaviors, opposing forces and provide terrain, editing and data collection tools and OneSAF infrastructure enhancements. • 785 Verification and validation of newly integrated software. 										
Project DC78			Page 10 of 13 Pages				Exhibit R-2A (PE 0604760A)			

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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604760A Distributive Interactive Simulations - Engineering Development	PROJECT DC78
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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. ModSAF enhancement	C/CPAF	Lockheed-Martin Inc., Orlando, FL	500			0		0		Cont	500	Cont
b. OneSAF Systems architecture/development	C/CPAF	Lockheed-Martin Inc., Orlando, FL	2685	366	Nov 98	1125	Nov 99	3587	Nov 00	Cont	7763	Cont
c. OneSAF Systems architecture/development	C/CPFF	MITRE FFRDC	0	412	Nov 98	206	Nov 99	212	Nov 00		830	
d. OneSAF Systems architecture/development	Various	Various	2439	110	Nov 98	193	Dec 99	633	Dec 00	Cont	3375	Cont
e. OneSAF System Dev	C/CPAF	TBD						9103	Dec 00	Cont	9103	Cont
Subtotal Product Dev:			5624	888		1524		13535			21571	Cont

Remark: New Competitive Contract for OneSAF Development. Each award is DO against CPAF.

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. Systems analysis	Various	Various	405	164	Dec 98	185	Dec 99	460	Dec 00	Cont	1214	Cont
Subtotal Support Costs:			405	164		185		460			1214	Cont

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. Verify & Validate	Various	Various	343	120	Nov 98	235	Nov 99	785	Nov 00	Cont	1483	Cont
Subtotal Test and Evaluation:			343	120		235		785			1483	Cont

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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604760A Distributive Interactive Simulations - Engineering Development	PROJECT DC78
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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. Program management	Various	Various	375	120	Nov 98	554	Nov 99	400	Nov 00	Cont	1449	Cont
b. SBIR/STTR						67					67	
Subtotal Mgmt Services:			375	120		621		400			1516	Cont
Project Total Cost:			6747	1292		2565		15180			25784	Cont