

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: February 2005	
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-5					R-1 ITEM NOMENCLATURE 0604703N, Manpower, Personnel, Training, Simulation, & Human Factors			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	1.857	2.958	3.097	4.031	4.027	4.051	4.131	4.205
1822/Manpower, Personnel, Training, Sim, and HF	1.014	1.957	1.992	2.864	2.847	2.850	2.908	2.958
3089/Science and Technology Training Transition	0.843	1.001	1.105	1.167	1.180	1.201	1.223	1.247

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:
This non-acquisition category program provides funds for continued R&D for broader application of advanced training technologies and the science of learning to transition successful 6.3 research proof of concept demonstrations and rapid prototyping of COTS/GOTS technologies into operation use.

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2005	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604703N, Manpower, Personnel, Training, Simulation, and Human Factors				PROJECT NUMBER AND NAME 1822/Manpower, Personnel, Training, Sim, and HF			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	1.014	1.957	1.992	2.864	2.847	2.850	2.908	2.958
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: L1822/Manpower, Personnel, Training, Sim, and Human Factors This non-acquisition category program provides funds for continued (but less risky) R&D for broader application of advanced technologies to transition successful 6.3 research proof-of-concept demonstrations into operational use. Development of prototype systems to support and/or improve operational requirements of manpower and personnel sponsors is the primary goal of this Engineering Development Program. The 6.5 R&D Program features the use of a broad range of technologies from cognitive science and ability testing techniques, mathematical modeling and optimization, statistical and econometric forecasting, intelligent systems, data visualization, data mining, simulation, decision support systems, and new database and communications configuration. (U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under RDT&E operational systems development because it encompasses engineering and development of new end-items prior to production approval decision. (U) PROGRAM ACCOMPLISHMENTS AND PLANS: 1. (U) FY 2004 ACCOMPLISHMENTS: • (U) (\$80K) Completed STEAR (Skill Assessment, Training, Evaluation, and Assistance for Recruiters) project. Provided guidelines to sponsor to implement final version of Recruiter Assessment Battery (RAB). • (U) (\$120K) Completed the Strength Planning and Budget System Integration (STP/BSI) project. Completed modeling and computer based training for enlisted strength planners. • (U) (\$90K) Continued prototype development of URL Officer Career Path Simulation model. Implemented Data Collection Plan for model use. Extended application of the model to Aviator Community. Developed reporting requirements and analyzed data for full implementation. Mapped Submarine and Fleet Support Officer Career Milestones in preparation of extending model application to these communities in FY 2005. • (U) (\$95K) Completed 6.5 R&D transitioning to operational use of Comprehensive Officer Force Management Environment models/system (CHROME). Compared Strength Planner and Officer Community Manager forecasts and actual data. Developed the capability within the model to: allocate officer accessions; plan officer promotions; predict out-year officer strength losses; account for external variables that influence changes to the officer force; incorporate pay-grade changes that occur with actual losses; and, added graphical output. • (U) (\$75K) Completed transitioning of the Models of Navy Compensation and Personnel Behavior (MODCOMP). • (U) (\$94K) Began transition of Chief of Naval Personnel (CNP) Quick Polling System. • (U) (\$200K) Began 6.5 R&D transitioning to operational use of Rating Identification Engine (RIDE). Demonstrated Skill-Job Matching Algorithm known as RIDE; a broad spectrum assignment algorithm that optimally assigns individuals to jobs, increasing job options for recruits while reducing training attrition, increasing first-pass A-school success, and maximizing school and job performance. • (U) (\$100K) Began transition of the Jobs & Occupational Interests in the Navy (JOIN) / FLEET JOIN System. JOIN will be a web-enabled tool as a means to assess and utilize occupational interests to improve the quality of classification during first term of enlistment, as well as a tool to be used during FLEET rating conversions. • (U) (\$100K) Continued prototype development of Enlisted Manpower and Personnel Integrated Planning System (EMPIPS). • (U) (\$60K) Small Business Innovative Research (SBIR) and other withhold.								

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<p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>4. (U) FY 2007 PLAN:</p> <ul style="list-style-type: none"> • (U) (\$143K) Complete prototype development of the Training Continuum and Readiness Modeling (TCARM). • (U) (\$50K) Complete prototype development of RIDE. • (U) (\$425K) Continue prototype development of Non-Cognitive Measures. • (U) (\$425K) Continue prototype development of Attrition Reduction Technologies. • (U) (\$475K) Begin prototype development of Career Case Manager Technologies. • (U) (\$475K) Begin prototype development of Distribution Incentives System (DIS). • (U) (\$421K) Complete prototype development of EMPIPS. • (U) (\$450K) Continue prototype development of Enterprise Management System. <p>5. (U) FY 2008 PLAN:</p> <ul style="list-style-type: none"> • (U) (\$350K) Complete prototype development of Non-Cognitive Measures. • (U) (\$350K) Begin prototype development of Cultures and Values Selection • (U) (\$100K) Complete prototype development of Attrition Reduction Technologies. • (U) (\$300K) Continue prototype development of Career Case Manager Technologies. • (U) (\$322K) Continue prototype development of Distribution Incentives System (DIS). • (U) (\$300K) Complete prototype development of Enterprise Management System. • (U) (\$400K) Begin Transition of Integrated Whole Person Assessment System • (U) (\$375K) Begin Transition of Integrated Career Management System • (U) (\$350K) Begin Transition of Integrated P-SMART System 		

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B. PROGRAM CHANGE SUMMARY:					
Funding:		FY 2004	FY 2005	FY 2006	FY 2007
FY05 President's Budget		1.058	1.993	2.012	2.887
FY06 President's Budget		1.014	1.957	1.992	2.864
Total Adjustments		-0.044	-0.036	-0.020	-0.023
Summary of Adjustments					
Section 8094: Management		-0.003			
Sec 8126: Efficiencies		-0.009			
Section 8122: Assumed Management			-0.006		
Section 8131 Non-statutory Funding			-0.012		
FY05 Sec. 8028 FFRDC Reduction			-0.016		
FY04 SBIR (9-Apr-04)		-0.032			
Program Adjustments		0.000	-0.002	-0.020	-0.023
Subtotal		-0.044	-0.036	-0.020	-0.023
Schedule:	Not Applicable				
Technical:	Not Applicable				
C. (U) OTHER PROGRAM FUNDING SUMMARY: None					
(U) RELATED RDT&E:					
(U) PE 0601152N, In-House Independent Lab Research					
(U) PE 0601153N, Defense Research Sciences					
(U) PE 0602233N, Mission Support Technology					
(U) PE 0602722A, Personnel and Training					
(U) PE 0603707N, Manpower, Personnel and Training Advanced Technology Development					
(U) PE 0603731A, Manpower and Personnel					
(U) PE 0603704F, Manpower and Personnel Systems Technology					
(U) SCHEDULE PROFILE: Not applicable.					

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5		PROGRAM ELEMENT NUMBER AND NAME 0604703N, Manpower, Personnel, Training, Simulation, & Human Factors			PROJECT NUMBER AND NAME 3089/Science and Technology Training Transition			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	0.843	1.001	1.105	1.167	1.180	1.201	1.223	1.247
RDT&E Articles Qty	1	3	3	3	3	3	3	3
<p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>U) Every major study on Navy Training (e.g. Zero-based Review (ZBT), Navy Research Advisory Committee (NRAC), Naval Studies Board, Executive Review of Navy Training (ERNT), Strategic Studies Group, Revolution in Training (SSG RIT)) conducted over the past decade has indicated the need for a Development, Test and Evaluation (D, T&E) program for emerging training technologies. This non-acquisition category program provides funds for continued R&D for broader application of advanced training technologies and the science of learning to transition successful 6.3 research proof of concept demonstrations and rapid prototyping of COTS/GOTS technologies into operational use. Development of prototype systems to support and/or improve operational requirements of training sponsors is the primary goal of this Engineering Development Program. Demonstrations of the 6.3 R&D training technologies have significantly reduced knowledge acquisition times and cost to the Navy. For example, intelligent tutoring has been shown to significantly reduce time (up to 30%) to acquire complex knowledge and skills, and accelerate knowledge acquisition (by 1-2 standard deviation) over traditional training methods. Team dimensional training has demonstrated up to a 60% improvement in tactical teamwork skills. 6.3 programs like Interactive Multisensor Analysis Training (IMAT), and visualization technologies have decreased time to qualify and have been documented and endorsed as a fleet requirement. Reduced manning initiatives require training solutions that will accomplish the training in less time and with fewer instructors. Current acquisition initiatives are unable to incorporate many of the technology developments that would reduce training time and trainers due to the lack of funds to support prototype development on specific platforms or at schoolhouses. This 6.3 program features the use of a broad range of maturing technologies from the science of learning and cognitive science, learning object design and development, learning delivery technologies, and human performance technologies and also push the envelope on new technologies. Further Engineering Development and Test/Evaluation is needed in support of the Capable Manpower Future Naval Capability investment strategy to prepare technologies for Fleet/School implementation.</p>								

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5	PROGRAM ELEMENT NUMBER AND NAME PE0604703N, Manpower, Personnel, Training, Simulation, and Human Factors	PROJECT NUMBER AND NAME 3089/Science and Technology Training Transition																	
B. Accomplishments/Planned Program																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Scenario based Performance Assessment & Diagnosis</td> <td style="width: 10%;">FY 04</td> <td style="width: 10%;">FY 05</td> <td style="width: 10%;">FY 06</td> <td style="width: 10%;">FY 07</td> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td>0.400</td> <td>0.420</td> <td>0.430</td> <td>0.275</td> </tr> <tr> <td>RDT&E Articles Quantity</td> <td></td> <td>1</td> <td>1</td> <td>1</td> </tr> </table>					Scenario based Performance Assessment & Diagnosis	FY 04	FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost	0.400	0.420	0.430	0.275	RDT&E Articles Quantity		1	1	1
Scenario based Performance Assessment & Diagnosis	FY 04	FY 05	FY 06	FY 07															
Accomplishments/Effort/Subtotal Cost	0.400	0.420	0.430	0.275															
RDT&E Articles Quantity		1	1	1															
<p>Objective: Develop prototype tools and technologies for real-time performance assessment and scenario design. Prototype capability would support the Fleet in collecting various types of human performance metrics to be used in training individuals and teams. The measurement of human performance is a cornerstone capability to achieve a revolution in training.</p> <p>Approach/Products: FY04: Develop automated performance measurement capability for Battlestations at NETC Great Lakes. FY05: Conduct prototype training study with existing simulation-based training/Demonstrate diagnosis assessment based on prototype and recommend improvements. FY06/07: Determine extensions required for simulation to improve diagnosis capability. Demonstrate prototype simulation with expanded data capability for diagnosis and assessment. Deliverables include prototypes, reports and systems requirements specifications.</p>																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">COTS/GOTS Simulation Engines</td> <td style="width: 10%;">FY 04</td> <td style="width: 10%;">FY 05</td> <td style="width: 10%;">FY 06</td> <td style="width: 10%;">FY 07</td> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td></td> <td>0.104</td> <td>0.275</td> <td>0.500</td> </tr> <tr> <td>RDT&E Articles Quantity</td> <td></td> <td>1</td> <td>1</td> <td>1</td> </tr> </table>					COTS/GOTS Simulation Engines	FY 04	FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost		0.104	0.275	0.500	RDT&E Articles Quantity		1	1	1
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RDT&E Articles Quantity		1	1	1															
<p>Objective: Develop a prototype "open source" COTS/GOTS simulation architecture to improved collective/team training, mission planning and mission rehearsal. Approach/Products: The program will leverage work done on micro-simulator systems, virtual technologies and environments with gaming engines, and interoperability using the high level architecture (HLA) to develop training simulations which facilitate reusability of components and models, conform to common open data standards and protocols, and drastically drive down the cost of application development by commoditizing the architecture, thus focusing resources on content rather than infrastructure. With reconfigurable "microsimulator" devices costing less than 5% of a medium fidelity device, many individual and team tasks can be trained earlier, more frequently, and with less skill perishability. Deliverables include prototypes, reports and systems requirements specifications.</p>																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">E- learning Tools for Diagnosis and Assessment</td> <td style="width: 10%;">FY 04</td> <td style="width: 10%;">FY 05</td> <td style="width: 10%;">FY 06</td> <td style="width: 10%;">FY 07</td> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td>0.443</td> <td>0.477</td> <td>0.400</td> <td>0.392</td> </tr> <tr> <td>RDT&E Articles Quantity</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> </tr> </table>					E- learning Tools for Diagnosis and Assessment	FY 04	FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost	0.443	0.477	0.400	0.392	RDT&E Articles Quantity	1	1	1	1
E- learning Tools for Diagnosis and Assessment	FY 04	FY 05	FY 06	FY 07															
Accomplishments/Effort/Subtotal Cost	0.443	0.477	0.400	0.392															
RDT&E Articles Quantity	1	1	1	1															
<p>Objective: Develop prototype E-learning tools for diagnosis and assessment with the required level of granularity of performance assessment to effectively diagnose root causes of performance. A capability is required to enable effective diagnosis and implement deficiency based training and adaptive instruction in the Integrated Learning Environment (ILE).</p> <p>Approach/Products: FY04: Analyze COTS Capabilities for performance assessment the Integrated Learning Environment (ILE). FY05: Demonstrate a prototype set of performance assessment tools for deficiency based training using an available set of ILE objects for a particular rating. FY06/07: Perform validation studies with prototype. Demonstrate/validate potential ROI of deficiency based training within ILE. Deliverables include prototypes, reports and systems requirements specifications.</p>																			

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<p>C. PROGRAM CHANGE SUMMARY:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 10%; text-align: right;">FY 04</th> <th style="width: 10%; text-align: right;">FY 05</th> <th style="width: 10%; text-align: right;">FY 06</th> <th style="width: 10%; text-align: right;">FY 07</th> </tr> </thead> <tbody> <tr> <td>Funding:</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Previous President's Budget:</td> <td style="text-align: right;">0.873</td> <td style="text-align: right;">1.012</td> <td style="text-align: right;">1.097</td> <td style="text-align: right;">1.159</td> </tr> <tr> <td>Current BES/President's Budget</td> <td style="text-align: right;">0.843</td> <td style="text-align: right;">1.001</td> <td style="text-align: right;">1.105</td> <td style="text-align: right;">1.167</td> </tr> <tr> <td>Total Adjustments</td> <td style="text-align: right; border-top: 1px solid black;">-0.030</td> <td style="text-align: right; border-top: 1px solid black;">-0.011</td> <td style="text-align: right; border-top: 1px solid black;">0.008</td> <td style="text-align: right; border-top: 1px solid black;">0.008</td> </tr> <tr> <td colspan="5" style="padding-top: 10px;">Summary of Adjustments</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">-0.010</td> <td></td> <td></td> </tr> <tr> <td>Congressional undistributed reductions</td> <td></td> <td style="text-align: right;">-0.001</td> <td style="text-align: right;">-0.003</td> <td style="text-align: right;">-0.007</td> </tr> <tr> <td>Program Adjustments</td> <td></td> <td></td> <td style="text-align: right;">0.011</td> <td style="text-align: right;">0.015</td> </tr> <tr> <td>Economic Assumptions</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Reprogrammings</td> <td style="text-align: right;">-0.030</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Subtotal</td> <td style="text-align: right; border-top: 1px solid black;">-0.030</td> <td style="text-align: right; border-top: 1px solid black;">-0.011</td> <td style="text-align: right; border-top: 1px solid black;">0.008</td> <td style="text-align: right; border-top: 1px solid black;">0.008</td> </tr> </tbody> </table> <p style="margin-top: 20px;">Schedule: Not Applicable.</p> <p style="margin-top: 20px;">Technical: Not Applicable.</p>						FY 04	FY 05	FY 06	FY 07	Funding:					Previous President's Budget:	0.873	1.012	1.097	1.159	Current BES/President's Budget	0.843	1.001	1.105	1.167	Total Adjustments	-0.030	-0.011	0.008	0.008	Summary of Adjustments							-0.010			Congressional undistributed reductions		-0.001	-0.003	-0.007	Program Adjustments			0.011	0.015	Economic Assumptions					Reprogrammings	-0.030				Subtotal	-0.030	-0.011	0.008	0.008
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RDT&E, N / BA-5		PE0604703N, Manpower, Personnel, Training, Simulation, and Human Factors		3089/Science and Technology Training Transition																									
<p>D. OTHER PROGRAM FUNDING SUMMARY:</p> <table border="1"> <thead> <tr> <th>Line Item No. & Name</th> <th>FY 2004</th> <th>FY 2005</th> <th>FY 2006</th> <th>FY 2007</th> <th>FY 2008</th> <th>FY 2009</th> <th>FY 2010</th> <th>FY 2011</th> <th>To Complete</th> <th>Total Cost</th> </tr> </thead> <tbody> <tr> <td colspan="11">Not Applicable</td> </tr> </tbody> </table> <p>E. ACQUISITION STRATEGY:</p> <p>(U) Acquisition strategy will rely on extensive market surveillance and market research and include a combination of competitive commercial and non-developmental item procurements with competitive integration and support contracts. Most hardware/software system contracts will be firm-fixed price. Integration and support contracts will be a combination of firm-fixed price and cost type contracts. Project will use an integrated project team approach to manage the requirements, development, integration, testing and support of fielded prototypes.</p>								Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost	Not Applicable										
Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost																			
Not Applicable																													

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Exhibit R-3 Cost Analysis (page 1)								DATE: February 2005				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-5			PE0604703N, Manpower, Personnel, Training, Simulation, and Human Factors			3089/Science and Technology Training Transition						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development											0.000	
Ancillary Hardware Development											0.000	
Aircraft Integration											0.000	
Ship Integration											0.000	
Ship Suitability											0.000	
Systems Engineering											0.000	
Training Development											0.000	
Licenses											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal Product Development			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												
Development Support	WR	NAWCTSD, Orlando, FL	0.161	0.104	11/04	0.200	11/05	0.324	11/06		0.804	
Development Support	BAA	CHI Systems, Phila, PA						0.275	01/07		0.275	
Development Support	BAA	Pearson Knl An, Bolder, CO		0.330	01/05	0.150	01/06				0.480	
Software Development	WR	NPS, Monterey, CA				0.125	12/05	0.250	12/06		0.375	
Software Development	BAA	Eng & Computer Sim, Orl, FL				0.150	01/06	0.250	01/07		0.400	
Studies & Analyses	BAA	UCLA CRESST, LA, CA		0.509	01/05	0.415	01/06				0.924	
Studies & Analyses	BAA	J. McHugh Construction, IL	0.400								0.400	
Award Fees			0.282								0.282	
Subtotal Support			0.843	0.943		1.040		1.099		0.000	3.970	
Remarks:												

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Exhibit R-3 Cost Analysis (page 2)										DATE: February 2005		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME					
RDT&E, N / BA-5			PE0604703N, Manpower, Personnel, Training, Simulation, and Human Factors				3089/Science and Technology Training Transition					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation											0.000	
Operational Test & Evaluation											0.000	
Live Fire Test & Evaluation											0.000	
Test Assets											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal T&E			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												
Contractor Engineering Support											0.000	
Government Engineering Support											0.000	
Program Management Support	WR	NAVAIR SYSCOM, PAX MD		0.043	11/04	0.050	11/05	0.053	11/06		0.146	
Travel	WR	NAWCTSD, Orlando, FL		0.015	11/04	0.015	11/05	0.015	11/06		0.045	
Transportation											0.000	
SBIR Assessment											0.000	
Subtotal Management			0.000	0.058		0.065		0.068		0.000	0.191	
Remarks:												
Total Cost			0.843	1.001		1.105		1.167		0.000	4.116	
Remarks:												

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EXHIBIT R4, Schedule Profile																						DATE:		February 2005								
APPROPRIATION/BUDGET ACTIVITY										PROGRAM ELEMENT NUMBER AND NAME										PROJECT NUMBER AND NAME												
RDT&E, N / BA-5										PE0604703N, Manpower, Personnel, Training, Simulation, and Human Factors										3089/Science and Technology Training Transition												
Fiscal Year	2004				2005				2006				2007				2008				2009				2010				2011			
	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				
Scenario based Performance Assessment & Diagnosis																																
For BattleStations 21																																
For Individual Training/ ILE																																
Spiral 1- PM																																
Spiral 2- Assessment																																
Spiral 3 - Diagnosis																																
For Fleet Training																																
Spiral 1- PM																																
Spiral 2- Assessment																																
Spiral 3 - Diagnosis																																
COTS/GOTS Simulation Engines																																
For Individual Training/ ILE																																
Spiral 1- Stand alone																																
Spiral 2- Networked/ Interoperable																																
Spiral 3 - Distributed																																
For Fleet Training																																
Spiral 1- Stand alone																																
Spiral 2- Networked/ Interoperable																																
Spiral 3 - Distributed																																
E- learning Tools for Diagnosis and Assessment																																
For Individual Training/ ILE																																
Spiral 1- PM																																
Spiral 2- Assessment																																
Spiral 3 - Diagnosis																																
For Fleet Training																																
Spiral 1- PM																																
Spiral 2- Assessment																																
Spiral 3 - Diagnosis																																
Deliverables																																
Report - Study Results				△				△				△				△				△				△			△					
Prototype Demonstration							△				△				△				△				△			△						
Systems Requirements Specifications (SRS)								△				△				△				△				△			△					

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* Not required for Budget Activities 1, 2, 3, and 6

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CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE: February 2005			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT				PROJECT NUMBER AND NAME				
RDT&E, N / BA-5	PE0604703N, Manpower, Personnel, Training, Simulation, and Human Factors				3089/Science and Technology Training Transition				
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Scenario based Performance Assessment & Diagnosis									
For BattleStations 21	3Q-4Q								
--Analysis/Studies									
--Prototype Development									
--Systems Requirements Specifications (SRS)									
For Individual Training/Integrated Learning Environment (ILE)		1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q				
--Analysis/Studies		1Q-2Q	1Q-2Q	1Q-2Q	1Q-2Q				
--Prototype Development		2Q-3Q	2Q-3Q	2Q-3Q	2Q-3Q				
--Systems Requirements Specifications (SRS)		4Q	4Q	4Q	4Q				
For Fleet Training					1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	
--Analysis/Studies					1Q-2Q	1Q-2Q	1Q-2Q	1Q-2Q	
--Prototype Development					2Q-3Q	2Q-3Q	2Q-3Q	2Q-3Q	
--Systems Requirements Specifications (SRS)					4Q	4Q	4Q	4Q	
COTS/GOTS Simulation Engines									
For Individual Training/Integrated Learning Environment (ILE)			1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q			
--Analysis/Studies			1Q-2Q	1Q-2Q	1Q-2Q	1Q-2Q			
--Prototype Development			2Q-3Q	2Q-3Q	2Q-3Q	2Q-3Q			
--Systems Requirements Specifications (SRS)			4Q	4Q	4Q	4Q			
For Fleet Training						1Q-4Q	1Q-4Q	1Q-4Q	
--Analysis/Studies						1Q-2Q	1Q-2Q	1Q-2Q	
--Prototype Development						2Q-3Q	2Q-3Q	2Q-3Q	
--Systems Requirements Specifications (SRS)						4Q	4Q	4Q	
E- learning Tools for Diagnosis and Assessment									
For Individual Training/Integrated Learning Environment (ILE)	3Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q				
--Analysis/Studies	3Q-4Q	1Q-2Q	1Q-2Q	1Q-2Q	1Q-2Q				
--Prototype Development		2Q-3Q	2Q-3Q	2Q-3Q	2Q-3Q				
--Systems Requirements Specifications (SRS)		4Q	4Q	4Q	4Q				
For Fleet Training					1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	
--Analysis/Studies					1Q-2Q	1Q-2Q	1Q-2Q	1Q-2Q	
--Prototype Development					2Q-3Q	2Q-3Q	2Q-3Q	2Q-3Q	
--Systems Requirements Specifications (SRS)					4Q	4Q	4Q	4Q	

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