

| ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit) | | | | | | | February 2003 | | | | |
|---|---------------------------------|-------------------|---------------------|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|
| BUDGET ACTIVITY 5 - System Development and Demonstration | | | | PE NUMBER AND TITLE 0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT | | | | | | | |
| COST (In Thousands) | | FY 2002 Actual | FY 2003 Estimate | FY 2004 Estimate | FY 2005 Estimate | FY 2006 Estimate | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | Cost to Complete | Total Cost |
| Total Program Element (PE) Cost | | 64279 | 43813 | 16994 | 1155 | 1193 | 1180 | 1226 | 1252 | Continuing | 131092 |
| 361 | INTELLIGENCE SIMULATION SYSTEMS | 4144 | 7152 | 2274 | 1155 | 1193 | 1180 | 1226 | 1252 | Continuing | 19576 |
| 362 | WARFIGHTER SIMULATION | 60135 | 36661 | 14720 | 0 | 0 | 0 | 0 | 0 | 0 | 111516 |
| <p><u>A. Mission Description and Budget Item Justification:</u>This program element funds the development of constructive and wargame simulations used to realistically train commanders and their battlestaffs on today's complex battlefield conditions. Project 361 funds the development of systems to train Army military intelligence analysts. In FY04/05, the funding continues and completes the initial operational capability development and test of the Intelligence Electronic Warfare Tactical Proficiency Trainer (IEWTPT), which will provide Battle Command training by creating a realistic intelligence information environment that is exploited and reported by Military Intelligence (MI) soldiers to battle commanders and staff. Project 362, Warfighters' Simulation (WARSIM) develops the Army's premier wargame simulation for training leaders and battlestaffs at Brigade, Division, Corps, and echelons above Corps. It also developed the Land component for the Joint Simulation System (JSIMS). WARSIM will provide functionality not currently available (digital operations, stability and support operations, information ops), link to unit organizational Command, Control, Communications, Computers and Integration (C4I) equipment, improve exercise generation and after-action reporting, and significantly reduce the number of role players required to support training exercises, thus reducing operational costs.</p> <p>This system supports the Objective path of the Transformation Campaign Plan (TCP). These projects transferred in FY02 from PE 604715A, Projects 241 and 396.</p> | | | | | | | | | | | |

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)**February 2003****BUDGET ACTIVITY****5 - System Development and Demonstration****PE NUMBER AND TITLE****0604742A - CONSTRUCTIVE SIMULATION SYSTEMS
DEVELOPMENT**

| <u>B. Program Change Summary</u> | FY 2002 | FY 2003 | FY 2004 | FY 2005 |
|---|----------------|----------------|----------------|----------------|
| Previous President's Budget (FY 2003) | 65613 | 53294 | 31297 | 10691 |
| Current Budget (FY 2004/2005 PB) | 64279 | 43813 | 16994 | 1155 |
| Total Adjustments | -1334 | -9481 | -14303 | -9536 |
| Congressional program reductions | -9 | -8108 | | |
| Congressional rescissions | -321 | -252 | | |
| Congressional increases | | | | |
| Reprogrammings | 590 | | | |
| SBIR/STTR Transfer | -1594 | -1121 | | |
| Adjustments to Budget Years | | | -14303 | -9536 |

This Program Element was established and the program funding transferred from PE 0604715A, Projects 241 and 396 in FY02.

FY04/05: WARSIM funding after FY04 was realigned to higher Army priority objectives. The FY04 funding continues Army battlestaff training system development to provide effective, Title 10 compliant, training to improve readiness.

| ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit) | | | | | | | February 2003 | | | |
|--|-------------------|---------------------|---------------------|--|---------------------|---------------------|---------------------|---------------------|---------------------|------------|
| BUDGET ACTIVITY 5 - System Development and Demonstration | | | | PE NUMBER AND TITLE 0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT | | | | PROJECT 361 | | |
| COST (In Thousands) | FY 2002 Actual | FY 2003 Estimate | FY 2004 Estimate | FY 2005 Estimate | FY 2006 Estimate | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | Cost to Complete | Total Cost |
| 361 INTELLIGENCE SIMULATION SYSTEMS | 4144 | 7152 | 2274 | 1155 | 1193 | 1180 | 1226 | 1252 | Continuing | 19576 |
| <p><u>A. Mission Description and Budget Item Justification:</u> This project funds the development of systems to realistically train Army military intelligence analysts. The FY04/05 funding continues, completes development and tests the initial operational capability of the Intelligence Electronic Warfare Tactical Proficiency Trainer (IEWTPT). IEWTPT will provide Battle Command training by creating a realistic intelligence information environment that is exploited and reported by Military Intelligence (MI) soldiers to battle commanders and staff.</p> <p>This system supports the Objective transition path of the Transformation Campaign Plan (TCP).</p> | | | | | | | | | | |
| <u>Accomplishments/Planned Program</u> | | | | | | FY 2002 | FY 2003 | FY 2004 | FY 2005 | |
| Continued development of IEWTPT. | | | | | | 3198 | 5943 | 600 | 508 | |
| Continues IEWTPT Program Management support | | | | | | 487 | 667 | 512 | 302 | |
| Continues IEWTPT Test planning and execution. | | | | | | 261 | 318 | 922 | 200 | |
| Continues IEWTPT Systems engineering, documentation, and Security accreditation and certification. IEWTPT Engineering Change Proposals. | | | | | | 198 | 224 | 240 | 145 | |
| Totals | | | | | | 4144 | 7152 | 2274 | 1155 | |

| ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit) | | | | | | | February 2003 | | | |
|--|---|----------------|----------------|--|----------------|----------------|----------------|----------------|-----------------|-------------------|
| BUDGET ACTIVITY 5 - System Development and Demonstration | | | | PE NUMBER AND TITLE 0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT | | | | | PROJECT 361 | |
| | | | | | | | | | | |
| <u>B. Other Program Funding Summary</u> | <u>FY 2002</u> | <u>FY 2003</u> | <u>FY 2004</u> | <u>FY 2005</u> | <u>FY 2006</u> | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> | <u>To Compl</u> | <u>Total Cost</u> |
| | OPA3, Appropriation NA0100, Training Devices, Nonsystem | 118965 | 156434 | 165254 | 220612 | 152338 | 164005 | 178507 | 189803 | Continuing |
| <u>C. Acquisition Strategy:</u> Competitive development based on performance specifications. | | | | | | | | | | |

| ARMY RDT&E COST ANALYSIS(R-3) | | | | | | | | | February 2003 | | | |
|--|------------------------|--|----------------|--------------|---|--------------|--------------------|--------------|--------------------|------------------|------------|--------------------------|
| BUDGET ACTIVITY 5 - System Development and Demonstration | | | | | PE NUMBER AND TITLE 0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT | | | | | PROJECT 361 | | |
| I. Product Development | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2003 Cost | FY 2003 Award Date | FY 2004 Cost | FY 2004 Award Date | FY 2005 Cost | FY 2005 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
| a . IEWTPT System Dev & Demo | CPIF | Gen Dynamics Decision Systems, Orlando, FL | 6983 | 5943 | 1-3Q | 777 | 1-3Q | 652 | 1Q | Continue | 14355 | Continue |
| Subtotal: | | | 6983 | 5943 | | 777 | | 652 | | Continue | 14355 | Continue |
| Remarks: This program transferred from PE 604715A, Project D241 in FY02. | | | | | | | | | | | | |
| II. Support Cost | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2003 Cost | FY 2003 Award Date | FY 2004 Cost | FY 2004 Award Date | FY 2005 Cost | FY 2005 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
| a . IEWTPT Engineering & Technical Support | Multiple | Various | 587 | 580 | 1-4Q | 227 | 1-4Q | 157 | 1-4Q | Continue | 1551 | Continue |
| Subtotal: | | | 587 | 580 | | 227 | | 157 | | Continue | 1551 | Continue |
| | | | | | | | | | | | | |

| ARMY RDT&E COST ANALYSIS(R-3) | | | | | | | | | February 2003 | | | |
|--|------------------------|--------------------------------|----------------|--------------|--|--------------|--------------------|--------------|--------------------|-----------------------|------------|--------------------------|
| BUDGET ACTIVITY 5 - System Development and Demonstration | | | | | PE NUMBER AND TITLE 0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT | | | | | PROJECT 361 | | |
| III. Test and Evaluation | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2003 Cost | FY 2003 Award Date | FY 2004 Cost | FY 2004 Award Date | FY 2005 Cost | FY 2005 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
| a . IEWTPT Development Test | Various | Multiple | 90 | 75 | 1Q | 130 | 1Q | 35 | 1Q | Continue | 330 | Continue |
| b . IEWTPT Operational Test | MIPR | ATEC | 87 | 125 | 2Q | 792 | 3Q | 165 | 2Q | 0 | 1169 | 0 |
| c . Test Engineering Support | MIPR | NAVAIR Orlando (was NAWC-TSD) | 84 | 118 | 1Q | 0 | | 0 | | 0 | 202 | 0 |
| | | | | | | | | | | | | |
| Subtotal: | | | 261 | 318 | | 922 | | 200 | | Continue | 1701 | Continue |
| | | | | | | | | | | | | |
| IV. Management Services | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2003 Cost | FY 2003 Award Date | FY 2004 Cost | FY 2004 Award Date | FY 2005 Cost | FY 2005 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
| a . IEWTPT Program Management | Various | Multiple | 413 | 311 | 1Q | 348 | 1Q | 146 | 1Q | Continue | 1218 | Continue |
| | | | | | | | | | | | | |
| Subtotal: | | | 413 | 311 | | 348 | | 146 | | Continue | 1218 | Continue |
| | | | | | | | | | | | | |
| Project Total Cost: | | | 8244 | 7152 | | 2274 | | 1155 | | Continue | 18825 | Continue |
| | | | | | | | | | | | | |

| Schedule Profile Detail (R-4a Exhibit) | | | | | | February 2003 | | |
|--|----------------|----------------|--|----------------|----------------|----------------|-----------------------|----------------|
| BUDGET ACTIVITY 5 - System Development and Demonstration | | | PE NUMBER AND TITLE 0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT | | | | PROJECT 361 | |
| <u>Schedule Detail</u> | <u>FY 2002</u> | <u>FY 2003</u> | <u>FY 2004</u> | <u>FY 2005</u> | <u>FY 2006</u> | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> |
| IEWTPT CONTRACT AWARD | 1Q | 1-3Q | 1Q | 1Q | 1Q | 1Q | | |
| IEWTPT Operational Test | | | 3Q | | | | | |
| IEWTPT Milestone C | | | 4Q | | | | | |
| IEWTPT Material Release | | | | 1Q | | | | |

| ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit) | | | | | | | | February 2003 | | |
|---|-------------------|---------------------|---------------------|--|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------|
| BUDGET ACTIVITY 5 - System Development and Demonstration | | | | PE NUMBER AND TITLE 0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT | | | | PROJECT 362 | | |
| COST (In Thousands) | FY 2002 Actual | FY 2003 Estimate | FY 2004 Estimate | FY 2005 Estimate | FY 2006 Estimate | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | Cost to Complete | Total Cost |
| 362 WARFIGHTER SIMULATION | 60135 | 36661 | 14720 | 0 | 0 | 0 | 0 | 0 | 0 | 111516 |
| <p><u>A. Mission Description and Budget Item Justification:</u> This Project funds the development of Warfighter Simulation (WARSIM), the Army's premier wargaming simulation for training leaders and battlestaffs at Division, Corps, and echelons above Corps. WARSIM will interoperate with OneSAF and other simulations, so that a warfighter training exercise can represent in simulation all Army echelons. It also developed the Land component for the Joint Simulation System (JSIMS) and the Joint Tactical Intelligence Model for JSIMS Version 1. WARSIM will provide functionality not currently available (digital operations, stability and support operations, information ops), link to unit organic C4I equipment, improve exercise generation and after-action reporting. The FY04 funding continues the development of the Army training system, integration and system evaluation.</p> <p>This system supports the Objective transition path of the Transformation Campaign Plan (TCP).</p> | | | | | | | | | | |
| <u>Accomplishments/Planned Program</u> | | | | | | <u>FY 2002</u> | <u>FY 2003</u> | <u>FY 2004</u> | <u>FY 2005</u> | |
| Completed the software development and integration of WARSIM to provide Joint training capability for JSIMS Version 1.0 and support of JSIMS user demonstration. Includes prime contract closeout activities. | | | | | | 15493 | 10855 | 0 | 0 | |
| Completes software development and integration of Joint Tactical Intelligence Model (JTIM) within JSIMS. | | | | | | 6823 | 5382 | 0 | 0 | |
| Verify and Validate software models | | | | | | 378 | 823 | 535 | 0 | |
| Develop and integrate JSIMS Common Component Work Station (CCWS) and system Technical Control improvements. | | | | | | 6152 | 1560 | 0 | 0 | |
| Continue the software development, integration and test of functionality to provide Army warfighter training capability. | | | | | | 31289 | 13554 | 8765 | 0 | |
| Develop user interface enhancements for Army training applications. | | | | | | 0 | 2450 | 2710 | 0 | |
| Develop and evaluate system performance and conduct system test events | | | | | | 0 | 2037 | 2710 | 0 | |
| Totals | | | | | | 60135 | 36661 | 14720 | 0 | |

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| ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit) | | February 2003 |
| BUDGET ACTIVITY 5 - System Development and Demonstration | PE NUMBER AND TITLE 0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT | PROJECT 362 |
| <p><u>B. Other Program Funding Summary:</u> Not applicable for this item.</p> <p><u>C. Acquisition Strategy:</u>Competitive development based on performance specifications.</p> | | |

| ARMY RDT&E COST ANALYSIS(R-3) | | | | | | | | | February 2003 | | | |
|--|------------------------|--------------------------------------|----------------|--------------|--|--------------|--------------------|--------------|--------------------|-----------------------|------------|--------------------------|
| BUDGET ACTIVITY 5 - System Development and Demonstration | | | | | PE NUMBER AND TITLE 0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT | | | | | PROJECT 362 | | |
| I. Product Development | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2003 Cost | FY 2003 Award Date | FY 2004 Cost | FY 2004 Award Date | FY 2005 Cost | FY 2005 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
| a . JSIMS Land Component Systems Development | C/CPAF | Lockheed Martin Info Sys, Orlando FL | 35668 | 8920 | 1-3Q | 0 | | 0 | | 0 | 44588 | 0 |
| b . JTIM Systems Development | C/CPAF | Veridian Sys Solutions, Orlando FL | 6723 | 5696 | 1-3Q | 0 | | 0 | | 0 | 12419 | 0 |
| c . JSIMS CCWS and Tech Control | C/CPAF | Lockheed Martin Info Sys, Orlando | 7338 | 1256 | 1Q | 0 | | 0 | | 0 | 8594 | 0 |
| d . WARSIM Development of Army Training System | C/CPAF | Lcokheed Martin Info Sys, Orlando FL | 0 | 9320 | 2-3Q | 7443 | 1-3Q | 0 | | 0 | 16763 | 0 |
| | | | | | | | | | | | | |
| Subtotal: | | | 49729 | 25192 | | 7443 | | 0 | | 0 | 82364 | 0 |
| | | | | | | | | | | | | |

| ARMY RDT&E COST ANALYSIS(R-3) | | | | | | | | | February 2003 | | | |
|--|------------------------|--------------------------------|----------------|--------------|---|--------------|--------------------|--------------|--------------------|------------------|------------|--------------------------|
| BUDGET ACTIVITY 5 - System Development and Demonstration | | | | | PE NUMBER AND TITLE 0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT | | | | | PROJECT 362 | | |
| II. Support Cost | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2003 Cost | FY 2003 Award Date | FY 2004 Cost | FY 2004 Award Date | FY 2005 Cost | FY 2005 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
| a . Engineering & Tech Spt | Multiple | Various | 2394 | 2714 | 1-4Q | 820 | 1-4Q | 0 | | 0 | 5928 | 0 |
| | | | | | | | | | | | | |
| Subtotal: | | | 2394 | 2714 | | 820 | | 0 | | 0 | 5928 | 0 |
| | | | | | | | | | | | | |
| III. Test and Evaluation | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2003 Cost | FY 2003 Award Date | FY 2004 Cost | FY 2004 Award Date | FY 2005 Cost | FY 2005 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
| a . Verification, Validation and Accreditation | Multiple | Various | 928 | 991 | 1-3Q | 480 | 1-3Q | 0 | | 0 | 2399 | Continue |
| b . WARSIM System Evaluation and Test | Multiple | Various | 2606 | 3472 | 1-2Q | 2342 | 1-3Q | 0 | | 0 | 8420 | Continue |
| | | | | | | | | | | | | |
| Subtotal: | | | 3534 | 4463 | | 2822 | | 0 | | 0 | 10819 | Continue |
| Remarks: System evaluation and test includes WARSIM developmental and operational testing and support to JSIMS operational test and includes both government and contractor costs. | | | | | | | | | | | | |

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|---|------------------------|-----------------------------------|----------------|--------------|---|--------------|--------------------|--------------|--------------------|------------------|------------|--------------------------|
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| BUDGET ACTIVITY 5 - System Development and Demonstration | | | | | PE NUMBER AND TITLE 0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT | | | | | PROJECT 362 | | |
| IV. Management Services | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2003 Cost | FY 2003 Award Date | FY 2004 Cost | FY 2004 Award Date | FY 2005 Cost | FY 2005 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
| a . Program Management | Multiple | Various | 4308 | 4048 | 1Q | 3470 | 1-4Q | 0 | | 0 | 11826 | 0 |
| b . Cost Analysis Support | T&M | Northrup Grumman-TASC, Orlando FL | 170 | 244 | 2-3Q | 165 | 2-3Q | 0 | | 0 | 579 | 0 |
| | | | | | | | | | | | | |
| Subtotal: | | | 4478 | 4292 | | 3635 | | 0 | | 0 | 12405 | 0 |
| | | | | | | | | | | | | |
| Project Total Cost: | | | 60135 | 36661 | | 14720 | | 0 | | 0 | 111516 | Continue |
| | | | | | | | | | | | | |

| Schedule Profile Detail (R-4a Exhibit) | | | | | | February 2003 | | |
|--|----------------|----------------|--|----------------|----------------|----------------|----------------|-----------------------|
| BUDGET ACTIVITY 5 - System Development and Demonstration | | | PE NUMBER AND TITLE 0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT | | | | | PROJECT 362 |
| <u>Schedule Detail</u> | <u>FY 2002</u> | <u>FY 2003</u> | <u>FY 2004</u> | <u>FY 2005</u> | <u>FY 2006</u> | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> |
| Award WARSIM System Development Contract | 1-4Q | 1-3Q | 1-3Q | | | | | |
| Award JTIM System Development Contract | 1-3Q | 1-4Q | | | | | | |
| JSIMS Version 1.0 Release | | 1Q | | | | | | |
| Closeout JTIM Contract | | 4Q | | | | | | |
| WARSIM /JSIM joint functional assessment | 3Q | | | | | | | |