

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2008

| | | | | | | | | | |
|--|------------------|---|------------------|------------------|------------------|------------------|------------------|------------------|------------|
| BUDGET ACTIVITY 5 - System Development and Demonstration | | PE NUMBER AND TITLE 0604746A - Automatic Test Equipment Development | | | | | | | |
| COST (In Thousands) | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | FY 2010 Estimate | FY 2011 Estimate | FY 2012 Estimate | FY 2013 Estimate | Cost to Complete | Total Cost |
| Total Program Element (PE) Cost | 7896 | 9961 | 23582 | 15633 | 14589 | 14948 | 15358 | Continuing | Continuing |
| L59 DIAGNOST/EXPERT SYS DE | 5296 | 6497 | 20003 | 11992 | 10873 | 11279 | 11610 | Continuing | Continuing |
| L65 Test Equipment Development | 2600 | 3464 | 3579 | 3641 | 3716 | 3669 | 3748 | Continuing | Continuing |

A. Mission Description and Budget Item Justification: This program element (PE) provides for development and testing of general-purpose test equipment, and state-of-the-art diagnostics and prognostics technology, software, and systems to support the increasingly complex electronic components of the Army's new and upgraded weapon systems. It focuses on implementation of commercial test and diagnostic technologies across multiple weapon platforms to minimize the cost of troubleshooting and maintenance of Army equipment in the field.

Modular, reconfigurable automatic and semi-automatic systems are developed under this program to satisfy weapon system test and diagnostics requirements. The Next Generation Automatic Test System (NGATS), also known as the Base Shop Test Facility (BSTF) (V)6, currently under development will provide state-of-the-art test and diagnostic capabilities to support current and future weapon systems. It is the platform for transitioning Agile Rapid Global Combat Support System (ARGCS) technologies into the Army weapon system support structure, and it will replace several aging automatic test systems (ATS) which are becoming prohibitively expensive to operate and maintain.

This PE also provides for continued development and improvement of measurement equipment with emphasis on the incorporation of digital electronics and tailoring of configurations to improve deployability, mobility, and survivability of the support equipment. Artificial intelligence and anticipatory maintenance applications are being developed to support the integration of self-diagnostic capabilities in Army weapons and support systems. The goal of these efforts is to reduce logistics burdens and improve readiness by minimizing the need for external testers and improving the troubleshooting abilities of soldiers in the field.

FY2009 funding for this program continues to support development in accordance with DoD and Army policies of the Army Standard Next Generation Automatic Test System which will improve deployability and mobility of test and diagnostic equipment and replace automated equipment currently supporting the Abrams and Bradley. It will also develop or significantly modify test equipment to satisfy modular force and homeland security support requirements that cannot be accommodated with test equipment currently available in the commercial marketplace.

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BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604746A - Automatic Test Equipment Development

| <u>B. Program Change Summary</u> | FY 2007 | FY 2008 | FY 2009 |
|--|---------|---------|---------|
| Previous President's Budget (FY 2008/2009) | 8046 | 18025 | 23728 |
| Current BES/President's Budget (FY 2009) | 7896 | 9961 | 23582 |
| Total Adjustments | -150 | -8064 | -146 |
| Congressional Program Reductions | | -8064 | |
| Congressional Rescissions | | | |
| Congressional Increases | | | |
| Reprogrammings | 59 | | |
| SBIR/STTR Transfer | -209 | | |
| Adjustments to Budget Years | | | -146 |

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2008

| | | | | | | | | | | |
|---|------------------|--|------------------|------------------|------------------|------------------|------------------------------|------------------|------------|--|
| BUDGET ACTIVITY 5 - System Development and Demonstration | | PE NUMBER AND TITLE 0604746A - Automatic Test Equipment Development | | | | | PROJECT L59 | | | |
| COST (In Thousands) | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | FY 2010 Estimate | FY 2011 Estimate | FY 2012 Estimate | FY 2013 Estimate | Cost to Complete | Total Cost | |
| L59 DIAGNOST/EXPERT SYS DE | 5296 | 6497 | 20003 | 11992 | 10873 | 11279 | 11610 | Continuing | Continuing | |

A. Mission Description and Budget Item Justification: This project funds development of and system enhancements for the Next Generation Automatic Test System (NGATS). The NGATS, also known as the Base Shop Test Facility (BSTF) (V)6, is a general-purpose automatic test system (ATS) that will provide test and diagnostic capabilities required to support current and future weapons and combat support systems and will facilitate retirement of aging and obsolete test equipment that is imposing increasing logistics and operations and support cost burdens. It is the platform for transitioning Agile Rapid Global Combat Support System (ARGCS) technologies into the Army weapon system support structure. The ARGCS initiative was sponsored by the Department of Defense, and all Services are expected to transition demonstrated technologies into their automatic test systems programs. This project also provides for continuing efforts to upgrade and improve general-purpose automatic test equipment to satisfy test and diagnostic requirements of the Army's new and upgraded weapon systems; development and adaptation of automatic test equipment required to overcome existing deficiencies and voids in organic test and diagnostic capabilities; development and testing of common procedures utilizing existing test program sets and software applications; and market surveys of commercially available test equipment, methods, and procedures to determine applicability to Army requirements. The test and diagnostic systems and procedures developed under this project are essential for ensuring the operational readiness, accuracy, and effectiveness of the Army's warfighting systems.

NOTE: FY 2008 funding total does not include \$6.5 million previously requested for current FY 2008 GWOT requirements.

| <u>Accomplishments/Planned Program:</u> | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> |
|---|----------------|----------------|----------------|
| FY07: Complete NGATS prototype development (Increment 1) (including CTI integration and shelter modifications) | 3817 | | |
| FY07-FY08: Complete NGATS developmental testing (Increment 1) (including environmental, dynamic, E3, reliability, and log demo) | 400 | 400 | |
| FY08: Complete NGATS (Increment 1) operational testing | 579 | 594 | |
| FY08-FY09: Develop initial NGATS logistics (including provisioning, calibration, and technical data) | | 1338 | 4003 |
| FY07-FY08: Test and evaluate Abrams and Bradley electronic test program sets (TPS) for use on NGATS | 500 | 2500 | |
| FY08-FY09: Continue development of the NGATS electro-optics subsystem to include the capability to support new ground and aerial sensors for unmanned air and ground vehicles | | 500 | 5000 |
| FY08-FY09: Develop and test hardware and software required for Increment 2 systems (Avenger, MLRS, TOW, Paladin and CROWS II) and E-O TPSs for Abrams and Bradley systems | | 500 | 8000 |
| FY08-FY09: Develop NGATS Net Centric maintenance capability to support condition-based maintenance (CBM+), embedded diagnostics and Smart TPS development for all supported platforms | | 500 | 3000 |
| FY08: Small Business Innovative Research/Small Business Technology Transfer Programs | | 165 | |
| Total | 5296 | 6497 | 20003 |

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2008

| | | | | | | | | | |
|--|---------|---------|---|---------|---------|---------|---------|-----------------------|------------|
| BUDGET ACTIVITY 5 - System Development and Demonstration | | | PE NUMBER AND TITLE 0604746A - Automatic Test Equipment Development | | | | | PROJECT L59 | |
| <u>B. Other Program Funding Summary</u> | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 | To Compl | Total Cost |
| OPA3, MB4000, Integrated Family of Test Equipment (IFTE) | 142054 | 36269 | 46296 | 114807 | 122041 | 95564 | 53458 | Continuing | Continuing |

Comment:

C. Acquisition Strategy This developmental project consists of cooperative in-house and competitive and sole-source contractual actions. When the necessary expertise and capability are available within the Department of Defense, services required for the individual development projects are ordered from the government source; otherwise, commercial contracts are used. Equipment required for developmental projects is obtained by contract from the commercial supplier. Developmental efforts for the Next Generation Automatic Test System (NGATS) are being completed under a sole-source contract awarded to the prime contractor for the Integrated Family of Test Equipment off-platform testers. NGATS will follow an evolutionary acquisition strategy using spiral development. The NGATS Increment 1 will replace the Direct Support Electrical Systems Test Set (DSESTS). Increments 2 and 3 will replace the Base Shop Test Facility (BSTF) (V)3 and BSTF (V)5 systems respectively.

ARMY RDT&E COST ANALYSIS (R3)

February 2008

| BUDGET ACTIVITY | | | PE NUMBER AND TITLE | | | | | | | PROJECT | | |
|--|------------------------|---------------------------------------|---|--------------|--------------------|--------------|--------------------|--------------|--------------------|------------------|------------|--------------------------|
| 5 - System Development and Demonstration | | | 0604746A - Automatic Test Equipment Development | | | | | | | L59 | | |
| I. Product Development | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2007 Cost | FY 2007 Award Date | FY 2008 Cost | FY 2008 Award Date | FY 2009 Cost | FY 2009 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
| Prototype Development | SS/CPFF | Northrop Grumman, Rolling Meadows, IL | 13472 | 1604 | 2Q | | | | | | 15076 | 15116 |
| Hardware/Support Items Development | SS/CPFF(5) | Northrop Grumman, Rolling Meadows, IL | 47000 | 1174 | 2Q | 299 | 2-4Q | 8654 | 2-4Q | Cont. | Cont. | Cont. |
| Software Development/Verification/Validation | SS/CPFF(5) | Northrop Grumman, Rolling Meadows, IL | 4239 | 1122 | 2Q | 4014 | 2-4Q | 10249 | 2-4Q | Cont. | Cont. | Cont. |
| Subtotal: | | | 64711 | 3900 | | 4313 | | 18903 | | Cont. | Cont. | Cont. |
| | | | | | | | | | | | | |
| II. Support Costs | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2007 Cost | FY 2007 Award Date | FY 2008 Cost | FY 2008 Award Date | FY 2009 Cost | FY 2009 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
| Project Management/Technical Support | | Various | 43590 | 252 | 1-4Q | 525 | 1-4Q | 600 | 1-4Q | Cont. | Cont. | Cont. |
| Other Direct | | Various | 1390 | 165 | 1-4Q | 500 | 1-4Q | 500 | 1-4Q | Cont. | Cont. | Cont. |
| Subtotal: | | | 44980 | 417 | | 1025 | | 1100 | | Cont. | Cont. | Cont. |
| | | | | | | | | | | | | |
| III. Test And Evaluation | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2007 Cost | FY 2007 Award Date | FY 2008 Cost | FY 2008 Award Date | FY 2009 Cost | FY 2009 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
| Operational Testing | Various | Various | 2814 | 579 | 2Q | 594 | 1-3Q | | | Cont. | Cont. | Cont. |
| Developmental Testing | Various | Various | 597 | 400 | 2Q | 400 | 1-3Q | | | Cont. | Cont. | Cont. |
| Subtotal: | | | 3411 | 979 | | 994 | | | | Cont. | Cont. | Cont. |
| Remarks: Test Program Set (TPS) test and evaluation is included in the product development cost. | | | | | | | | | | | | |
| IV. Management Services | Contract | Performing Activity & | Total | FY 2007 | FY 2007 | FY 2008 | FY 2008 | FY 2009 | FY 2009 | Cost To | Total | Target |

ARMY RDT&E COST ANALYSIS (R3)

February 2008

| BUDGET ACTIVITY | | | PE NUMBER AND TITLE | | | | | | | PROJECT | | |
|---|---------------|----------|--|-------------|------------|-------------|------------|--------------|------------|--------------|--------------|-------------------|
| 5 - System Development and Demonstration | | | 0604746A - Automatic Test Equipment Development | | | | | | | L59 | | |
| | Method & Type | Location | PYs Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Complete | Cost | Value of Contract |
| SBIR/STTR | | | | | | 165 | 2Q | | | | 165 | |
| Subtotal: | | | | | | 165 | | | | | 165 | |
| Project Total Cost: | | | 113102 | 5296 | | 6497 | | 20003 | | Cont. | Cont. | Cont. |

Schedule Profile (R4 Exhibit)

February 2008

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604746A - Automatic Test Equipment Development

PROJECT
L59

| Event Name | FY 07 | | | | FY 08 | | | | FY 09 | | | | FY 10 | | | | FY 11 | | | | FY 12 | | | | FY 13 | | | |
|--|-------|---|---|---|---------------------------------------|---|---|---|-------|---|---|---|-----------------------|---|---|---|-------|---|---|---|-------|---|---|---|-------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| (1) Milestone C, (2) Full Rate Production Decision Review | | | | | ▲ ₁ MS C | | | | | | | | ▲ ₂ FRP-DR | | | | | | | | | | | | | | | |
| (3) Full Materiel Release, (4) First Unit Equipped | | | | | FMR ▲ ₃ ▲ ₄ FUE | | | | | | | | | | | | | | | | | | | | | | | |
| NGATS Prototype Development (Increment 1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NGATS System Development and Demonstration (SDD) (Increment 1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NGATS Testing (Increment 1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NGATS Production (Increment 1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NGATS SDD (Increment 2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NGATS Testing (Increment 2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NGATS Production (Increment 2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NGATS SDD (Increment 3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NGATS Testing (Increment 3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Schedule Detail (R4a Exhibit)

February 2008

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604746A - Automatic Test Equipment Development

PROJECT
L59

| <u>Schedule Detail</u> | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> | <u>FY 2010</u> | <u>FY 2011</u> | <u>FY 2012</u> | <u>FY 2013</u> |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Milestone C | | 2Q | | | | | |
| Full Rate Production Decision Review | | | | 1Q | | | |
| Full Materiel Release | | | | 1Q | | | |
| First Unit Equipped | | | | 1Q | | | |
| NGATS Prototype Development (Increment 1) | 1Q - 4Q | 1Q | | | | | |
| NGATS System Development and Demonstration (SDD) (Increment 1) | 1Q - 4Q | 1Q - 4Q | | | | | |
| NGATS Testing (Increment 1) | 2Q - 4Q | 1Q - 4Q | 1Q - 3Q | | | | |
| NGATS Production (Increment 1) | | | 1Q - 4Q | 1Q - 4Q | 1Q - 4Q | 1Q | |
| NGATS SDD (Increment 2) | | 4Q | 1Q - 4Q | 1Q | | | |
| NGATS Testing (Increment 2) | | | 2Q - 4Q | 1Q - 4Q | 1Q | | |
| NGATS Production (Increment 2) | | | | | 3Q - 4Q | 1Q - 4Q | 1Q - 4Q |
| NGATS SDD (Increment 3) | | | | 3Q - 4Q | 1Q - 4Q | 1Q - 2Q | |
| NGATS Testing (Increment 3) | | | | 4Q | 1Q - 4Q | 1Q - 3Q | |

* Test program set (TPS) compatibility testing runs continually throughout the product development process.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

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| | | | | | | | | | |
|---|------------------|--|------------------|------------------|------------------|------------------|------------------|------------------------------|------------|
| BUDGET ACTIVITY 5 - System Development and Demonstration | | PE NUMBER AND TITLE 0604746A - Automatic Test Equipment Development | | | | | | PROJECT L65 | |
| COST (In Thousands) | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | FY 2010 Estimate | FY 2011 Estimate | FY 2012 Estimate | FY 2013 Estimate | Cost to Complete | Total Cost |
| L65 Test Equipment Development | 2600 | 3464 | 3579 | 3641 | 3716 | 3669 | 3748 | Continuing | Continuing |

A. Mission Description and Budget Item Justification: This project supports development and demonstration of state-of-the-art calibration standards, techniques, and upgrades/improvements to existing Army calibration systems. It provides for feasibility studies, market research, inventory analyses, bid sample testing, and prototyping to support calibration systems and general-purpose test and diagnostic equipment. Primary efforts under this project include development of an up-armor ready AN/GSM-421(V2) tactical calibration capability, improvement of test and measurement equipment performance envelopes via preplanned product improvements (P3I), and development/evaluation of advanced technology and higher reliability calibration systems and general-purpose test, measurement and diagnostic equipment (TMDE). Preplanned product improvements are underway to current test and measurement systems to overcome deficiencies and voids in existing organic capabilities and to ensure the operational readiness, accuracy, effectiveness, and safety of Army weapons and combat support systems. These improvements will employ reconfigurable open electronics architecture and computer-based instrumentation wherever feasible and will be focused on reducing test equipment footprints to improve deployability and mobility in area of operations.

| <u>Accomplishments/Planned Program:</u> | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> |
|--|----------------|----------------|----------------|
| FY07-FY09: Develop hardware via preplanned product improvements to enhance TMDE systems' performance capabilities | 560 | 580 | 600 |
| FY07-FY09: Test and integrate hardware developed for preplanned product improvements | 730 | 775 | 827 |
| FY07-FY09: Develop, evaluate, and integrate test and measurement equipment | 919 | 1007 | 1100 |
| FY07-FY09: Continue development and evaluation of test and calibration procedures | 190 | 200 | 210 |
| FY07-FY09: Perform market research and evaluation of commercial equipment, and develop performance specifications for acquisitions | 201 | 805 | 842 |
| FY07: Small Business Innovative Research/Small Business Technology Transfer Programs | | 97 | |
| Total | 2600 | 3464 | 3579 |

| <u>B. Other Program Funding Summary</u> | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 | To Compl | Total Cost |
|---|---------|---------|---------|---------|---------|---------|---------|------------|------------|
| OPA3, N10000, Calibration Sets Equipment | 19118 | 10572 | 9689 | 18621 | 14283 | 14280 | 20166 | Continuing | Continuing |
| OPA3, N11000, General Purpose Electronic Test Equipment | 22385 | 19172 | 22377 | 22515 | 19238 | 13139 | 5802 | Continuing | Continuing |

Comment:

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2008

BUDGET ACTIVITY

5 - System Development and Demonstration

PE NUMBER AND TITLE

0604746A - Automatic Test Equipment Development

PROJECT

L65

C. Acquisition Strategy Projects are focused on use of commercial and nondevelopmental item technologies. When programmatic and engineering expertise and capability are available within the Department of Defense, services required for the individual development projects are acquired from the government source; otherwise, commercial services contracts are used to provide these capabilities. Equipment required for development projects is obtained from the commercial supplier. Candidate commercial equipment and nondevelopmental items are identified and evaluated through market research and government testing and evaluation.

ARMY RDT&E COST ANALYSIS (R3)

February 2008

| BUDGET ACTIVITY | | | PE NUMBER AND TITLE | | | | | | | PROJECT | | |
|--|------------------------|--------------------------------|---|--------------|--------------------|--------------|--------------------|--------------|--------------------|------------------|------------|--------------------------|
| 5 - System Development and Demonstration | | | 0604746A - Automatic Test Equipment Development | | | | | | | L65 | | |
| I. Product Development | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2007 Cost | FY 2007 Award Date | FY 2008 Cost | FY 2008 Award Date | FY 2009 Cost | FY 2009 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
| Systems Engineering | Various | Various | 5948 | 934 | 1-2Q | 1407 | 1-2Q | 1572 | 1-2Q | Cont. | Cont. | Cont. |
| Procedures Development and Evaluation | Various | Various | 1918 | 190 | 1-3Q | 200 | 1-3Q | 210 | 1-3Q | Cont. | Cont. | Cont. |
| Government Engineering | | Various | 1340 | 330 | 1-4Q | 515 | 1-4Q | 515 | 1-4Q | Cont. | Cont. | Cont. |
| Subtotal: | | | 9206 | 1454 | | 2122 | | 2297 | | Cont. | Cont. | Cont. |
| | | | | | | | | | | | | |
| II. Support Costs | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2007 Cost | FY 2007 Award Date | FY 2008 Cost | FY 2008 Award Date | FY 2009 Cost | FY 2009 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
| Technical Support Services | Various | Various | 738 | 229 | 2Q | 300 | 2Q | 310 | 2Q | Cont. | Cont. | Cont. |
| Subtotal: | | | 738 | 229 | | 300 | | 310 | | Cont. | Cont. | Cont. |
| | | | | | | | | | | | | |
| III. Test And Evaluation | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2007 Cost | FY 2007 Award Date | FY 2008 Cost | FY 2008 Award Date | FY 2009 Cost | FY 2009 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
| Testing | Various | Various | 1052 | 579 | 1-2Q | 595 | 1-2Q | 612 | 1-2Q | Cont. | Cont. | Cont. |
| Subtotal: | | | 1052 | 579 | | 595 | | 612 | | Cont. | Cont. | Cont. |
| | | | | | | | | | | | | |
| IV. Management Services | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2007 Cost | FY 2007 Award Date | FY 2008 Cost | FY 2008 Award Date | FY 2009 Cost | FY 2009 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
| Program Management Personnel | | Various | 544 | 338 | 1-4Q | 350 | 1-4Q | 360 | 1-4Q | Cont. | Cont. | Cont. |
| SBIR/STTR | | | | | | 97 | 2Q | | | | 97 | |

ARMY RDT&E COST ANALYSIS (R3)

February 2008

| | | | | | | | | | |
|--|---|-------------|--|-------------|--|-------------|-----------------------|--------------|--------------|
| BUDGET ACTIVITY 5 - System Development and Demonstration | PE NUMBER AND TITLE 0604746A - Automatic Test Equipment Development | | | | | | PROJECT L65 | | |
| Subtotal: | 544 | 338 | | 447 | | 360 | Cont. | Cont. | Cont. |
| Project Total Cost: | 11540 | 2600 | | 3464 | | 3579 | Cont. | Cont. | Cont. |

Schedule Profile (R4 Exhibit)

February 2008

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604746A - Automatic Test Equipment Development

PROJECT
L65

| Event Name | FY 07 | | | | FY 08 | | | | FY 09 | | | | FY 10 | | | | FY 11 | | | | FY 12 | | | | FY 13 | | | |
|--|------------|---|---|---|-------|---|---|---|-------|---|---|---|-------|---|---|---|-------|---|---|---|-------|---|---|---|-------|---|---|---|
| | 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 |
| Test and Measurement Equipment - Development | [Redacted] | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test and Measurement Equipment - Testing | [Redacted] | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Market research and evaluation of comm equipment/development of performance spec | [Redacted] | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Schedule Detail (R4a Exhibit)

February 2008

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604746A - Automatic Test Equipment Development

PROJECT
L65

| <u>Schedule Detail</u> | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> | <u>FY 2010</u> | <u>FY 2011</u> | <u>FY 2012</u> | <u>FY 2013</u> |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Test and Measurement Equipment - Development | 2Q - 4Q | 1Q - 4Q |
| Test and Measurement Equipment - Testing | 2Q - 4Q | 1Q - 4Q |
| Market research and evaluation of comm equipment/development of performance spec | 2Q - 4Q | 1Q - 4Q |