

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | | | | | | | | DATE June 2001 | | |
|--|----------------------------|-------------------|---------------------|---------------------|---|---------------------|---------------------|---------------------|---------------------|------------------------|------------|
| BUDGET ACTIVITY 05 - Engineering and Manufacturing Development | | | | | PE NUMBER AND TITLE 0207249F Precision Attack Systems | | | | | PROJECT 2693 | |
| COST (\$ in Thousands) | | FY 2000 Actual | FY 2001 Estimate | FY 2002 Estimate | FY 2003 Estimate | FY 2004 Estimate | FY 2005 Estimate | FY 2006 Estimate | FY 2007 Estimate | Cost to Complete | Total Cost |
| 2693 | Lantirn | 0 | 3,928 | 5,984 | 0 | 0 | 0 | 0 | 0 | 0 | 9,912 |
| | Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

FY03-FY07 budget numbers do not reflect DoD's strategic review results.

(U) **A. Mission Description**
 The primary mission of the Low Altitude Navigation and Targeting Infrared for Night (LANTIRN) targeting and navigation pods is to execute surgical strike operations under various conditions. The targeting pod is the core of the Combat Air Forces (CAF) precision guided munitions (PGM) capability, the heart of F-15E and F-16Blk40 operations. A suite of support equipment provides maintenance analysis for organic pod repair. The mission capable rate of the pods is related to the availability of the support equipment. This equipment utilizes early 1980's technology and is in serious decline. Operators experience excessive down-time due to obsolete parts and ever decreasing repair capability. The System Program Office has developed a plan to upgrade the support equipment, replacing obsolete parts with commercial off-the-shelf components, increasing throughput by 70 percent, and facilitating AEF-tailored, small footprint, rapid deployment capability.

Without this upgrade, support equipment sustainability and thus, pod operability, are questionable after FY01.

(U) **FY 2000 (\$ in Thousands)**
 (U) \$0 No Activity
 (U) \$0 Total

(U) **FY 2001 (\$ in Thousands)**
 (U) \$3,928 Required development and engineering for upgrade of LANTIRN support equipment, and development of associated technical data and drawings.
 (U) \$3,928 Total

(U) **FY 2002 (\$ in Thousands)**
 (U) \$5,984 Required development and engineering for upgrade of LANTIRN support equipment, and development of associated technical data and drawings.
 (U) \$5,984 Total

Project 2693 Page 1 of 4 Pages Exhibit R-2 (PE 0207249F)

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|---|----------------|-----------------|-----------------|---|-----------------|-----------------|--------------------------|-----------------|-----------------|-------------------|----------------|----------------|-------------------|---|----------------|----------------|----------------|----------------|------------------------|--|---------------|-----------------|-----------------|---------------------------------------|-----------------|-----------------|-----------------|-----------------|-------------------------------------|--|--------------|--|--|---------------------------------------|--|--|--|--|---|--|--|----------------|--|------------------------------|--|--|--|--|----------------|--|-----|--|--|---|--|--|----|--|---------------------------------------|--|-------|-------|-------|
| BUDGET ACTIVITY 05 - Engineering and Manufacturing Development | | | | PE NUMBER AND TITLE 0207249F Precision Attack Systems | | | PROJECT 2693 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(U) <u>B. Budget Activity Justification</u> The LANTIRN SE upgrade program is in budget activity 5 - Engineering and Manufacturing Development because it is in engineering and manufacturing development and has not received full-rate production approval..</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(U) <u>C. Program Change Summary (\$ in Thousands)</u></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;"></th> <th style="text-align: center;"><u>FY 2000</u></th> <th style="text-align: center;"><u>FY 2001</u></th> <th style="text-align: center;"><u>FY 2002</u></th> <th style="text-align: center;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget (FY 2001 PBR)</td> <td></td> <td style="text-align: right;">3,965</td> <td style="text-align: right;">5,985</td> <td style="text-align: right;">9,150</td> </tr> <tr> <td>(U) Appropriated Value</td> <td></td> <td style="text-align: right;">3,965</td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> a. Congressional/General Reductions</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> b. Small Business Innovative Research</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> c. Omnibus or Other Above Threshold Reprogram</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> d. Below Threshold Reprogram</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> e. Rescissions</td> <td></td> <td style="text-align: right;">-37</td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Budget Years Since FY 2001 PBR</td> <td></td> <td></td> <td style="text-align: right;">-1</td> <td></td> </tr> <tr> <td>(U) Current Budget Submit/FY 2002 PBR</td> <td></td> <td style="text-align: right;">3,928</td> <td style="text-align: right;">5,984</td> <td style="text-align: right;">9,912</td> </tr> </tbody> </table> <p>(U) <u>Significant Program Changes:</u></p> | | | | | | | | | | <u>FY 2000</u> | <u>FY 2001</u> | <u>FY 2002</u> | <u>Total Cost</u> | (U) Previous President's Budget (FY 2001 PBR) | | 3,965 | 5,985 | 9,150 | (U) Appropriated Value | | 3,965 | | | (U) Adjustments to Appropriated Value | | | | | a. Congressional/General Reductions | | | | | b. Small Business Innovative Research | | | | | c. Omnibus or Other Above Threshold Reprogram | | | | | d. Below Threshold Reprogram | | | | | e. Rescissions | | -37 | | | (U) Adjustments to Budget Years Since FY 2001 PBR | | | -1 | | (U) Current Budget Submit/FY 2002 PBR | | 3,928 | 5,984 | 9,912 |
| | <u>FY 2000</u> | <u>FY 2001</u> | <u>FY 2002</u> | <u>Total Cost</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) Previous President's Budget (FY 2001 PBR) | | 3,965 | 5,985 | 9,150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) Appropriated Value | | 3,965 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) Adjustments to Appropriated Value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Congressional/General Reductions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. Small Business Innovative Research | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. Omnibus or Other Above Threshold Reprogram | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. Below Threshold Reprogram | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| e. Rescissions | | -37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) Adjustments to Budget Years Since FY 2001 PBR | | | -1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) Current Budget Submit/FY 2002 PBR | | 3,928 | 5,984 | 9,912 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(U) <u>D. Other Program Funding Summary (\$ in Thousands)</u></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;"></th> <th style="text-align: center;"><u>FY 2000</u></th> <th style="text-align: center;"><u>FY 2001</u></th> <th style="text-align: center;"><u>FY 2002</u></th> <th style="text-align: center;"><u>FY 2003</u></th> <th style="text-align: center;"><u>FY 2004</u></th> <th style="text-align: center;"><u>FY 2005</u></th> <th style="text-align: center;"><u>FY 2006</u></th> <th style="text-align: center;"><u>FY 2007</u></th> <th style="text-align: center;"><u>Cost to</u></th> <th style="text-align: center;"><u>Total Cost</u></th> </tr> <tr> <td></td> <th style="text-align: center;"><u>Actual</u></th> <th style="text-align: center;"><u>Estimate</u></th> <th style="text-align: center;"><u>Complete</u></th> <td></td> </tr> </thead> <tbody> <tr> <td>(U) AF RDT&E</td> <td></td> </tr> <tr> <td>(U) Other APPN</td> <td></td> </tr> </tbody> </table> | | | | | | | | | | <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>FY 2006</u> | <u>FY 2007</u> | <u>Cost to</u> | <u>Total Cost</u> | | <u>Actual</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Complete</u> | | (U) AF RDT&E | | | | | | | | | | | (U) Other APPN | | | | | | | | | | | | | | | | | | | | | |
| | <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>FY 2006</u> | <u>FY 2007</u> | <u>Cost to</u> | <u>Total Cost</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <u>Actual</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Complete</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) AF RDT&E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) Other APPN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(U) <u>E. Acquisition Strategy</u> The majority of engineering and development of the upgrade to the LANTIRN Intermediate Automatic Test Equipment (LIATE) and Electro-Optical Test Set (EOTS) will be completed under the Commercial Operations and Support Savings Initiative (COSSI), a DoD-funded program. We will award a contract for any additional engineering development for the LIATE and EOTS and/or for the remaining three test stations in the LANTIRN support equipment suite. Development of the associated technical data and drawings for the upgraded equipment will also be required.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(U) <u>F. Schedule Profile</u></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;"></th> <th style="text-align: center;"><u>FY 2000</u></th> <th style="text-align: center;"><u>FY 2001</u></th> <th style="text-align: center;"><u>FY 2002</u></th> </tr> </thead> <tbody> <tr> <td>Project 2693</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | | | | | <u>FY 2000</u> | <u>FY 2001</u> | <u>FY 2002</u> | Project 2693 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <u>FY 2000</u> | <u>FY 2001</u> | <u>FY 2002</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project 2693 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3) | | | | | | | | DATE June 2001 | | | |
|---|---|-----------------------------|----------------------------|----------------------------|--|-------------------------------|-----------------------|-----------------------|-----------------------|---------------------------|----------------------|
| BUDGET ACTIVITY 05 - Engineering and Manufacturing Development | | | | | PE NUMBER AND TITLE 0207249F Precision Attack Systems | | | PROJECT 2693 | | | |
| (U) A. Project Cost Breakdown (\$ in Thousands) | | | | | | | | | | | |
| | | | | | | <u>FY 2000</u> | | <u>FY 2001</u> | | <u>FY 2002</u> | |
| (U) | Develop LANTIRN SE upgrade and tech data | | | | | | | 3,928 | | 5,984 | |
| (U) | Total | | | | | | | 3,928 | | 5,984 | |
| (U) B. Budget Acquisition History and Planning Information (\$ in Thousands) | | | | | | | | | | | |
| (U) Performing Organizations: | | | | | | | | | | | |
| | <u>Contractor or Government</u> | <u>Contract Method/Type</u> | <u>Award or Obligation</u> | <u>Performing Activity</u> | <u>Project Office</u> | <u>Total Prior to FY 2000</u> | <u>Budget FY 2000</u> | <u>Budget FY 2001</u> | <u>Budget FY 2002</u> | <u>Budget to Complete</u> | <u>Total Program</u> |
| | | <u>Vehicle</u> | <u>Date</u> | <u>EAC</u> | <u>EAC</u> | | | 3,928 | 5,984 | 0 | 9,912 |
| | Lockhee Martin Space and Missiles | | | | | | | | | | |
| | <u>Product Development Organizations</u> | | | | | | | | | | |
| | <u>Support and Management Organizations</u> | | | | | | | | | | |
| | <u>Test and Evaluation Organizations</u> | | | | | | | | | | |
| | <u>Subtotals</u> | | | | | <u>Total Prior to FY 2000</u> | <u>Budget FY 2000</u> | <u>Budget FY 2001</u> | <u>Budget FY 2002</u> | <u>Budget to Complete</u> | <u>Total Program</u> |
| | | | | | | | 3,928 | 5,984 | 0 | 9,912 | |
| | Subtotal Product Development | | | | | | | | | | |
| | Subtotal Support and Management | | | | | | | | | | |
| | Subtotal Test and Evaluation | | | | | | | | | | |
| | Total Project | | | | | | | 3,928 | 5,984 | 0 | 9,912 |