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| Exhibit R-2, RDT&E Budget Item Justification | | | | | Date: Jan 2000 | | | | |
| APPROPRIATION/BUDGET ACTIVITY RDT&E,N - BA4 | | | | | Program Element Name & No. PE 0604327N Hardened Target Munitions | | | | |

| C sot (\$ in Millions) | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | Cost to Complete | Total Cost |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|------------------|------------|
| Total PE Cost | 2.9 | 4.9 | 0 | 0 | 0 | 0 | 0 | CONT. | CONT. |
| J2331 Hard Target Munitions | 0 | 4.9 | 0 | 0 | 0 | 0 | 0 | | |
| J2629 Hard Target Munitions | 2.9 | 0 | 0 | 0 | 0 | 0 | 0 | CONT | CONT |
| RDT&E Articles Qty | | | | | | | | CONT | CONT |

A. (U) Mission Description and Budget Item Justification:
 The Advanced Penetrator Definition Program will develop an advanced conventional earth penetrating warhead for use on conventional ballistic missiles.

(U) JUSTIFICATION FOR BUDGET ACTIVITY: The Advanced Penetrator Definition Program is appropriately justified in BA-4, Demonstration and Validation, as this effort evaluates advanced conventional earth penetrating warhead materials in as realistic an operating environment as possible to assess the performance of advanced technology.

B. (U) Program Change Summary:

| | | |
|-----------------------------|---------------|----------------|
| | <u>FY1999</u> | <u>FY 2000</u> |
| FY 2000 President's Budget: | 3.0 | 4.9 |
| Appropriated Value: | 3.0 | 4.9 |

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| Adjustments to FY 1999/2000 Appropriated Value/ FY 2000 President's Budget: | |
| -0.1 | 0.0 |
| FY 2001 President's Budget Submit: | |
| 2.9 | 4.9 |
| Explanation: The FY 1999 reduction (-.1) was attributable to SBIR. | |
| C. (U) Other Program Funding Summary: See enclosed R-2a for each individual project data. | |
| D. (U) Acquisition Strategy: See enclosed R-2a for each individual project data. | |
| E. (U) Schedule Profile: Not Applicable. | |

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| Exhibit R-2a, RDT&E Project Justification | | | Date: Jan 2000 |
| APPROPRIATION/BUDGET ACTIVITY RDT&E,N - BA4 | Program Element Name & No. PE 0604327N, Hardened Target Munitions | Project Name and Number. Hard Target Munitions J2331 | |

| Cost (\$ in Millions) | | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | Cost to Complete | Total Cost |
|--|--|---------|---------|---------|---------|---------|---------|---------|------------------|------------|
| Project Cost J2331 Hard Target Munitions | | 0 | 4.9 | 0 | 0 | 0 | 0 | 0 | CONT. | CONT. |
| RDT&E Articles Qty | | | | | | | | | | |

A. (U) Mission Description and Budget Item Justification:
 The Advanced Penetrator Definition Program will develop an advanced conventional earth penetrating warhead for use on conventional ballistic missiles.

(U)PROGRAM ACCOMPLISHMENTS AND PLANS:

- (U) FY 1999 PLAN: Funding is provided in Project J2629

R-1 Item No 79 - 3 of 79 - 10

Exhibit R-2a RDT&E Project Justification
 (Exhibit R-2a, Page 3 of 10)

UNCLASSIFIED

UNCLASSIFIED

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|--|---|---|
| Exhibit R-2a, RDT&E Project Justification | | Date: Jan 2000 |
| APPROPRIATION/BUDGET ACTIVITY RDT&E,N - BA4 | Program Element Name & No. PE 0604327N, Hardened Target Munitions | Project Name and Number. Hard Target Munitions J2331 |

| | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (U) Related RDT&E: Project J2629 in FY 1999 | | | | | | | | |
| C. (U) Acquisition Strategy: Contracts will continue to be awarded to those sources who were engaged in the TRIDENT II (D5) development program and are currently engaged in the production and/or operational support of the deployed D5/C4 Strategic Weapons Systems on the basis of Other Than Full and Open Competition pursuant to the authority of 10 U.S.C. 2304 ©(1) and (3) implemented by FAR 6.302.-1, 3 4. | | | | | | | | |
| D. (U) Schedule Profile: Not Applicable. | | | | | | | | |

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| Exhibit R-3, Cost Analysis | | Date: Jan 2000 |
| APPROPRIATION/BUDGET ACTIVITY RDT&E,N - BA4 | Program Element Name & No. PE 0604327N, Hardened Target Munitions | Project Name and Number. Hard Target Munitions J2331 |

| Cost Categories | Contract Method & Type | Performing Activity & Location | Total Pys Cost | FY99 Cost | FY99 Award Date | FY00 Cost | FY00 Award Date | FY01 Cost | FY01 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
|--------------------------------|------------------------|--------------------------------|----------------|-----------|-----------------|-----------|-----------------|-----------|-----------------|------------------|------------|--------------------------|
| Ancillary Hardware Development | SS/CPFF | LMDS/CAL. | 1.2 | 0.0 | N/A | 1.0 | 10/99 | | N/A | Cont. | Cont. | Cont. |
| Ancillary Hardware Development | SS/CPFF | SPA/MD | 0.2 | 0.0 | N/A | .1 | 10/99 | | N/A | Cont. | Cont. | Cont. |
| Ancillary Hardware Development | WR | AIR FORCE | 0.0 | 0.0 | N/A | .1 | 10/99 | | N/A | Cont. | Cont. | Cont. |
| Ancillary Hardware Development | MIPR | DOE/NM | 1.5 | 0.0 | N/A | 1.7 | 10/99 | | N/A | Cont. | Cont. | Cont. |
| Ancillary Hardware Development | WR | ARMY/ALA | 1.1 | 0.0 | N/A | 1.4 | 10/99 | | N/A | Cont. | Cont. | Cont. |
| Ancillary Hardware Development | SS/CPFF | CSDL/MA | 0.0 | 0.0 | N/A | .6 | 10/99 | | N/A | Cont. | Cont. | Cont. |
| Subtotal Product Development | | | 4.6 | 0.0 | | 4.9 | | | | | | |
| Remarks: | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Total Cost | | | | | | | | | | | | |
| | | | 4.6 | 0.0 | | 4.9 | | | | Cont. | Cont. | Cont. |
| Remarks: | | | | | | | | | | | | |
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| Exhibit R-2a, RDT&E Project Justification | | | Date: Jan 2000 |
| APPROPRIATION/BUDGET ACTIVITY RDT&E,N - BA4 | Program Element Name & No. PE 0604327N Hardened Target Munitions | Project Name and Number. Hard Target Munitions - J2629 | |

| Cost (\$ in Millions) | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | Cost to Complete | Total Cost |
|---|---------|---------|---------|---------|---------|---------|---------|---------|------------------|------------|
| Project J2629 Hard Target Munitions | 0* | 2.9 | 0* | 0 | 0 | 0 | 0 | 0 | CONT. | CONT. |
| RDT&E Articles Qty | | | | | | | | | | |

A. (U) Mission Description and Budget Item Justification:
 The Advanced Penetrator Definition Program will develop an advanced conventional earth penetrating warhead for use on conventional ballistic missiles.

* Funded in Project J2331

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

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| Exhibit R-2a, RDT&E Project Justification | | Date: Jan 2000 |
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1. (U) FY 1999 Plan (2.9) This supports a Milestone I acquisition decision. Conducted a joint Navy/Air Force Analysis of Alternatives (AOA) as well as initial planning efforts associated with establishing a joint hard and deeply buried target defeat program. This effort is fully obligated. FY 1999 efforts included:
- (U) Program Office AOA support for the Generic Super Sonic Cruise Missile
 - (U) Completed AOA Studies/Analysis.
 - (U) Produced documentation for Defense Acquisition Board (DAB), supported AOA efforts and DAB activities.
 - (U) Supported AOA Alternative Defeat Analysis.
2. (U) FY 2000 Plan: Funded in Project J2331
3. (U) FY 2001 Plan: N/A

B. (U) Other Program Funding Summary: (Dollars in Thousands)

| FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005To | TOTAL |
|---------|---------|---------|---------|---------|---------|-----------|-------|
|---------|---------|---------|---------|---------|---------|-----------|-------|

R-1 Item No 79 - 8 of 79 - 10

Exhibit R-2a RDT&E Project Justification
(Exhibit R-2a, Page 8 of 10)

UNCLASSIFIED

UNCLASSIFIED

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| Exhibit R-2a, RDT&E Project Justification | | Date: Jan 2000 |
| APPROPRIATION/BUDGET ACTIVITY RDT&E,N - BA4 | Program Element Name & No. PE 0604327N Hardened Target Munitions | Project Name and Number. Hard Target Munitions - J2629 |

| | | | | | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|
| <u>ESTIMATE</u> | <u>COMPLETE</u> | <u>PROGRAM</u> |
| N/A | N/A |

(U) Related RDT&E: Project J2331 in FY 1998 and FY 2000

C. (U) Acquisition Strategy:

Contracts will continue to be awarded to those sources who were engaged in the TRIDENT II (D5) development program and are currently engaged in the production and/or operational support of the deployed D5/C4 Strategic Weapons Systems on the basis of Other Than Full and Open Competition pursuant to the authority of 10 U.S.C. 2304 (c) (1) and (3) implemented by FAR 6.302.-1, 3 4.

D (U) Schedule Profile: Not Applicable

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| Exhibit R-2a, RDT&E Project Justification | | Date: Jan 2000 |
| APPROPRIATION/BUDGET ACTIVITY RDT&E,N - BA4 | Program Element Name & No. PE 0604327N Hardened Target Munitions | Project Name and Number. Hard Target Munitions - J2629 |

| Cost Categories | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY99 Cost | FY99 Award Date | FY00 Cost | FY00 Award Date | FY01 Cost | FY01 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
|--------------------------------|------------------------|--------------------------------|----------------|-----------|-----------------|-----------|-----------------|-----------|-----------------|------------------|------------|--------------------------|
| Ancillary Hardware Development | SS/CPFF | SPA/MD | 00. | .2 | 12/98 | 0.0 | N/A | | N/A | Cont. | Cont. | Cont. |
| Ancillary Hardware Development | WR | NAWC/NJ | 00. | .3 | 12/98 | 0.0 | N/A | | N/A | Cont. | Cont. | Cont. |
| Ancillary Hardware Development | MIPR | DOE/NM | 00. | .4 | 12/98 | .0.0 | N/A | | N/A | Cont. | Cont. | Cont. |
| Ancillary Hardware Development | WR | ARMY/ALA | 00. | .4 | 12/98 | .0.0 | N/A | | N/A | Cont. | Cont. | Cont. |
| Ancillary Hardware Development | PD | Air Force | 00. | 1.5 | 12/98 | 0.0 | N/A | | N/A | | | |
| Ancillary Hardware Development | SS/CPFF | CSDL/MA | 0.0 | .1 | 12/98 | 0.0 | N/A | | N/A | | | |
| Subtotal Product Development | | | 0.0 | 2.9 | | 0.0 | | | | | | |
| Remarks: | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Total Cost | | | 0.0 | 2.9 | | 0.0 | | | | Cont. | Cont. | Cont. |
| Remarks: | | | | | | | | | | | | |
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R-1 Item No 79 - 10 of 79 - 10
 Exhibit R-2a RDT&E Project Justification
 (Exhibit R-2a, Page 10 of 10)

UNCLASSIFIED