

CLASSIFICATION:

UNCLASSIFIED

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: <b>February 2003</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY / BA-5</b>					R-1 ITEM NOMENCLATURE 0604603N Air to Surface Munitions			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Total PE Cost	16.773	13.697	9.701					
A2183 SLAM-ER	12.604	10.764	9.701					
A9078 LIGHT DEFENDER PRECISION STRIKE MISS	4.169	2.933						

**A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:**

(U) A2183/STANDOFF LAND ATTACK MISSILE-EXPANDED RESPONSE (SLAM-ER) Description: This program funds the development of SLAM-ER designed to improve performance in the areas of launch and control aircraft survivability, immunity to countermeasures, probability of kill against hardened targets, and improved user interfaces for both missile planning and launch aircraft integration. The SLAM-ER systems consist of hardware and software upgrades to the missile, software upgrades to the F/A-18 aircraft, and software upgrades to the Joint Missile Planning System (JMPS).

(U) A9078/LIGHT DEFENDER PRECISION STRIKE MISSILE Description: This program has been initiated to integrate and adapt the existing Light Defender missile to the MH-60 aircraft for Anti-Surface Warfare mission applications. Initial IOC is anticipated in FY 2007. The funds will be used to pay for integration of a booster on to the missile.

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**Exhibit R-2, RDTEN Budget Item Justification**  
 (Exhibit R-2, page 1 of 13)

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## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2003</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>		PROGRAM ELEMENT NUMBER AND NAME 0604603N Air to Surface Munitions			PROJECT NUMBER AND NAME A2183 SLAM-ER			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost	12.604	10.764	9.701					
RDT&E Articles Qty								

**A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: A2183/STANDOFF LAND ATTACK MISSILE - EXPANDED RESPONSE (SLAM-ER) Description:** This program funds the development of SLAM-ER designed to improve performance in the areas of launch and control aircraft survivability, immunity to countermeasures, probability of kill against hardened targets and improved user interfaces for both missile planning and launch aircraft integration. The SLAM-ER consists of both hardware and software upgrades to the missile. SLAM-ER incorporates many non development items i.e., the Embedded Global Positioning System/Inertial Navigation System (GPS/INS) (EGI), modified Tomahawk wings and warhead, and the existing advanced mode of the AWW-13 data link pod. The Automatic Target Acquisition (ATA) is being integrated into the SLAM-ER missile to enhance its capability to attack and kill in low thermal contrast, small targets in cluttered urban scenes, and in poor weather. The ATA capability will also reduce the overall number of Standoff Outside Area Defense (SOAD) missiles needed by increasing the probability of kill for part of the target set. In addition, ATA increases pilot and aircraft survivability by minimizing the time that the pilot needs to fly with his head down to control the weapon. SLAM-ER incorporates ATA. To accommodate future U.S. Air Force and Navy aircraft integration, SLAM-ER incorporates a MIL-STD-1760 interface. The SLAM-ER Mission Planning Module (MPM) development and modifications are required to remain compatible with the changes to the Tactical Automated Mission Planning System (TAMPS) and to migrate to the Joint Mission Planning System (JMPS). SLAM ER aircraft software integration efforts need to remain compatible with ongoing F/A-18 periodic software builds.

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<b>(U) B. Accomplishments/Planned Program</b>																			
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Accomplishments/Effort/Subtotal Cost	9.994	5.535	5.301																
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Continue conversion of SLAM/SLAM-ER TAMPS MPM, and F/A-18 MPM into planning components of JMPS.																			
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Continue Missile Flight Test and Evaluation to support JMPS evolutionary acquisition strategy; F/A-18 Software (17C, 19C).																			
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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>			PROGRAM ELEMENT NUMBER AND NAME 0604603N Air to Surface Munitions			PROJECT NUMBER AND NAME A2183 SLAM-ER				

**(U) D. OTHER PROGRAM FUNDING SUMMARY:**

Line Item No. & Name	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Cost
223100 SLAM-ER	25.719	82.178	54.145	61.597	0	0	0	0	0	223.639
WPN SLAM-ER Spares	0.178	1.031	0.652	0.603	1.21	1.654	1.43	1.423	0	6.527

  

**(U) E. ACQUISITION STRATEGY: \***

This is a ACAT II program, post milestone C in full rate production with an approved Acquisition Plan.

  
  
  

**(U) F. MAJOR PERFORMERS: \*\***

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## CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)								DATE: <b>February 2003</b>				
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>			PROGRAM ELEMENT 0604603N Air to Surface Munitions			PROJECT NUMBER AND NAME A2183 SLAM-ER						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development												
Ancillary Hardware Development												
Aircraft Integration												
Ship Integration												
Ship Suitability												
Systems Engineering												
Training Development												
Licenses												
Tooling												
GFE												
Award Fees												
Subtotal Product Development			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												
Development Support												
Software Development	SS/CPIF	Boeing, Mo	140.488	7.022	11/02	6.564	Various				154.074	154.074
Integrated Logistics Support												
Configuration Management												
Technical Data												
Studies & Analyses	Various	Various	47.005	0.400	Various	0.577	Various				47.982	
GFE												
Award Fees												
Subtotal Support			187.493	7.422		7.141		0.000		0.000	202.056	
Remarks:												

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Exhibit R-3 Cost Analysis (page 2)									DATE: <b>February 2003</b>			
APPROPRIATION/BUDGET ACTIVITY <b>RDTE, N / BA-5</b>			PROGRAM ELEMENT 0604603N Air to Surface Munitions			PROJECT NUMBER AND NAME A2183 SLAM-ER						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation												
Operational Test & Evaluation	WX	NAWC-WD	31.370	2.275	Various	1.500	Various				35.145	
Live Fire Test & Evaluation												
Test Assets												
Tooling												
GFE												
Award Fees												
Subtotal T&E			31.370	2.275		1.500		0.000		0.000	35.145	
Remarks:												
Contractor Engineering Support	C/FFP	Delex Corporation	1.161	0.067	08/03	0.060	08/04				1.288	1.288
Government Engineering Support	WX	TBD	0.400	0.940	Various	0.940	Various				2.280	
Program Management Support												
Travel	WX	NAWC-AD		0.060	Various	0.060	Various				0.120	
Transportation												
SBIR Assessment												
Subtotal Management			1.561	1.067		1.060		0.000		0.000	3.688	
Remarks:												
Total Cost			220.424	10.764		9.701		0.000		0.000	240.889	
Remarks:												

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Exhibit R-3, Project Cost Analysis  
(Exhibit R-3, page 7 of 13)

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EXHIBIT R4, Schedule Profile																								DATE: February 2003								
APPROPRIATION/BUDGET ACTIVITY								PROGRAM ELEMENT NUMBER AND NAME								PROJECT NUMBER AND NAME																
RDT&E, N / BA-5								0604603N Air to Surface Munitions								A2183 SLAM-ER																
Fiscal Year	2002				2003				2004				2005				2006				2007				2008				2009			
	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				
Acquisition Milestones				ATA IOC ★			17C IOC ★							SLAM-ER 19C/JMPS IOC ★																		
Engineering Milestones																																
SLAM-ER UPC Prototype Phase	■	■	■																													
SLAM-ER UPC Development			■	■		IBR/PDR △	■	■	■	■	■	■																				
SLAM-ER 17C S/W Upgrade	■	■	■																													
SLAM-ER 19C S/W Upgrade			■	■	■	■	■	■	■	■	■	■																				
Test & Evaluation Milestones																																
Development Test																																
Operational Test	■	■	■																													
Contract Milestones																																
SLAM-ER ATA																																
JMPS/19C Development																																

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APPROPRIATION/BUDGET ACTIVITY <b>RDTE, N / BA-5</b>		PROGRAM ELEMENT NUMBER AND NAME 0604603N Air to Surface Munitions			PROJECT NUMBER AND NAME A9078 Light Defender Precision Strike Missile			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost	<b>4.169</b>	<b>2.933</b>						
RDT&E Articles Qty								
<p><b>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: A9078/LIGHT DEFENDER PRECISION STRIKE MISSILE Description:</b> This program has been initiated to integrate and adapt the existing Light Defender missile for the MH-60 aircraft for Anti-Surface Warfare mission applications. Initial IOC is anticipated in FY 2007. The funds are a Congressional add to pay for integration the initial risk reduction efforts to the missile.</p>								

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Exhibit R-2a, RDTE Project Justification  
(Exhibit R-2a, page 10 of 13)

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N /</b>	PROGRAM ELEMENT NUMBER AND NAME 0604603N Air to Surface Munitions	PROJECT NUMBER AND NAME A9078 Light Defender Precision Strike Missile		
<b>(U) B. Accomplishments/Planned Program</b>				
	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	4.169	2.933		
RDT&E Articles Quantity				
Integrate booster system onto Light Defender Weapon.				
	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost				
RDT&E Articles Quantity				
	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost				
RDT&E Articles Quantity				

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**(U) D. OTHER PROGRAM FUNDING SUMMARY:**

<u>Line Item No. &amp; Name</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 Complete</u>	<u>Total Cost</u>
Not Applicable										0
Related RDT&E,N: Not Applicable										

  

**(U) E. ACQUISITION STRATEGY: \***

This is a non-ACAT program with no specific acquisition strategies.

  

**(U) F. MAJOR PERFORMERS: \*\***

R-1 SHOPPING LIST - Item No. 123

UNCLASSIFIED