

# UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification								DATE:			
								February 2002			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE					
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-7						0702207N Depot Maintenance (Non-IF)					
COST (\$ in Millions)	Prior Year Cost		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Total PE Cost	92.296		37.337	13.448	7.119	2.896					153.096
E3030 F-18 SLAP			10.000	5.919	1.989						17.908
H2451 P-3 SLAP	49.304		17.830	6.794	5.130	2.896					81.954
H2452 S-3 SLAP	34.052		5.082								39.134
W2454 AN/ARC-210-RT-1794(C)	7.241		0.527	0.735							8.503
W2737 Platform Follow-on Analysis	1.699		3.898								5.597
Quantity of RDT&E Articles	Not Applicable										
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The F/A-18 Service Life Assessment Program (SLAP) will assess the structural condition of the F/A-18 fleet in order to determine what structural modifications are necessary to extend the aircraft designed service life and allow it to achieve inventory requirements. The Resource Sponsor (N78) has indicated an urgent need to assess the structural condition of the F/A 18 fleet to determine whether the structural condition supports OPNAV Tactical Aircraft inventory requirements through fiscal year (FY) 2020. It is known that F/A-18 aircraft built prior to Lot 18 are limited to 78% of their design fatigue life due to structural cracking in the section of the fuselage known as the "Center Barrel." The Center Barrel Replacement Plus (CBR+) program eliminates structural life limitations caused by cracking in the Center Barrel. The airframe structure also has the following structural limitations, both of which must be addressed to extend the designed service life of the aircraft. The F/A-18 A/B/C/D aircraft structure will also be assessed to determine the life limit on landings for all four models of types for aircraft lot 8 aircraft and above aircraft. Currently the aircraft structure is limited to 8300 landings. The goal of the SLAP program will be to identify critical structure to allow total landings to be increased to 14,500. This increase in total landings would allow the F/A-18 A/B/C/D to meet OPNAV Tactical Aircraft inventory requirements through fiscal year (FY) 2020.The Service Life Assessment Program (SLAP) on the P-3 to include all P-3 derivatives (H2451) and S-3B (H2452) began in FY 1999. These efforts are required to be conducted for these airframes to ascertain what actions must be taken to safely operate each system until the targeted end of service life. The AN/ARC-210-RT-1794C (W2454) will provide for the development of radio software modifications required for upgrades to the evolving standards. Under W2737 Platform Follow-on Analysis, the Multi-mission Maritime Aircraft (MMA) program provides the replacement system(s) for the aging P-3/EP-3 aircraft. The MMA program received Milestone 0 approval to proceed into Concept Exploration in March 2000.											
(U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under OPERATIONAL SYSTEMS DEVELOPMENT because it encompasses engineering and manufacturing development for the upgrade of existing, operational systems.											

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Exhibit R-2, RD TEN Budget Item Justification  
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EXHIBIT R-2a, RDT&E Project Justification								DATE: <b>February 2002</b>			
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>		PROGRAM ELEMENT NUMBER AND NAME 0702207N DEPOT MAINTENANCE				PROJECT NUMBER AND NAME E3030 F/A-18 Service Life Assessment Program (SLAP)					
COST (\$ in Millions)	Prior Years Cost		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost			<b>10.000</b>	<b>5.919</b>	<b>1.989</b>						<b>17.908</b>
RDT&E Articles Qty	<b>Not applicable</b>										
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>F/A-18 Service Life Assessment Program (SLAP): The Service Life Assessment Program (SLAP) is a FY 2001 new start program which will assess the structural condition of the F/A-18 fleet in order to determine what structural modifications are necessary to extend the aircraft designed service life and allow it to achieve inventory requirements. The Resource Sponsor (N880) has indicated an urgent need to assess the structural condition of the F/A-18 fleet to determine whether the structural condition supports OPNAV Tactical Aircraft inventory requirements through fiscal year (FY) 2020. It is known that F/A-18 aircraft built prior to Lot 18 are limited to 78% of their design fatigue life due to structural cracking in the section of the fuselage known as the "Center Barrel." The Center Barrel Replacement Plus (CBR+) program eliminates structural life limitations caused by cracking in the Center Barrel. The airframe structure also has structural limitations which must be addressed to extend the designed service life of the aircraft. The F/A-18 A/B/C/D aircraft structure will be assessed to determine the life limit on landings for all four models or types of aircraft in lot 8 aircraft and above. Currently the aircraft structure is limited to 8300 landings. The goal of the SLAP program will be to achieve structural capability to allow total landings to be increased to 14,500. This increase in total landings would allow the F/A-18 A/B/C/D to meet OPNAV Tactical Aircraft inventory requirements through fiscal year (FY) 2020.</p> <p>(U) PROGRAM ACCOMPLISHMENTS AND PLANS:</p> <p>1. FY 2001 ACCOMPLISHMENTS:</p> <ul style="list-style-type: none"> <li>- (U) (\$10.000) Conducted analysis to determine Cat/Trap interim extension to 2,200. Began analysis to extend Cat/Traps to 2700 and Landings to 14,500.</li> </ul> <p>2. FY 2002 PLANS</p> <ul style="list-style-type: none"> <li>- (U) (\$4.678) Continue analysis to determine Cat/Trap extension to 2,700 and Landings to 14,500.</li> <li>- (U) (\$1.062) Provided technical support for the Cat/Trap analysis.</li> <li>- (U) (\$.179) Portion of extramural program reserved for Small Business Innovative Research assessment in accordance with 15 USC 638.</li> </ul> <p>3. FY 2003 PLANS</p> <ul style="list-style-type: none"> <li>- (U) (\$1.271) Complete Cat/Trap analysis.</li> <li>- (U) (\$.718) Complete technical support for the Cat/Trap analysis.</li> </ul>											

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>	PROGRAM ELEMENT NUMBER AND NAME 0702207N DEPOT MAINTENANCE	<b>February 2002</b> PROJECT NUMBER AND NAME E3030 F/A-18 Service Life Assessment Program (SLAP)																
<p>(U) B. PROGRAM CHANGE SUMMARY:</p> <table><thead><tr><th></th><th><u>FY2001</u></th><th><u>FY2002</u></th><th><u>FY2003</u></th></tr></thead><tbody><tr><td>(U) FY 2002 President's Budget:</td><td>10.000</td><td>5.972</td><td></td></tr><tr><td>(U) Adjustments from the President's Budget:</td><td>0.000</td><td>-0.053</td><td></td></tr><tr><td>(U) FY 2003 OSD/OMD Budget Submit:</td><td>10.000</td><td>5.919</td><td>1.989</td></tr></tbody></table> <p>CHANGE SUMMARY EXPLANATION:</p> <p>(U) Funding: The FY 2002 decrease of \$.053 million is due to an undistributed congressional reduction.</p> <p>(U) Schedule: Not Applicable.</p> <p>(U) Technical: Not Applicable.</p>				<u>FY2001</u>	<u>FY2002</u>	<u>FY2003</u>	(U) FY 2002 President's Budget:	10.000	5.972		(U) Adjustments from the President's Budget:	0.000	-0.053		(U) FY 2003 OSD/OMD Budget Submit:	10.000	5.919	1.989
	<u>FY2001</u>	<u>FY2002</u>	<u>FY2003</u>															
(U) FY 2002 President's Budget:	10.000	5.972																
(U) Adjustments from the President's Budget:	0.000	-0.053																
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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>		PROGRAM ELEMENT NUMBER AND NAME 0702207N DEPOT MAINTENANCE		PROJECT NUMBER AND NAME E3030 F/A-18 Service Life Assessment Program (SLAP)				
(U) C. OTHER PROGRAM FUNDING SUMMARY:								
<u>Line Item No. &amp; Name</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>To Complete</u>
APN-5 P.E 0204136N F/A-18 Squadrons OSIP (11-99) Service Life Management Program		5.247	16.584	57.046	64.052	84.317	93.826	99.207   536.12
<u>Related RDT&amp;E</u>								
RDTEN PE 0605500N Multi-mission Maritime Aircraft		53.329	74.531	218.861	198.566	437.913	405.369	1012.931
(U) ACQUISITION STRATEGY: The SLAP program employs sole source contracts to BOEING, the aircraft prime manufacturer, and concurrent organic efforts being conducted by both NADEP, North Island and NAWCAD, Patuxent River. SLAP consists of structural analy								

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Exhibit R-2, RDTEN Budget Item Justification  
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APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME					
RDT&E, N / BA-7			0702207N DEPOT MAINTENANCE				E3030 F/A-18 Service Life Assessment Program (SLAP)					
(U) E. SCHEDULE PROFILE:												
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Exhibit R-3 Cost Analysis (page 1)								DATE: February 2002				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-7						E3030 F/A-18 Service Life Assessment Program (SLAP)						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
SLAP Contract	SS/FFP	BOEING, St Louis		10.000	11/01	1.168	12/01	0.359	12/02		11.527	11.527
SLAP Development	WX	NAWCAD Pax River, MD				0.563	12/01	0.132	11/02		0.695	
SLAP Development	WX	NADEP North Island, CA				2.947	12/01	0.780	11/02		3.727	
Subtotal Product Development				10.000		4.678		1.271			15.949	
Remarks:												
Subtotal Support												
Remarks:												

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Exhibit R-3 Cost Analysis (page 2)								DATE: <b>February 2002</b>				
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>			PROGRAM ELEMENT			PROJECT NUMBER AND NAME E3030 F/A-18 Service Life Assessment Program (SLAP)						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Subtotal T&E												
Remarks:												
SLAP Contractor Support	WX	Various				1.017	12/01	0.698	11/02		1.715	
Travel	WX	NAVAIR Pax River, MD				0.045	12/01	0.020	10/02		0.065	
SBIR Assessment						0.179					0.179	
Subtotal Management						1.241		0.718			1.959	
Remarks:												
Total Cost				10.000		5.919		1.989			17.908	
Remarks:												

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APPROPRIATION/BUDGET ACTIVITY <b>RDTE&amp;E, N / BA-7</b>		PROGRAM ELEMENT NUMBER AND NAME 0702207N Depot Maintenance (Non-IF)				PROJECT NUMBER AND NAME H2451 P-3 SLAP					
COST (\$ in Millions)	Prior Year Cost		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	<b>49.304</b>		<b>17.830</b>	<b>6.794</b>	<b>5.130</b>	<b>2.896</b>					<b>81.954</b>
RDT&E Articles Qty											
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: Current P-3C aircraft fatigue life estimates (from 20,000 to 24,000 flight hours) are based on analysis alone. The P-3 Service Life Assessment Program (SLAP) will perform a full scale fatigue test on a P-3 test article in order to more accurately determine the aircraft fatigue life. After completion of the fatigue test, a destructive test will compare pre-test and post-test analyses. SLAP will identify specific components that require replacement or modification in order to extend the aircraft model's service life beyond its original fatigue life. NRE for fatigue limiting structures will be performed under SLAP to redesign these identified components. This SLAP effort was previously budgeted under APN-5 (BLI 053800) funding within OSIP 02-99.</p> <p>(U) PROGRAM ACCOMPLISHMENTS AND PLANS:</p> <p>1. FY 2001 ACCOMPLISHMENTS:</p> <ul style="list-style-type: none"> <li>(U) (\$16.003) Continued Fatigue testing.</li> <li>(U) (\$ .150) Continued to provide engineering, quality assurance, and cost schedule status reports. Prepared Service Life Extension Program (SLEP) drawings.</li> <li>(U) (\$ .613) Continued contract support services.</li> <li>(U) (\$ 1.064) Continued Naval Air Warfare Center (NAWC) field support.</li> </ul> <p>2. FY 2002 PLANS:</p> <ul style="list-style-type: none"> <li>(U) (\$5.671) Continue Fatigue testing.</li> <li>(U) (\$ .100) Continue to provide engineering, quality assurance, and cost/schedule status reports.</li> <li>(U) (\$ .212) Continue contract support services.</li> <li>(U) (\$ .605) Continue Naval Air Warfare Center (NAWC) field support.</li> <li>(U) (\$ .206) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.</li> </ul> <p>3. FY 2003 PLANS:</p> <ul style="list-style-type: none"> <li>(U) (\$4.468) Initiate Test Article Teardown, Fatigue Life Expended Rebaselining and Structural Data Recording Set (SDRS) Tracking Algorithm.</li> <li>(U) (\$ .050) Continue to provide engineering reports, quality assurance reports and cost/schedule status reports.</li> <li>(U) (\$ .142) Continue contract support services.</li> <li>(U) (\$ .470) Continue Naval Warfare Center (NAWC) field support.</li> </ul>											

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APPROPRIATION/BUDGET ACTIVITY <b>RDTE, N / BA-7</b>	PROGRAM ELEMENT NUMBER AND NAME 0702207N Depot Maintenance (Non-IF)	PROJECT NUMBER AND NAME H2451 P-3 SLAP																
<p>(U) B. PROGRAM CHANGE SUMMARY:</p> <table> <thead> <tr> <th></th> <th><u>FY2001</u></th> <th><u>FY2002</u></th> <th><u>FY2003</u></th> </tr> </thead> <tbody> <tr> <td>(U) FY2002 President's Budget:</td> <td>18.826</td> <td>6.855</td> <td></td> </tr> <tr> <td>(U) Adjustments from the FY2002 President's Budget:</td> <td>-0.996</td> <td>-0.061</td> <td></td> </tr> <tr> <td>(U) FY2003 President's Budget Submit:</td> <td>17.830</td> <td>6.794</td> <td>5.130</td> </tr> </tbody> </table> <p>CHANGE SUMMARY EXPLANATION:</p> <p>(U) Funding: The FY2001 net decrease of \$0.996 million consists of a decrease of \$0.606 million for a Small Business Innovative Research Assessment and a decrease of \$0.425 million for reprioritization of requirements within the Navy offset by an increase of \$0.035 million for Fatigue testing. The FY2002 decrease of \$0.061 million is for an undistributed congressional reduction.</p> <p>(U) Schedule: Not Applicable.</p> <p>(U) Technical: Not Applicable</p> <p>(U) C. OTHER PROGRAM FUNDING SUMMARY: Not Applicable</p>				<u>FY2001</u>	<u>FY2002</u>	<u>FY2003</u>	(U) FY2002 President's Budget:	18.826	6.855		(U) Adjustments from the FY2002 President's Budget:	-0.996	-0.061		(U) FY2003 President's Budget Submit:	17.830	6.794	5.130
	<u>FY2001</u>	<u>FY2002</u>	<u>FY2003</u>															
(U) FY2002 President's Budget:	18.826	6.855																
(U) Adjustments from the FY2002 President's Budget:	-0.996	-0.061																
(U) FY2003 President's Budget Submit:	17.830	6.794	5.130															

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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME		
RDT&E, N / BA-7	0702207N Depot Maintenance (Non-IF)	H2451 P-3 SLAP		
(U) D. ACQUISITION STRATEGY: SLAP was a full and open competition for a fatigue article test. The contract is a cost plus incentive fee (CPIF), therefore providing an incentive to the contractor to effectively manage program cost and schedule. Contract award was March 1999. SLAP supports the Secretary of the Navy's Maritime Patrol Aircraft Ten Year Plan.				
(U) E. SCHEDULE PROFILE:				
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>TO COMPLETE</u>
(U) Program Milestones				
(U) Engineering Milestones	2Q/01 SLEP Data Package	EP-3E Comp. Test 4Q/02	Fatigue Life Expended Rebaseline 3Q/03 SDRS Tracking Algorithm 4Q/03	
(U) T&E Milestones				
(U) Contract Milestones				

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Exhibit R-3 Cost Analysis (page 1)								DATE: February 2002				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME					
RDT&E, N / BA-7			0702207N Depot Maintenance (Non-IF)				H2451 P-3 SLAP					
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Systems Engineering	C/CPIF	LMAS, GA	45.113	16.153	12/00	5.771	12/01	4.518	12/02	2.585	74.140	74.140
Field Activity Support	WX	NAWCAD, Pax River, MD	2.869	1.064	12/00	0.605	12/01	0.470	12/02	0.245	5.253	
Subtotal Product Development			47.982	17.217		6.376		4.988		2.830	79.393	
Remarks:												
Subtotal Support												
Remarks:												

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<b>RD&amp;E, N / BA-7</b>			0702207N Depot Maintenance (Non-IF)			H2451 P-3 SLAP						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Subtotal T&E												
Remarks:												
Program Management Support	C/CPIF	Various	1.322	0.613	12/00	0.212	12/01	0.142	12/02	0.066	2.355	2.355
SBIR Assessment						0.206					0.206	
Subtotal Management			1.322	0.613		0.418		0.142		0.066	2.561	
Remarks:												
Total Cost			49.304	17.830		6.794		5.130		2.896	81.954	
Remarks:												

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APPROPRIATION/BUDGET ACTIVITY <b>RDTE&amp;E, N / BA-7</b>		PROGRAM ELEMENT NUMBER AND NAME <b>0702207N Depot Maintenance (Non-IF)</b>				PROJECT NUMBER AND NAME H 2452 S-3 SLAP					
COST (\$ in Millions)	Prior Year Cost		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	<b>34.052</b>		<b>5.082</b>								<b>39.134</b>
RDT&E Articles Qty											
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The S-3 Service Life Assessment Program (SLAP) (H2452) will determine the present S-3B fatigue life for 112 aircraft which were all procured from 1972-1976. The purpose is to validate the critical structures kit to ensure the aircraft meets its service life goal of FY 2015 and to determine the magnitude of the Service Life Extension Program (SLEP) necessary to extend service life beyond FY 2015. The SLAP will certify an increase of the aircraft fatigue life from 13,000 flight hours to approximately 17,500 flight hours and from 3,000 to 4,300 catapults/arrested landings. This SLAP effort was previously budgeted under APN-5 (BLI 054100) funding within OSIP 12-95.</p> <p>(U) PROGRAM ACCOMPLISHMENTS AND PLANS:</p> <ol style="list-style-type: none"> <li>FY 2001 Accomplishments: <ul style="list-style-type: none"> <li>(U) (\$ 4.799) Completed SLAP and Full Scale Fatigue Test (FSFT) efforts.</li> <li>(U) (\$ .283) Continued final field activity support for SLAP and Full Scale Fatigue Test (FSFT) efforts.</li> </ul> </li> <li>FY 2002 PLANS: Not Applicable.</li> <li>FY 2003 PLANS: Not Applicable.</li> </ol>											

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EXHIBIT R-2a, RDT&E Project Justification						DATE: <b>February 2002</b>																																			
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>		PROGRAM ELEMENT NUMBER AND NAME 702207N Depot Maintenance (Non-IF)			PROJECT NUMBER AND NAME H2452 S-3 SLAP																																				
<p>(U) B. PROGRAM CHANGE SUMMARY:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></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> </tr> </thead> <tbody> <tr> <td>(U) FY 2002 President's Budget:</td> <td style="text-align: center;">4.575</td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments from FY2002 President's Budget:</td> <td style="text-align: center;">0.507</td> <td></td> <td></td> </tr> <tr> <td>(U) FY 2003 President's Budget Submit:</td> <td style="text-align: center;">5.082</td> <td></td> <td></td> </tr> </tbody> </table> <p>CHANGE SUMMARY EXPLANATION:</p> <p>(U) Funding: The FY 2001 net increase of \$0.507 million consists of an increase of \$0.750 million for the continuation of SLAP/FSFT offset by a decrease of \$0.151 million for a Small Business Innovative Research assessment and a decrease of \$0.092 million for a reprioritization of requirements within the Navy.</p> <p>(U) Schedule: Not Applicable.</p> <p>(U) Technical: Not Applicable.</p> <p>(U) C. OTHER PROGRAM FUNDING SUMMARY:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>APPN</u></th> <th style="text-align: center;"><u>FY 2001</u> <u>Estimate</u></th> <th style="text-align: center;"><u>FY 2002</u> <u>Estimate</u></th> <th style="text-align: center;"><u>FY 2003</u> <u>Estimate</u></th> <th style="text-align: center;"><u>FY 2004</u> <u>Estimate</u></th> <th style="text-align: center;"><u>FY 2005</u> <u>Estimate</u></th> <th style="text-align: center;"><u>FY 2006</u> <u>Estimate</u></th> <th style="text-align: center;"><u>FY 2007</u> <u>Estimate</u></th> <th style="text-align: center;"><u>To Complete</u></th> </tr> </thead> <tbody> <tr> <td>APN S-3 (OSIP 12-95)</td> <td style="text-align: center;">6.897</td> <td style="text-align: center;">4.340</td> <td style="text-align: center;">2.500</td> <td style="text-align: center;">0.500</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </tbody> </table>									<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	(U) FY 2002 President's Budget:	4.575			(U) Adjustments from FY2002 President's Budget:	0.507			(U) FY 2003 President's Budget Submit:	5.082			<u>APPN</u>	<u>FY 2001</u> <u>Estimate</u>	<u>FY 2002</u> <u>Estimate</u>	<u>FY 2003</u> <u>Estimate</u>	<u>FY 2004</u> <u>Estimate</u>	<u>FY 2005</u> <u>Estimate</u>	<u>FY 2006</u> <u>Estimate</u>	<u>FY 2007</u> <u>Estimate</u>	<u>To Complete</u>	APN S-3 (OSIP 12-95)	6.897	4.340	2.500	0.500	0	0	0	0
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>																																						
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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
<b>RDTE, N / BA-7</b>	<b>0702207N Depot Maintenance (Non-IF)</b>	<b>H2452 S-3 SLAP</b>	
(U) D. ACQUISITION STRATEGY: The S-3 Service Life Assessment Program is a sole source procurement to the Original Equipment Manufacturer, Lockheed Martin of Marietta, GA. A CPIF contract was awarded October 1998.			
(U) E. SCHEDULE PROFILE:			
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u> <u>TO COMPLETE</u>
(U) Program Milestones			
(U) Engineering Milestones			
(U) T&E Milestones	Full Scale Test 1Q/01-4Q/01		
(U) Contract Milestones			

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Exhibit R-3 Cost Analysis (page 1)										DATE: February 2002		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME					
RDT&E, N / BA-7			0702207N Depot Maintenance (Non-IF)				H2452 S-3 SLAP					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
FULL SCALE FATIGUE TEST	SS/CPIF	LMAS/Marietta, GA	30.746	4.799	12/00						35.545	35.545
Subtotal Product Development			30.746	4.799							35.545	
Remarks:												
Subtotal Support												
Remarks:												



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CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)								DATE: <b>February 2002</b>				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
<b>RD&amp;E, N / BA-7</b>			702207N Depot Maintenance (Non-IF)			H2452 S-3 SLAP						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Subtotal T&E												
Remarks:												
Government Engineering Support	WX	NAWC AD	3.229	0.283	12/00						3.512	
Travel	WX		0.077								0.077	
Subtotal Management			3.306	0.283							3.589	
Total Cost			34.052	5.082							39.134	
Remarks:												

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Exhibit R-2, RD&E Budget Item Justification  
(Exhibit R-2, page 17 of 24)

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APPROPRIATION/BUDGET ACTIVITY <b>RDTE, N / BA-7</b>		PROGRAM ELEMENT NUMBER AND NAME 0702207N, Depot Maintenance (Non-IF)				PROJECT NUMBER AND NAME W2454, AN-ARC-210 RT-1794(C)					
COST (\$ in Millions)	Prior Year Cost		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	<b>7.241</b>		<b>0.527</b>	<b>0.735</b>							<b>8.503</b>
RDT&E Articles Qty											
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>Project W2454, AN/ARC-210 RT-1794(C): This project provides for the development of radio software modifications required for upgrades to the evolving standards. Annual engineering change proposals to accomplish implementation of additional advanced waveforms, have been planned to maintain interoperability/connectivity with other services, FAA and ICAO (commercial air traffic data links). Implementation of these waveforms is essential and will be accomplished in the Fleet by organizational units via the Memory Loader Verifier System (MLVS). These changes are the responsibility of the radio program for funding, management, and execution.</p> <p>(U) PROGRAM ACCOMPLISHMENTS AND PLANS:</p> <p>1. FY 2001 ACCOMPLISHMENTS:</p> <ul style="list-style-type: none"> <li>(U) (\$ .527) Developed upgrades and initiated Engineering Change Orders (ECO) to meet requirements for improved satellite communications data rates. Upgraded radio hardware to support increased processing and memory requirements allowing for incorporation of waveform upgrades via software. Updated waveforms will include Demand Assigned Multiple Access Satellite Communications (DAMA SATCOM) and digital battlefield interoperability and commercial air traffic management data links.</li> </ul> <p>2. FY 2002 PLANS:</p> <ul style="list-style-type: none"> <li>(U) (\$ .713) Complete software and hardware integration lab testing of radio operational software and hardware for acceptance of Demand Assigned Multiple Access Satellite Communications (DAMA SATCOM) and Air Traffic Management data links.</li> <li>(U) (\$ .022) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.</li> </ul> <p>3. FY 2003 PLANS: Not applicable.</p>											

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## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2002</b>																																		
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EXHIBIT R-2a, RDT&E Project Justification								DATE: <b>February 2002</b>			
APPROPRIATION/BUDGET ACTIVITY <b>RDTE, N / BA-7</b>		PROGRAM ELEMENT NUMBER AND NAME 0702207N Platform Follow-on Analysis				PROJECT NUMBER AND NAME W2737 Platform Follow-on Analysis					
COST (\$ in Millions)	Prior Years Cost		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	<b>1.699</b>		<b>3.898</b>								<b>5.597</b>
RDT&E Articles Qty											
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The Multi-mission Maritime Aircraft (MMA) program provides the replacement system(s) for the aging P-3/EP-3 aircraft. The MMA program is intended to meet the Broad Area Maritime and Littoral Armed Intelligence, Surveillance and Reconnaissance Mission Need Statement (MNS) which was validated by the Joint Requirements Oversight Council on 29 FEB 00. The MMA program received Milestone 0 approval to proceed into Concept Exploration (CE) on 22 MAR 2000. New start notification was provided to Congress and concept exploration activities began in June, 2000. These activities include an Analysis of Alternatives (AoA) and industry concept exploration studies. A Below Threshold Reprogramming was utilized to support FY2000 activities. FY2001 funding enables continuation and completion of the AoA and industry concept exploration studies.</p> <p>(U) PROGRAM ACCOMPLISHMENTS AND PLANS:</p> <p>1. FY 2001 ACCOMPLISHMENTS:</p> <p>(U) (\$ 1.193) Completed the MMA AoA.</p> <p>(U) (\$ 1.702) Initiated industry Concept Exploration studies for the MMA mission system.</p> <p>(U) (\$ 1.003) Provided engineering support for the MS I acquisition documentation, the AoA, and the industry Concept Exploration studies.</p> <p>2. FY 2002 PLANS: Not Applicable.</p> <p>3. FY 2003 PLANS: Not Applicable.</p>											

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EXHIBIT R-2a, RDT&E Project Justification		DATE:																
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME																
<b>RDTE, N / BA-7</b>	0702207N Platform Follow-on Analysis	W2737 Platform Follow-on Analysis																
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	<u>FY2001</u>	<u>FY2002</u>	<u>FY2003</u>															
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EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2002</b>																									
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>	PROGRAM ELEMENT NUMBER AND NAME 0702207N Platform Follow-on Analysis	PROJECT NUMBER AND NAME W2737 Platform Follow-on Analysis																									
<p>(U) D. ACQUISITION STRATEGY: MMA Milestone 0 was approved 22 March 2000 and the resulting Acquisition Decision Memorandum directed MMA to begin the CE phase consisting of an AoA and industry concept studies. These activities have begun and are scheduled to complete in late FY2001 at which time a MS I decision is scheduled, leading to a two-year program definition and risk reduction effort. MS II is scheduled for early FY2004. The MMA program is designed to meet the JROC validated MNS, "Broad Area Maritime and Littoral Armed Intelligence, Surveillance and Reconnaissance". The IOC of NLT 2015 is envisioned. The four FY2000 studies contracts will be competed in FY2001. Five mission system Concept Exploration studies will also be competed.</p> <p>(U) E. SCHEDULE PROFILE:</p> <table><thead><tr><th></th><th><u>FY 2001</u></th><th><u>FY 2002</u></th><th><u>FY 2003</u></th><th><u>TO COMPLETE</u></th></tr></thead><tbody><tr><td>(U) Program Milestones</td><td></td><td></td><td></td><td></td></tr><tr><td>(U) Engineering Milestones</td><td></td><td></td><td></td><td></td></tr><tr><td>(U) T&amp;E Milestones</td><td></td><td></td><td></td><td></td></tr><tr><td>(U) Contract Milestones</td><td colspan="4">Concept Exploration Contract Award 2Q/01</td></tr></tbody></table>				<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>TO COMPLETE</u>	(U) Program Milestones					(U) Engineering Milestones					(U) T&E Milestones					(U) Contract Milestones	Concept Exploration Contract Award 2Q/01			
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>TO COMPLETE</u>																							
(U) Program Milestones																											
(U) Engineering Milestones																											
(U) T&E Milestones																											
(U) Contract Milestones	Concept Exploration Contract Award 2Q/01																										

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## CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)										DATE: <b>February 2002</b>		
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>			PROGRAM ELEMENT 0702207N Platform Follow-on Analysis				PROJECT NUMBER AND NAME W2737 Platform Follow-on Analysis					
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
AOA	SS/FFP	CNA, VA		1.193	01/01						1.193	1.193
Derivative Concept Study	C/FFP	BOEING Seal Beach, CA	0.493								0.493	0.493
HYBRID Study	C/FFP	Northrup Grumman Bethpage, NY	0.490								0.490	0.490
Remanufacture Concept Study	C/FFP	Ratheon Greenville, TX	0.223								0.223	0.223
Remanufacture Concept Study	C/FFP	LOCKHEED Marietta, GA	0.493								0.493	0.493
Mission System Studies	C/FFP	TBD		0.417	05/01						0.417	0.417
Mission System Studies	C/FFP	TBD		0.417	05/01						0.417	0.417
Mission System Studies	C/FFP	TBD		0.418	05/01						0.418	0.418
Mission System Studies	C/FFP	TBD		0.417	05/01						0.417	0.417
Subtotal Product Development			1.699	2.862							4.561	
Remarks:												
Technical Support	C/FFP	RBC, VA		0.300	12/01						0.300	0.300
Subtotal Support				0.300							0.300	
Remarks:												

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Exhibit R-2, RD TEN Budget Item Justification  
(Exhibit R-2, page 23 of 24)

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## CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)								DATE: <b>February 2002</b>					
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME							
<b>RDTE, N / BA-7</b>			0702207N Platform Follow-on Analysis			W2737 Platform Follow-on Analysis							
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
Subtotal T&E													
Remarks:													
Contractor Engineering Support	WX	NAWCAD, PAX River, MD		0.736	12/01						0.736		
Subtotal Management				0.736							0.736		
Remarks:													
Total Cost			1.699	3.898							5.597		
Remarks:													

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Exhibit R-2, RDTE Budget Item Justification  
(Exhibit R-2, page 24 of 24)