

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: June 2001				
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-7						R-1 ITEM NOMENCLATURE 0702207N Depot Maintenance (Non-IF)					
COST (\$ in Millions)	Prior Year Cost	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Total PE Cost	49.549	42.822	38.394	13.568							
E3030 F-18 SLAP	0.000	0.000	10.000	5.972							
H2451 P-3 SLAP	27.762	21.542	18.826	6.854							
H2452 S-3 SLAP	16.148	17.896	4.575								
W2454 AN/ARC-210-RT-1794(C)	5.639	1.684	0.561	0.742							
W2737 Platform Follow-on Analysis		1.700	4.432								
Quantity of RDT&E Articles	Not Applicable										
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The F/A-18 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 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 results of the SLAP also provide justification for funding a Service Life Extension Program (SLEP) for fatigue limiting components. 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.</p> <p>(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.</p>											

R-1 SHOPPING LIST - Item No. 215

UNCLASSIFIED

Exhibit R-2, RDTEN Budget Item Justification
(Exhibit R-2, page 1 of 24)

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE: June 2001			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME					PROJECT NUMBER AND NAME					
RDT&E, N / BA-7	0702207N Depot Maintenance (Non-IF)					E3030 F-18 SLAP					
COST (\$ in Millions)	Prior Year Cost	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	0.000	0.000	10.000	5.972							
RDT&E Articles Qty											
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The F/A-18 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 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.</p> <p>(U) PROGRAM ACCOMPLISHMENTS AND PLANS:</p> <p>1. FY 2001 PLANS:</p> <ul style="list-style-type: none"> - (U) (\$7.204) Conduct analysis to determine Cat/Trap arrestment extension to 2,200 arrestments. Begin airframe testing to extend arrestment limit to 2,700. - (U) (\$2.352) Initiate Government Test and Evaluation in support of Cat/Trap arrestment analysis. - (U) (\$.444) Provide technical support for the Cat/Trap arrestment analysis. <p>2. FY 2002 PLANS</p> <ul style="list-style-type: none"> - (U) (\$3.193) Complete analysis to determine Cat/Trap arrestment extension to 2,200 arrestments. Continue airframe testing to extend arrestment limit to 2,700. Begin airframe testing to achieve structural capability for 14,500 total arrested landings. - (U) (\$2.211) Continue Government Test and Evaluation in support of Cat/Trap arrestment analysis. - (U) (\$.568) Provide technical support for the Cat/Trap arrestment analysis. 											

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<p>(U) B. PROGRAM CHANGE SUMMARY:</p> <table style="margin-left: 40px; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"></th> <th style="text-align: center;"><u>FY2000</u></th> <th style="text-align: center;"><u>FY2001</u></th> <th style="text-align: center;"><u>FY2002</u></th> </tr> </thead> <tbody> <tr> <td>(U) FY 2001 President's Budget:</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">0.000</td> </tr> <tr> <td>(U) Adjustments from the President's Budget:</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">10.000</td> <td style="text-align: center;">5.972</td> </tr> <tr> <td>(U) FY 2002 President's Budget Submit:</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">10.000</td> <td style="text-align: center;">5.972</td> </tr> </tbody> </table> <p>CHANGE SUMMARY EXPLANATION:</p> <p style="margin-left: 40px;">(U) Funding: The FY 2001 increase of \$10.000 million consists of a reprogramming of \$8.400 million from the F/A-18 Improvements Program (PE 0204136N, Project E1662) and a reprogramming of \$1.600 million from the F/A-18 Follow-On Variant Program (PE 0204136N, Project E2130) due to a reprioritization of requirements within the Navy. The FY 2002 increase of \$5.972 million is provided by a reprogramming of \$5.972 million from the F/A-18 Improvements Program due to a reprioritization of requirements within the Navy.</p> <p style="margin-left: 40px;">(U) Schedule: Not applicable.</p> <p style="margin-left: 40px;">(U) Technical: Not Applicable.</p> <p>(U) C. OTHER PROGRAM FUNDING SUMMARY:</p> <table style="margin-left: 40px; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Line Item No. & Name</u></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>APN-5 P.E 0204136N F/A-18 Squadrons OSIP (11-99) Service Life Management Program</td> <td style="text-align: center;">10.273</td> <td style="text-align: center;">1.946</td> <td style="text-align: center;">17.602</td> </tr> </tbody> </table> <p>Related RDT&E</p> <p>(U) P.E. 0204136N F/A-18 Squadrons (Project R1662: F/A-18 Improvements - High Order Language, Aft Crew Station Upgrade, ATFLIR, MIDS, JHMCS)</p>				<u>FY2000</u>	<u>FY2001</u>	<u>FY2002</u>	(U) FY 2001 President's Budget:	0.000	0.000	0.000	(U) Adjustments from the President's Budget:	0.000	10.000	5.972	(U) FY 2002 President's Budget Submit:	0.000	10.000	5.972	<u>Line Item No. & Name</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	APN-5 P.E 0204136N F/A-18 Squadrons OSIP (11-99) Service Life Management Program	10.273	1.946	17.602
	<u>FY2000</u>	<u>FY2001</u>	<u>FY2002</u>																							
(U) FY 2001 President's Budget:	0.000	0.000	0.000																							
(U) Adjustments from the President's Budget:	0.000	10.000	5.972																							
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APN-5 P.E 0204136N F/A-18 Squadrons OSIP (11-99) Service Life Management Program	10.273	1.946	17.602																							

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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)	E3030 F-18 SLAP															
<p>(U) D. 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 analyses of the main landing gear, arresting hook, and catapult backup structures. These analyses will provide for the development of aircraft rework necessary to extend total aircraft landings from 8,300 to 14,700 and catapults and arrestments from 2,000 to 2,700. SLAP is a FFP sole source contract to BOEING. Engineering Change Proposals generated by the SLAP analysis will be incorporated into the Service Life Extension Program (SLEP) under OSIP (11-99), Service Life Management Program.</p> <p>(U) E. SCHEDULE PROFILE:</p>																	
		1999	2000	2001	2002												
ID	Task Name	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1	Service Life Management Program																
2	Develop ECP-904 (CBR+ for WRFLE)																
3	ECP-904 Val / Ver (CBR+ for WRFLE)																
4	AFC-316 CBR+ SLEP (Restore 1.0 WRFLE)																
5	SLAP (Determine Cat/Trap Ext Rqmts)																

R-1 SHOPPING LIST - Item No. 215

UNCLASSIFIED

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Exhibit R-3 Cost Analysis (page 1)								DATE: June 2001				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-7			0702207N Platform Follow-on Analysis			E3030 F-18 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			Cost to Complete	Total Cost	Target Value of Contract
SLAP Contract	SS/FFP	BOEING, St Louis	0.000	7.204	06/01	3.017	11/01					10.221
SLAP Development	WX	NAWCAD, Pax River, MD	0.000			0.165	11/01					
Subtotal Product Development			0.000	7.204		3.182			0.000			
Remarks:												
Subtotal Support			0.000	0.000		0.000			0.000			
Remarks:												

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Exhibit R-3 Cost Analysis (page 2)									DATE: June 2001			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-7			0702207N Platform Follow-on Analysis			E3030 F-18 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			Cost to Complete	Total Cost	Target Value of Contract
Developmental Test and Evaluation	WX	NADEP, North Island, Ca	0.000	1.307	06/01	1.341	11/01					
Developmental Test and Evaluation	WX	NAWCAD, Pax River, MD	0.000	1.045	06/01	0.881	11/01					
Subtotal T&E			0.000	2.352		2.222			0.000			
Remarks:												
SLAP Contractor Sprt/Travel/Misc	Various	NAVAIR Pax River, MD	0.000	0.444	06/01	0.568	11/01					
Subtotal Management			0.000	0.444		0.568			0.000			
Remarks:												
Total Cost			0.000	10.000		5.972			0.000			
Remarks:												

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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					
COST (\$ in Millions)	Prior Year Cost	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	27.762	21.542	18.826	6.854							
RDT&E Articles Qty											
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The P-3 Service Life Assessment Program (SLAP) will perform Non-Recurring Engineering (NRE) for the P-3 Service Life Extension Program (SLEP). SLAP includes a fatigue article destructive test of a full scale P-3C, associated pre-test and post-test analyses, NRE for designing SLEP kits, and post-test disposal. SLEP is a fatigue life extension program that will extend operational service life by replacing fatigue limiting airframe components. Present fatigue life estimates (from 20,000 to 24,000 flight hours) are based on analysis alone. 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. 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 2000 ACCOMPLISHMENTS:</p> <ul style="list-style-type: none"> (U) (\$18.190) Initiated Fatigue article testing. (U) (\$.550) Provided engineering, quality assurance, and cost schedule status reports. Prepared SLEP drawings. (U) (\$ 1.043) Continued contract support services. (U) (\$ 1.759) Conducted wind tunnel testing. Continued Naval Air Warfare Center (NAWC) field support. <p>2. FY 2001 PLANS:</p> <ul style="list-style-type: none"> (U) (\$16.143) Continue Fatigue testing. (U) (\$.250) Continue to provide engineering, quality assurance, and cost schedule status reports. Prepare SLEP drawings. (U) (\$.613) Continue contract support services. (U) (\$ 1.214) Continue Naval Air Warfare Center (NAWC) field support. (U) (\$.606) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 68. 											

R-1 SHOPPING LIST - Item No. 215

UNCLASSIFIED

UNCLASSIFIED

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EXHIBIT R-2a, RDT&E Project Justification		DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY RDTE, N / BA-7	PROGRAM ELEMENT NUMBER AND NAME 0702207N Depot Maintenance (Non-IF)	PROJECT NUMBER AND NAME H2451 P-3 SLAP
<p>(U) PROGRAM ACCOMPLISHMENTS AND PLANS:</p> <p>3. FY 2002 PLANS:</p> <ul style="list-style-type: none">(U) (\$5.937) Continue Fatigue testing.(U) (\$.100) Continue to provide engineering, quality assurance, and cost/schedule status reports.(U) (\$.212) Continue contract support services.(U) (\$.605) Continue Naval Air Warfare Center (NAWC) field support.		

R-1 SHOPPING LIST - Item No. 215

UNCLASSIFIED

Exhibit R-2a, RDTE Project Justification
(Exhibit R-2a, page 8 of 24)

UNCLASSIFIED

CLASSIFICATION:

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7	PROGRAM ELEMENT NUMBER AND NAME 0702207N Depot Maintenance (Non-IF)	PROJECT NUMBER AND NAME H2451 P-3 SLAP																
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	<u>FY2000</u>	<u>FY2001</u>	<u>FY2002</u>															
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<p>(U) C. OTHER PROGRAM FUNDING SUMMARY: Not Applicable</p>																		

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<p>(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.</p>																							
<p>(U) E. SCHEDULE PROFILE:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 25%; text-align: center;"><u>FY 2000</u></th> <th style="width: 25%; text-align: center;"><u>FY 2001</u></th> <th style="width: 20%; text-align: center;"><u>FY 2002</u></th> </tr> </thead> <tbody> <tr> <td>(U) Program Milestones</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Engineering Milestones</td> <td>2Q/00 Conduct Fatigue Test Critical Design Review 2Q/00</td> <td>2Q/01 SLEP Data Package</td> <td>EP-3E Comp. Test 4Q/02</td> </tr> <tr> <td>(U) T&E Milestones</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Contract Milestones</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	(U) Program Milestones				(U) Engineering Milestones	2Q/00 Conduct Fatigue Test Critical Design Review 2Q/00	2Q/01 SLEP Data Package	EP-3E Comp. Test 4Q/02	(U) T&E Milestones				(U) Contract Milestones			
	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>																				
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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			Cost to Complete	Total Cost	Target Value of Contract
Systems Engineering	C/CPIF	LMAS, GA	45.113	16.393	12/00	6.037	12/01					74.690
Field Activity Support	WX	NAWCAD, Pax River, MD	2.869	1.214	12/00	0.605	12/01					
Subtotal Product Development			47.982	17.607		6.642						
Remarks:												
Subtotal Support			0.000	0.000		0.000						
Remarks:												

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Subtotal T&E			0.000	0.000		0.000						
Remarks:												
Program Management Support	C/CPIF	Various	1.322	0.613	12/00	0.212	12/01					
SBIR Assessment				0.606								
Subtotal Management			1.322	1.219		0.212						
Remarks:												
Total Cost			49.304	18.826		6.854						
Remarks:												

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Project Cost	16.148	17.896	4.575								
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 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> <p>1. FY 2000 ACCOMPLISHMENTS:</p> <p style="padding-left: 40px;">(U) (\$17.361) Continued SLAP/FSFT.</p> <p style="padding-left: 40px;">(U) (\$.535) Continued field activity support for SLAP/FSFT efforts.</p> <p>2. FY 2001 PLANS:</p> <p style="padding-left: 40px;">(U) (\$ 4.139) Complete SLAP/FSFT effort.</p> <p style="padding-left: 40px;">(U) (\$.285) Continue final field activity support for SLAP/FSFT.</p> <p style="padding-left: 40px;">(U) (\$.151) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 68.</p> <p>3. FY 2002 PLANS: Not Applicable.</p>											

R-1 SHOPPING LIST - Item No. 215

UNCLASSIFIED

Exhibit R-2a, RDTEN Project Justification
(Exhibit R-2a, page 13 of 24)

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: June 2001																								
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7	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="margin-left: auto; margin-right: auto; border: none;"> <thead> <tr> <th style="text-align: left;"></th> <th style="text-align: right;">FY 2000</th> <th style="text-align: right;">FY 2001</th> <th style="text-align: right;">FY 2002</th> </tr> </thead> <tbody> <tr> <td>(U) FY 2001 President's Budget:</td> <td style="text-align: right;">14.151</td> <td style="text-align: right;">4.624</td> <td></td> </tr> <tr> <td>(U) Adjustments from the President's Budget:</td> <td style="text-align: right;">3.745</td> <td style="text-align: right;">-0.049</td> <td></td> </tr> <tr> <td>(U) FY 2002 President's Budget Submit:</td> <td style="text-align: right;">17.896</td> <td style="text-align: right;">4.575</td> <td></td> </tr> </tbody> </table> <p>CHANGE SUMMARY EXPLANATION:</p> <p>(U) Funding: The FY 2000 net increase of \$3.745 million consists of an increase for Full Scale Fatigue Test (\$4.883 million) offset by a decrease for a Small Business Innovative Research Assessment (\$.333 million), a decrease for reprioritization of requirements within the Navy (\$.750 million), and a decrease of for a Congressional Recission (\$.055 million). The FY 2001 net decrease of \$.049 million consists of a decrease for a Congressional Reduction (\$.032 million), a decrease for a Congressional Recission (\$.010 million), and a decrease for reprioritization of requirements within the Navy (\$.007 million).</p> <p>(U) Schedule: Not Applicable.</p> <p>(U) Technical: Not Applicable.</p> <p>(U) C. OTHER PROGRAM FUNDING SUMMARY:</p> <table style="margin-left: auto; margin-right: auto; border: none;"> <thead> <tr> <th style="text-align: left;"><u>APPN</u></th> <th style="text-align: right;"><u>FY 2000</u> <u>Estimate</u></th> <th style="text-align: right;"><u>FY 2001</u> <u>Estimate</u></th> <th style="text-align: right;"><u>FY 2002</u> <u>Estimate</u></th> </tr> </thead> <tbody> <tr> <td>APN S-3 (OSIP 12-95)</td> <td style="text-align: right;">8.793</td> <td style="text-align: right;">12.306</td> <td style="text-align: right;">9.740</td> </tr> </tbody> </table>				FY 2000	FY 2001	FY 2002	(U) FY 2001 President's Budget:	14.151	4.624		(U) Adjustments from the President's Budget:	3.745	-0.049		(U) FY 2002 President's Budget Submit:	17.896	4.575		<u>APPN</u>	<u>FY 2000</u> <u>Estimate</u>	<u>FY 2001</u> <u>Estimate</u>	<u>FY 2002</u> <u>Estimate</u>	APN S-3 (OSIP 12-95)	8.793	12.306	9.740
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R-1 SHOPPING LIST - Item No. 215

UNCLASSIFIED

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EXHIBIT R-2a, RDT&E Project Justification		DATE: June 2001																				
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7	PROGRAM ELEMENT NUMBER AND NAME 0702207N Depot Maintenance (Non-IF)	PROJECT NUMBER AND NAME H2452 S-3 SLAP																				
<p>(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.</p> <p>(U) E. SCHEDULE PROFILE:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 35%;"></th> <th style="width: 20%; text-align: center;"><u>FY 2000</u></th> <th style="width: 20%; text-align: center;"><u>FY 2001</u></th> <th style="width: 25%; text-align: center;"><u>TO COMPLETE</u></th> </tr> </thead> <tbody> <tr> <td>(U) Program Milestones</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Engineering Milestones</td> <td style="text-align: center;">Test Fixture Design and Assembly 1Q/00-3Q/00</td> <td></td> <td></td> </tr> <tr> <td>(U) T&E Milestones</td> <td style="text-align: center;">Full Scale Test 4Q/00</td> <td style="text-align: center;">Full Scale Test 1Q/01-4Q/01</td> <td></td> </tr> <tr> <td>(U) Contract Milestones</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				<u>FY 2000</u>	<u>FY 2001</u>	<u>TO COMPLETE</u>	(U) Program Milestones				(U) Engineering Milestones	Test Fixture Design and Assembly 1Q/00-3Q/00			(U) T&E Milestones	Full Scale Test 4Q/00	Full Scale Test 1Q/01-4Q/01		(U) Contract Milestones			
	<u>FY 2000</u>	<u>FY 2001</u>	<u>TO COMPLETE</u>																			
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(U) Contract Milestones																						

R-1 SHOPPING LIST - Item No. 215

UNCLASSIFIED

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CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)								DATE: June 2001				
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			Cost to Complete	Total Cost	Target Value of Contract
FULL SCALE FATIGUE TEST	SS/CPIF	LMAS/Marietta, GA	30.746	4.290	12/00							35.036
Subtotal Product Development			30.746	4.290		0.000						35.036
Remarks:												
Subtotal Support			0.000	0.000		0.000						
Remarks:												

R-1 SHOPPING LIST - Item No.215

UNCLASSIFIED

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CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)								DATE: June 2001				
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7			PROGRAM ELEMENT 702207N Depot Maintenance (Non-IF)			PROJECT NUMBER AND NAME 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			Cost to Complete	Total Cost	Target Value of Contract
Subtotal T&E			0.000	0.000		0.000						
Remarks:												
Government Engineering Support	WX	NAWC AD	3.221	0.134	12/00							
Travel	WX		0.077									
SBIR Assessment				0.151								
Subtotal Management			3.298	0.285		0.000						
Remarks:												
Total Cost			34.044	4.575		0.000						
Remarks:												

R-1 SHOPPING LIST - Item No. 215

UNCLASSIFIED

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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE: June 2001			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7		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 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	5.639	1.684	0.561	0.742							
RDT&E Articles Qty											

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:
 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.

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. FY 2000 ACCOMPLISHMENTS:

- (U) (\$1.684) Developed upgrades and initiated Engineering Change Orders (ECO) to meet requirements for upgrades to MIL STD 188-220, variable message formatting, communications security and commercial air traffic management data link interoperability (VDL Mode 3).

2. FY 2001 PLANS:

- (U) (\$.561) Develop upgrades and initiate Engineering Change Orders (ECO) to meet requirements for improved satellite communications data rates. Upgrade 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.

3. FY 2002 PLANS:

- (U) (\$.742) 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.

R-1 SHOPPING LIST - Item No. 215

UNCLASSIFIED

Exhibit R-2a, RDTEN Project Justification
 (Exhibit R-2a, page 18 of 24)

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: June 2001																								
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7	PROGRAM ELEMENT NUMBER AND NAME 0702207N, Depot Maintenance (Non-IF)	PROJECT NUMBER AND NAME W2454, AN-ARC-210 RT-1794(C)																								
<p>(U) B. PROGRAM CHANGE SUMMARY: (Show total funding, schedule, and technical changes for the program element that have occurred since the last President's submission.</p> <table style="margin-left: 40px; border: none;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>FY2000</u></th> <th style="text-align: center;"><u>FY2001</u></th> <th style="text-align: center;"><u>FY2002</u></th> </tr> </thead> <tbody> <tr> <td>(U) FY 2001 President's Budget:</td> <td style="text-align: center;">1.723</td> <td style="text-align: center;">0.567</td> <td style="text-align: center;">0.752</td> </tr> <tr> <td>(U) Adjustments from the President's Budget:</td> <td style="text-align: center;">-0.039</td> <td style="text-align: center;">-0.006</td> <td style="text-align: center;">-0.010</td> </tr> <tr> <td>(U) FY 2002 President's Budget Submit:</td> <td style="text-align: center;">1.684</td> <td style="text-align: center;">0.561</td> <td style="text-align: center;">0.742</td> </tr> </tbody> </table> <p>CHANGE SUMMARY EXPLANATION:</p> <p>(U) Funding: The FY 2000 net decrease of \$.039 million consists of a \$.032 million decrease for a Small Business Innovative Research (SBIR) assessment and a \$.007 million decrease for a Congressional recission. The FY 2001 net decrease of \$.006 million consists of \$.005 million decrease for congressional recission and a \$.001 million decrease for reprioritization of requirements within the Navy. The FY 2002 net decrease of \$.010 million consists of \$.005 million decrease for economic assumptions and a \$.005 million decrease for 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="margin-left: 40px; border: none;"> <thead> <tr> <th style="text-align: left;"><u>Line Item No. & Name</u></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>46, Common Avionics, APN</td> <td style="text-align: center;">79.511</td> <td style="text-align: center;">70.448</td> <td style="text-align: center;">65.147</td> </tr> </tbody> </table> <p>(U) D. ACQUISITION STRATEGY: Sole source to Rockwell Collins, Inc. for the production and enhancement of the AN/ARC-210(V) Electronic Radio Protection radios.</p> <p>(U) E. SCHEDULE PROFILE: Not Applicable.</p>				<u>FY2000</u>	<u>FY2001</u>	<u>FY2002</u>	(U) FY 2001 President's Budget:	1.723	0.567	0.752	(U) Adjustments from the President's Budget:	-0.039	-0.006	-0.010	(U) FY 2002 President's Budget Submit:	1.684	0.561	0.742	<u>Line Item No. & Name</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	46, Common Avionics, APN	79.511	70.448	65.147
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46, Common Avionics, APN	79.511	70.448	65.147																							

R-1 SHOPPING LIST - Item No. 215

UNCLASSIFIED

UNCLASSIFIED

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EXHIBIT R-2a, RDT&E Project Justification								DATE: June 2001			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7	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 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost		1.700	4.432								
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 2000 ACCOMPLISHMENTS:</p> <ul style="list-style-type: none"> (U) (\$.493) Boeing studied the 737 derivative design concept for the airframe. (U) (\$.224) Raytheon studied the P-3 remanufacture design concept for the airframe. (U) (\$.493) Lockheed- Martin studied the P-3 remanufacture design concept for the airframe. (U) (\$.490) Northrup-Grumman studied the Hybrid Manned/Unmanned system for the airframe. <p>2. FY 2001 PLANS:</p> <ul style="list-style-type: none"> (U) (\$.496) Complete the MMA AoA. (U) (\$ 2.099) Initiate industry Concept Exploration studies for the MMA mission system. (U) (\$ 1.529) Provide engineering support for the MS I acquisition documentation, the AoA, and the industry Concept Exploration studies. (U) (\$.308) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 68. <p>3. FY 2002 PLANS: Not Applicable</p>											

R-1 SHOPPING LIST - Item No. 215

UNCLASSIFIED

Exhibit R-2a, RDTEN Project Justification
(Exhibit R-2a, page 20 of 24)

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: June 2001																
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7	PROGRAM ELEMENT NUMBER AND NAME 0702207N Platform Follow-on Analysis	PROJECT NUMBER AND NAME W2737 Platform Follow-on Analysis																
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R-1 SHOPPING LIST - Item No. 215

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7	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 indus 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 style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;"></th> <th style="width: 25%; text-align: center;"><u>FY 2000</u></th> <th style="width: 25%; text-align: center;"><u>FY 2001</u></th> <th style="width: 25%; text-align: center;"><u>FY 2002</u></th> <th style="width: 20%; text-align: center;"><u>TO COMPLETE</u></th> </tr> </thead> <tbody> <tr> <td>(U) Program Milestones</td> <td colspan="4">Approved 2Q/00 MS 0 - Concept Exploration Engineering Ops Analysis & Concept Evaluation</td> </tr> <tr> <td>(U) Engineering Milestones</td> <td colspan="4"></td> </tr> <tr> <td>(U) T&E Milestones</td> <td colspan="4"></td> </tr> <tr> <td>(U) Contract Milestones</td> <td>AoA Contract Award 3Q/00</td> <td>Concept Exploration Contract Award 2Q/01</td> <td colspan="2"></td> </tr> </tbody> </table>				<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>TO COMPLETE</u>	(U) Program Milestones	Approved 2Q/00 MS 0 - Concept Exploration Engineering Ops Analysis & Concept Evaluation				(U) Engineering Milestones					(U) T&E Milestones					(U) Contract Milestones	AoA Contract Award 3Q/00	Concept Exploration Contract Award 2Q/01		
	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>TO COMPLETE</u>																							
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(U) Engineering Milestones																											
(U) T&E Milestones																											
(U) Contract Milestones	AoA Contract Award 3Q/00	Concept Exploration Contract Award 2Q/01																									

R-1 SHOPPING LIST - Item No. 215

UNCLASSIFIED

UNCLASSIFIED

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)							DATE: June 2001					
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-7			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			Cost to Complete	Total Cost	Target Value of Contract
AOA	SS/FFP	CNA, VA		0.496	01/01							0.496
Derivative Concept Study	C/FFP	BOEING Seal Beach, CA	0.493									0.493
HYBRID Study	C/FFP	Northrup Grumman Bethpage, NY	0.490									0.490
Remanufacture Concept Study	C/FFP	Ratheon Greenville, TX	0.223									0.223
Remanufacture Concept Study	C/FFP	LOCKHEED Marietta, GA	0.493									0.493
Mission System Studies	C/FFP	TBD		0.481	05/01							0.481
Mission System Studies	C/FFP	TBD		0.481	05/01							0.481
Mission System Studies	C/FFP	TBD		0.481	05/01							0.481
Mission System Studies	C/FFP	TBD		0.481	05/01							0.481
Mission System Studies	C/FFP	TBD		0.483	05/01							0.483
SBIR Assessment				0.308								
Subtotal Product Development			1.699	3.211		0.000		0.000				
Remarks:												
Technical Support	C/FFP	RBC, VA		0.300	12/01							0.300
Subtotal Support			0.000	0.300		0.000		0.000				0.300
Remarks:												

UNCLASSIFIED

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)										DATE: June 2001		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-7			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			Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation												
Operational Test & Evaluation												
Tooling												
GFE												
Subtotal T&E			0.000	0.000		0.000		0.000				
Remarks:												
Contractor Engineering Support	WX	NAWCAD, PAX River, MD	0.001	0.921	12/01							
Government Engineering Support												
Program Management Support												
Travel												
Labor (Research Personnel)												
Overhead												
Subtotal Management			0.001	0.921		0.000		0.000				
Remarks:												
Total Cost			1.700	4.432		0.000		0.000				
Remarks:												