

CLASSIFICATION:

UNCLASSIFIED

EXHIBIT R-2, RDT&E Budget Item Justification							DATE:	
							February 2003	
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE			
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-7					0305207N Manned Reconnaissance Systems			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Total PE Cost	36.912	22.510	13.717	11.809	12.256	13.527	18.252	18.589
* Z0117 REEF POINT	6.938	8.096	11.890	11.809	12.256	13.527	18.252	18.589
** E2673 F/A-18E/F TACTICAL RECONNAISSANCE (SHARP)	26.020	14.414	1.827					
W9117 ADVANCED MULTIBAND SURVEILLANCE SYSTEMS	3.954							
* Executed at a higher level of classification - no project R2, project unit changed from R0117 to Z0117.								
** The FY 2002 budget reflects an \$6 million Congressional add for SHARP POD development and procurement executed under E2808.								
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:								
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: Provides funds for the development of a dual-spectral-band reconnaissance pod camera system capable of being deployed on tactical aircraft. The camera will have simultaneous visible and infrared imaging capability and provide digital images in national standard formats. The system will be capable of collecting imagery, recording on-board, and transmitting simultaneously to a ground receiving station. Cameras operating in multiple spectral bands will be introduced as the technology evolves. The target aircraft is the F/A-18E/F. A prototype system was flight demonstrated in June 2001. Provision will be made to accommodate transmission of Synthetic Aperture Radar (SAR) data. The system will operate semi-autonomously from the aircraft maximizing standard interfaces. Emphasis will be placed on using commercially available subsystems and components in an open architecture so that evolutionary designs in cameras, processors, transmitters, and recorders can be introduced seamlessly via competitive procurement procedures. An aggressive development schedule will be embraced driving toward an operational capability by May 2003. The purpose of the aggressive development schedule is to have an operational capability ready to replace the F-14 Tactical Air Reconnaissance Pod System (TARPS) due to retire beginning in 2003.								
(U) Details for project Z0117 are held at a higher classification.								

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**Exhibit R-2, RDTEN Budget Item Justification**  
(Exhibit R-2, page 1 of 15)

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EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2003</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>		PROGRAM ELEMENT NUMBER AND NAME 0305207N Manned Reconnaissance Systems			PROJECT NUMBER AND NAME E2673 F/A-18E/F Tactical Reconnaissance (SHARP)			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
	*	**						
Project Cost	26.020	14.414	1.827					

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

\* The FY 2002 budget reflects a \$6 million Congressional add for SHARP pod development and procurement.

\*\*The FY 2003 budget reflect a \$11.9 million Congressional add for F/A-18D Tactical Reconnaissance Aircraft Solid State Recorder Upgrades.

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The Shared Reconnaissance Pod (SHARP) provides funds for the development of a dual-spectral-band reconnaissance pod camera system capable of being deployed on tactical aircraft. The camera will have simultaneous visible and infrared imaging capability and provide digital images in national standard formats. The system will be capable of collecting imagery, recording on-board, and transmitting simultaneously to a ground receiving station. Cameras operating in multiple spectral bands will be introduced as the technology evolves. The target aircraft is the F/A-18E/F. A prototype system was flight demonstrated in June 2001. Provision will be made to accommodate transmission of Synthetic Aperture Radar (SAR) data. The system will operate semi-autonomously from the aircraft maximizing standard interfaces. Emphasis will be placed on using commercially available subsystems and components in an open architecture so that evolutionary designs in cameras, processors, transmitters, and recorders can be introduced seamlessly via competitive procurement procedures. An aggressive development schedule will be embraced driving toward an operational capability by May 2003.

In FY03 budget Congress appropriated \$11.9M for development and integration of solid state records in Advance Tactical Airbone Reconnaissance System (ATARS).

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<b>(U) B. Accomplishments/Planned Program</b>																			
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 25%;"></th><th style="width: 15%;">FY 02</th><th style="width: 15%;">FY 03</th><th style="width: 15%;">FY 04</th><th style="width: 15%;">FY 05</th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td style="text-align: center;">0.184</td><td style="text-align: center;">0.231</td><td style="text-align: center;">0.240</td><td></td></tr><tr><td>RDT&amp;E Articles Quantity</td><td></td><td></td><td></td><td></td></tr></tbody></table> <div style="border: 1px solid black; height: 60px; margin-top: 10px;"></div>						FY 02	FY 03	FY 04	FY 05	Accomplishments/Effort/Subtotal Cost	0.184	0.231	0.240		RDT&E Articles Quantity				
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<b>(U) B. Accomplishments/Planned Program</b>				
	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	4.982			
RDT&E Articles Quantity				
Complete integration and test of the SHARP EDM pod. Continue performing initial E3 testing, Carrier Suitability testing, and Initial Operation Testing to support Low Rate Initial Production.				
	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost		2.240		
RDT&E Articles Quantity				
Continue testing and integration of SHARP into the F/A-18E/F SCS.				
	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost		0.400		
RDT&E Articles Quantity				
Perform Operation Testing to support Full Rate Production.				

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	FY 02	FY 03	FY 04	FY 05															
Accomplishments/Effort/Subtotal Cost			1.436																
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	FY 02	FY 03	FY 04	FY 05															
Accomplishments/Effort/Subtotal Cost			0.151																
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	FY 02	FY 03	FY 04	FY 05															
Accomplishments/Effort/Subtotal Cost		11.543																	
RDT&E Articles Quantity																			

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>	PROGRAM ELEMENT NUMBER AND NAME 0305207N Manned Reconnaissance Systems	PROJECT NUMBER AND NAME E2673 F/A-18E/F Tactical Reconnaissance (SHARP)

**(U) C. PROGRAM CHANGE SUMMARY:**

	FY 2002	FY 2003	FY 2004
(U) Funding:			
Previous President's Budget:	27.180	2.871	1.882
Current BES/President's Budget	26.020	14.414	1.827
Total Adjustments	-1.160	11.543	-0.055
Summary of Adjustments			
Congressional program reductions			
Congressional undistributed reductions		-0.086	
Congressional rescissions	-0.047		
SBIR/STTR Transfer			
Economic Assumptions	-0.075	-0.271	-0.055
Reprogrammings	-1.038		
Other Navy/OSD Adjustments			
Congressional increases		11.900	
Subtotal	-1.160	11.543	-0.055

(U) Schedule:  
Not Applicable.

(U) Technical:  
Not Applicable.

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APPROPRIATION/BUDGET ACTIVITY <b>RDTE&amp;E, N / BA-7</b>		PROGRAM ELEMENT NUMBER AND NAME 0305207N Manned Reconnaissance Systems			PROJECT NUMBER AND NAME E2673 F/A-18E/F Tactical Reconnaissance (SHARP)					
<b>(U) D. OTHER PROGRAM FUNDING SUMMARY:</b>										
<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>
F/A-18E/FG (FIGHTER) HORNET (MYP) P1 Line Item 2	20.1	66.91	67.3	66.8						221.11
<b>(U) E. ACQUISITION STRATEGY:</b>										
<ol style="list-style-type: none"><li>1. The pod was procured with an order on a Cost Plus Fixed-Fee (CPFF)/IDIQ contract to Raytheon, Indianapolis.</li><li>2. The contract for the sensor, a Firm Fixed Price (FFP) option, and the engineering ILS support, a Cost Plus Incentive Fee (CPIF) option, are/will be procured competitively.</li><li>3 ATARS system was procured sole source through BAE.</li></ol>										

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Exhibit R-3 Cost Analysis (page 1)								DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-7			0305207N Manned Reconnaissance Systems			E2673 F/A-18E/F Tactical Reconnaissance (SHARP)						
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 HW Dev POD Prototype	SS/FP-LC	Raytheon, Indianapolis, IN	14.373								14.373	14.373
Ancillary HW Dev Sensor Prototype	C/FFP	VARIOUS	2.507								2.507	2.507
Ancillary HW Dev RMS Prototype	C/Plus	Space Dyn Lab, Logan , UT	3.500								3.500	3.500
Ancillary HW Dev Prototype	WX	NRL, Washington, DC	4.050								4.050	
Primary HW Dev POD EMD	SS/FP-LC	Raytheon, Indianapolis, IN	39.718								39.718	39.718
Ancillary HW Dev Sensor EMD	FFP/CPIF	Recon Optical, Barrington, IL	17.841								17.841	17.841
Ancillary HW Dev Datalink EMD	PD	SPAWAR, San Diego, CA	0.800								0.800	
Ancillary HW Dev / EMD Upgrades	WX	VARIOUS				0.151	11/03				0.151	
Primary HW Dev ATARS	SS/CPFF	BAE, NY		9.500	06/03							
Subtotal Product Development			82.789	9.500		0.151					92.440	
Remarks:												

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**Exhibit R-3, Project Cost Analysis**  
(Exhibit R-3, page 10 of 15)

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Exhibit R-3 Cost Analysis (page 2)								DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-7			Program Element (PE) No. and Name			0305207N Manned Reconnaissance Systems						
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	VARIOUS	VARIOUS	17.355								17.355	
Operational Test & Evaluation	WR	OPTEVFOR, Norfolk VA	0.033	0.400	11/02						0.433	
Subtotal T&E			17.388	0.400							17.788	
Remarks:												
Program Management Support	VARIOUS	VARIOUS	1.829								1.829	
Travel				0.031	10/02	0.040	10/03				0.071	
Subtotal Management			1.829	0.031		0.040					1.900	
Remarks:												
Total Cost			140.236	14.414		1.827					156.477	
Remarks:												

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Exhibit R-3, Project Cost Analysis  
(Exhibit R-3, page 11 of 15)

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\* Not required for Budget Activities 1, 2, 3, and 6

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Exhibit R-4a, Schedule Detail						DATE: <b>February 2003</b>		
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>	PROGRAM ELEMENT 0305207N Manned Reconnaissance Systems				PROJECT NUMBER AND NAME E2673 F/A-18E/F Tactical Reconnaissance (SHARP)			
Schedule Profile	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
Prototype Phase	1Q-4Q	1Q-4Q	1Q-4Q					
Milestone II (MSII)	3Q							
Preliminary Design Review (PDR)		1Q						
System Development	1Q-4Q	1Q-4Q	1Q-4Q					
Critical Design Review (CDR)			4Q					
Developmental Testing (DT-IIA)		1Q-4Q	1Q-4Q	1Q-4Q				
Eng Dev Model (EDM) SHARP Delivery			1Q-2Q					
Software Build Readiness Review (BRR)				4Q				
Software Delivery 1XXSW				4Q				
EDM SHARP Delivery				3Q-4Q	1Q-2Q			
Milestone III						2Q		
Low-Rate Initial Production I (LRIP I) Decision				1Q				
Software Delivery 2XXSW					1Q			
Developmental Testing (DT-IIB)				3Q-4Q	1Q-3Q			
Low-Rate Initial Production II Decision					1Q			
Operational Testing (OT-IIB)					4Q	1Q-2Q		
Functional Configuration Audit (FCA)					2Q			
Low-Rate Initial Production I Delivery					2Q			
Technical Evaluation (TECHEVAL)					3Q-4Q			
Physical Configuration Audit					3Q			
Operational Evaluation (OT-IIC) (OPEVAL)					4Q	1Q-2Q		
Low-Rate Initial Production II Delivery						2Q-3Q		
EOC					3Q			
IOC							3Q	
Full Rate Production (FRP) Decision						2Q		
Full Rate Production Start						2Q		
First Deployment					3Q			

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Exhibit R-4a, Schedule Detail  
(Exhibit R-4a, page 13 of 15)

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EXHIBIT R4, Schedule Profile																								DATE:											
APPROPRIATION/BUDGET ACTIVITY												PROGRAM ELEMENT NUMBER AND NAME												PROJECT NUMBER AND NAME											
RDT&E, N / BA-7												0305207N Manned Reconnaissance Systems												E2673 F/A-18E/F Tactical Reconnaissance (SHARP)											
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							
ATARS																																			
Contract Award							△																												
Development							▬																												
Test & Evaluation Milestones																																			
Development Test																																			
Operational Test																																			

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**Exhibit R-4a, Schedule Detail**  
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