

**UNCLASSIFIED**

**Exhibit R-2, RD TEN Budget Item Justification**  
(Exhibit R-2, page 1 of 9)

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: <b>February 2003</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY / BA-05</b>					R-1 ITEM NOMENCLATURE 0604312N Tri-Service Standoff Attack Missile (TSSAM)			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Total PE Cost	1.871	14.613	25.137	27.162	21.272	14.465	14.729	14.991
A2242 Joint Air to Surface Standoff Missile (JASSM)	1.871	14.613	25.137	27.162	21.272	14.465	14.729	14.991

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

The Joint Air to Surface Standoff Missile (JASSM) program is a follow-on weapon system to the canceled Tri-Service Standoff Attack Missile (TSSAM). It is a joint Air Force/Navy program. JASSM is a long range, conventional air-to-surface, autonomous precision guided, standoff cruise missile compatible with fighter and bomber aircraft and able to attack a variety of fixed and relocatable targets. JASSM will carry a 1,000 pound class penetrator warhead. Initial integration efforts will be on the B-52 and F-16. The F/A 18 E/F, C/D, S-3, P-3 and JSF are currently designated as Navy objective platforms for JASSM. Carrier Operability is one of the Key Performance Parameters (KPP) for JASSM. The EMD budget covers only the cost of Navy unique testing for the Carrier Operability KPP (FY02) and integration aboard the Navy F/A-18E/F including mission planning (FY03 and outyears). FY04 specific tasks are centered on completing JASSM wind tunnel tests with flight testing (loads and flying qualities tests) to begin in mid FY04. F/A-18E/F OFP (H4) implementation will begin in FY05 and run concurrently with flight test.

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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-05</b>	PROGRAM ELEMENT NUMBER AND NAME 0604312N Tri-Service Standoff Attack Missile (TSSAM)				PROJECT NUMBER AND NAME A2242 JASSM			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost	1.871	14.613	25.137	27.162	21.272	14.465	14.729	14.991
RDT&E Articles Qty		5	6	2	4			
<p><b>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b></p> <p>The Joint Air to Surface Standoff Missile (JASSM) program is a follow-on weapon system to the canceled Tri-Service Standoff Attack Missile (TSSAM). It is a joint Air Force/Navy program. JASSM is a long range, conventional air-to-surface, autonomous precision guided, standoff cruise missile compatible with fighter and bomber aircraft and able to attack a variety of fixed and relocatable targets. JASSM will carry a 1,000 pound class penetrator warhead. Initial integration efforts will be on the B-52 and F-16. The F/A 18 E/F, C/D, S-3, P-3 and JSF are currently designated as Navy objective platforms for JASSM. Carrier Operability is one of the Key Performance Parameters (KPP) for JASSM. The EMD budget covers only the cost of Navy unique testing for the Carrier Operability KPP (FY02) and integration aboard the Navy F/A-18E/F including mission planning (FY03 and outyears). FY04 specific tasks are centered on completing JASSM wind tunnel tests with flight testing (loads and flying qualities tests) to begin in mid FY04. F/A-18E/F OFP (H4) implementation will begin in FY05 and run concurrently with flight test.</p>								

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**Budget Item Justification**  
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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-05</b>	PROGRAM ELEMENT NUMBER AND NAME 0604312N Tri-Service Standoff Attack Missile (TSSAM)	PROJECT NUMBER AND NAME A2242 JASSM																	
<b>(U) B. Accomplishments/Planned Program</b>																			
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;"></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>JASSM EMD/ Carrier Operability</td><td style="text-align: center;">1.871</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>RDT&amp;E Articles Quantity</td><td></td><td></td><td></td><td></td></tr></tbody></table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">Funding for Lockheed Martin CLIN 1002 for Navy Carrier Operability unique requirements. Continued Government funding for Carrier Operability and ship suitability testing (Qual Navy Load Adapter, complete MIL-STD 461E EMI testing) in support of MS III in FY02.</div>						FY 02	FY 03	FY 04	FY 05	JASSM EMD/ Carrier Operability	1.871	0.000	0.000	0.000	RDT&E Articles Quantity				
	FY 02	FY 03	FY 04	FY 05															
JASSM EMD/ Carrier Operability	1.871	0.000	0.000	0.000															
RDT&E Articles Quantity																			
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;"></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>F/A-18E/F / JASSM Integration</td><td style="text-align: center;">0.000</td><td style="text-align: center;">14.613</td><td style="text-align: center;">25.137</td><td style="text-align: center;">27.162</td></tr><tr><td>RDT&amp;E Articles Quantity</td><td></td><td style="text-align: center;">5</td><td style="text-align: center;">6</td><td style="text-align: center;">2</td></tr></tbody></table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">F/A-18E/F integration to include Wind Tunnel tests, Carrier Suitability, Noise and Vibrations, Flying Qualities, Separation, E3, Performance Flight tests, Structural tests and purchase of test assets. Perform systems engineering, mission support, and Integrated Logistics Support (ILS) in order to achieve a successful OT and IOC. Integration on the F/A-18E/F includes aircraft Operational Flight Program (OFP) development, software development, test, verification and validation to implement the JASSM missile in software build H4. Also includes Mission Planning development for the JASSM missile on the Joint Mission Planning System (JMPS).</div>						FY 02	FY 03	FY 04	FY 05	F/A-18E/F / JASSM Integration	0.000	14.613	25.137	27.162	RDT&E Articles Quantity		5	6	2
	FY 02	FY 03	FY 04	FY 05															
F/A-18E/F / JASSM Integration	0.000	14.613	25.137	27.162															
RDT&E Articles Quantity		5	6	2															
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	FY 02	FY 03	FY 04	FY 05															

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EXHIBIT R-2a, RDT&E Project Justification			DATE: <b>Februrary 2003</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-05</b>	PROGRAM ELEMENT NUMBER AND NAME 0604312N Tri-Service Standoff Attack Missile (TSSAM)	PROJECT NUMBER AND NAME A2242 JASSM		

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

	FY 2002	FY 2003	FY 2004	FY 2005
(U) Funding:				
Previous President's Budget	1.929	14.943	25.869	27.799
Current President's Budget	1.871	14.613	25.137	27.162
Total Adjustments	-0.058	-0.330	-0.732	-0.637
Summary of Adjustments				
Congressional program reductions				
Congressional undistributed reductions		-0.087		
Congressional rescissions	-0.004			
SBIR/STTR Transfer	-0.009			
Economic Assumptions	-0.005	-0.243	-0.638	-0.612
Reprogrammings	-0.040			
Other Navy/OSD Adjustments			-0.094	-0.025
Congressional increases				
Subtotal	-0.058	-0.330	-0.732	-0.637

(U) Schedule:

Milestone III slipped from 2Q/03 to 1Q/04 due to a 10-month extension of the EMD period.

(U) Technical:

Not Applicable.

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EXHIBIT R-2a, RDT&E Project Justification								DATE:		
								February 2003		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME				
RDT&E, N / BA-05			0604312N Tri-Service Standoff Attack Missile (TSSAM)			A2242 JASSM				
(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
USAF, PAAF	41.988	50.095	101.101	145.401	148.578	197.633	303.200	309.200	1,210.395	2,507.591
USN, WPN	0	0	0	0	0	19.189	70.183	70.685	145.823	320.300
USAF, RDT&E U.S. Air Force P.E. 0207325F Joint Air to Surface Standoff Missile (JASSM)	82.793	51.047	31.216	45.897	61.640	13.637	0.000	0.000	0.000	
(U) E. ACQUISITION STRATEGY:										
All major contracts within the program were awarded through full and open competition. The EMD phase option for JASSM is Cost Plus Award Fee (CPAF). This contract type provides the Government the flexibility to periodically evaluate contractor performance while motivating the contractor to execute a successful program with emphasis on EMD schedule, system performance, and management effectiveness.										
JASSM is an OSD flagship program under Cost as An Independent Variable (CAIV). This allows the contractor to have maximum trade space to develop an affordable missile that meets the four Key Performance Parameters. Under CAIV, the program maintains a threshold AUPP of \$700,000 (BY95\$) and an objective AUPP of \$400,000 (BY95\$). The Government is buying the JASSM system based on a contractor developed, government-approved System Performance Specification (SPS) which became contractually binding at downselect. The contractor assumes Total System Performance Reliability (TSPR) as defined in the SPS and warrants system performance for 15 years. Accordingly, the contractor is responsible not only for the design of the missile system, but also for planning and executing the Development Test and Evaluation (DT&E) program to verify the missile system performance. In its role as facilitator and advisor to the contractor, the Government formally arranges and funds the use of Government flight test support for DT&E. Although funded by the Government, flight test support funds are part of the negotiated commitment between the contractor and the Government ensuring the contractor is able to execute the DT&E program according to the scope of the EMD contract. The Air Force has been funded in FY04 to begin development for an extended range version of JASSM.										

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Exhibit R-2a, RDTE&E Project Justification  
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## CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)										DATE: <b>February 2003</b>		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
<b>RDT&amp;E, N / BA-05</b>			0604312N Tri-Service Standoff Attack Missile (TSSAM)			A2242 JASSM						
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
JASSM Development	CPAF	Lockheed	2.606								2.606	2.606
AoA Support	Misc	Various	9.343								9.343	9.343
Aircraft Integration	WX	PMA-265	0.000	2.671	12/02	7.878	12/03	4.021	12/04	6.951	21.521	
Test Assets	CPAF	Lockheed	0.000	4.000	02/03	2.400	12/03	6.600	12/04	2.000	15.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
Award Fees	CPAF	Lockheed	0.402								0.402	0.402
Subtotal Product Development			12.351	6.671		10.278		10.621		8.951	48.872	
Remarks:												
Weapon Systems Engineering	CPAF	Lockheed	0.632	4.500	02/03	3.200	12/03	3.800	12/04	6.800	18.932	18.932
JMPS Software Development	Misc	Various	0.000	0.000		1.500	12/03	5.500	12/04	8.500	15.500	
Government Engineering Support	Misc	Various	1.033	1.659	12/02	2.217	12/03	2.630	12/04	10.842	18.381	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
Subtotal Support			1.665	6.159		6.917		11.930		26.142	52.813	
Remarks:												

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Exhibit R-3, RD TEN Project Justification  
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Exhibit R-3 Cost Analysis (page 2)										DATE: <b>February 2003</b>		
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-05</b>			PROGRAM ELEMENT 0604312N Tri-Service Standoff Attack Missile (TSSAM)			PROJECT NUMBER AND NAME A2242 JASSM						
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	WX	NAWCAD & WD	0.000	0.800	12/02	6.534	12/03	2.930	12/04	13.999	24.263	
Operational Test & Evaluation	Misc	Various	0.050	0.000		0.000		0.000		3.400	3.450	
											0.000	
											0.000	
											0.000	
Award Fees											0.000	
Subtotal T&E			0.050	0.800		6.534		2.930		17.399	27.713	
Remarks:												
Contractor Engineering Support	RX	NAWCAD	0.161	0.360	12/02	0.360	12/03	0.360	12/04	5.720	6.961	
Program Management Support	Misc	Various	0.053	0.598	12/02	1.023	12/03	1.296	12/04	6.700	9.670	
Travel	WX	NAWCAD	0.000	0.025	12/02	0.025	12/03	0.025	12/04	0.545	0.620	
											0.000	
											0.000	
SBIR Assessment											0.000	
Subtotal Management			0.214	0.983		1.408		1.681		12.965	17.251	
Remarks:												
Total Cost			14.280	14.613		25.137		27.162		65.457	146.649	
Remarks:												

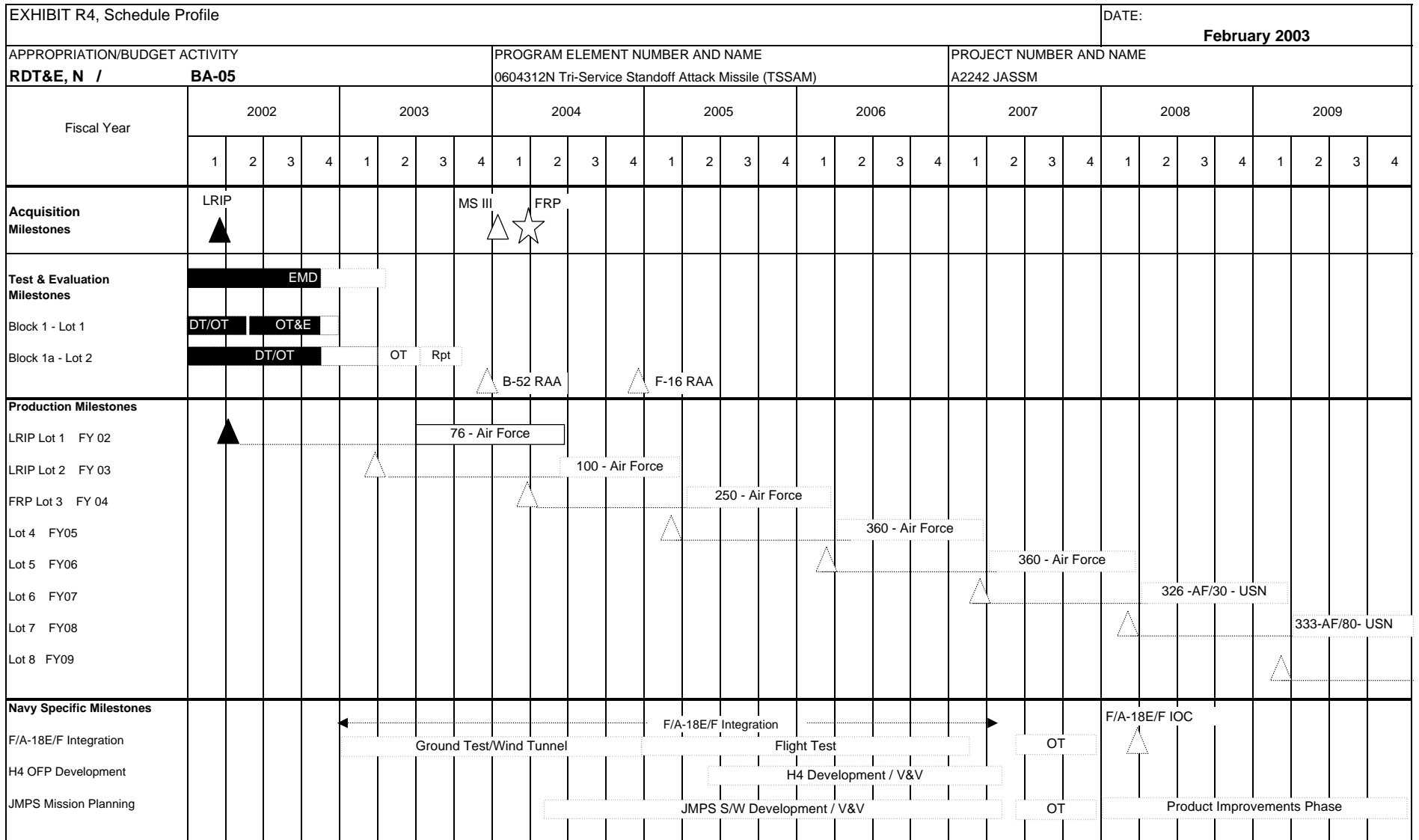
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Exhibit R-3, RDTEN Project Justification  
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\* Not required for Budget Activities 1, 2, 3, and 6

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Exhibit R-4, Schedule Profile  
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Exhibit R-4a, Schedule Detail						DATE: February 2003		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT				PROJECT NUMBER AND NAME			
RDT&BA-05	0604312N Tri-Service Standoff Attack Missile (TSSAM)				A2242 JASSM			
Schedule Profile	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Start Low-Rate Initial Production I (LRIP Lot 1)	2Q							
Block 1 Combined DT/OT	1Q-2Q							
Block 1 OT	2Q-4Q							
Block 1a Combined DT/OT	1Q-4Q	1Q						
Block 1a OT		2Q						
Start Low-Rate Initial Production II (LRIP Lot 2)		1Q						
Low-Rate Initial Production I Delivery		2Q-4Q	1Q-2Q					
Low-Rate Initail Production II Delivery			2Q-4Q	1Q				
Milestone III (MS III)			1Q					
IOC								
Required Assets Available (RAA) B-52		4Q						
Required Assets Available (RAA) F-16			4Q					
Full Rate Production (FRP) Decision			1Q					
First Deployment (Air Force)		4Q						
First Deployment (Navy)							1Q	
Lot 4 Award				1Q				
Lot 4 Delivery					2Q-4Q	1Q		
Lot 5 Award					1Q			
Lot 5 Delivery						2Q-4Q	1Q	
Lot 6 Award						1Q		
Lot 6 Delivery							2Q-4Q	1Q
Lot 7 Award							1Q	
Lot 7 Delivery								2Q-4Q
Lot 8 Award								1Q
Navy Specific Schedule Profile								
F/A-18E/F Integration		1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q		
Ground Test/Wind Tunnel		2Q-4Q	1Q-4Q					
Flight Test			4Q	1Q-4Q	1Q-4Q	1Q		
F/A-18 Operational Flight Program (H4)				2Q-4Q	1Q-4Q	1Q		
Joint Mission Planning Program (JMPS)			2Q-4Q	1Q-4Q	1Q-4Q	1Q		
JASSM / F/A-18E/F OT						2Q-4Q		
JASSM / F/A-18E/F IOC							1Q	
Product Improvements Phase							1Q-4Q	1Q-4Q

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Exhibit R-4a, Schedule Detail  
(Exhibit R-4a, page 9 of 9)