

## UNCLASSIFIED

PE NUMBER: 0207325F

PE TITLE: Joint Air-to-Surface Standoff Missile (JASSM)

## Exhibit R-2, RDT&amp;E Budget Item Justification

DATE

February 2005

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207325F Joint Air-to-Surface Standoff Missile (JASSM)

Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	25.498	45.374	66.997	30.696	9.788	0.000	0.000	0.000	0.000	1,056.505
4515 Joint Air-to-Surface Standoff Missile (JASSM)	25.498	45.374	66.997	30.696	9.788	0.000	0.000	0.000	0.000	1,056.505

The FY03 National Defense Authorization Act language directed Test & Evaluation (T&E) centers to charge only direct costs beginning in FY06. This resulted in a zero balance transfer (ZBT) of funding over the FYDP from the customer accounts (for indirect test costs) to T&E support, PE 65807F.

(U) **A. Mission Description and Budget Item Justification**

JASSM is an Air Force program designated ACAT 1C by the Defense Acquisition Board (DAB) during the Low Rate Initial Production (LRIP) decision. This program provides an affordable long range, conventional air-to-surface, autonomous, precision guided, standoff cruise missile compatible with fighter and bomber aircraft able to attack a variety of fixed or relocatable targets. Initial integration efforts are for the B-52H and F-16 (Block 50). Objective aircraft include the B-1, B-2, F-15E, F-16 (Block 40), F-117, and F/A-18E/F. The JASSM-ER increased standoff range will allow us to attack high value targets with precision, deeper into enemy territory while minimizing the threat to the launch aircraft. Follow-on development/Component Upgrades include two-way communications and Time Sensitive Targeting (e.g. Data Link) Capabilities. 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. 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 Responsibility (TSPR) as defined in the SPS and warrants system performance for 15 years. In late Summer/Fall 2004, OSD/Air Force convened an independent Reliability Enhancement Team (RET) to review JASSM processes, system engineering procedures, and investigate reliability/quality initiatives. The Air Force is implementing RET recommendations through a combination of detailed design analysis, production quality reviews, and comprehensive ground and flight testing. This activity is reflected in Budget Activity 7, Operational Systems Development, because production (Low Rate Initial Production) started in FY02.

(U) **B. Program Change Summary (\$ in Millions)**

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	25.498	45.777	61.473	13.609
(U) Current PBR/President's Budget	25.498	45.374	66.997	30.696
(U) Total Adjustments	0.000	-0.403		
(U) Congressional Program Reductions		-0.403		
Congressional Rescissions				
Congressional Increases				
Reprogrammings				
SBIR/STTR Transfer				

(U) **Significant Program Changes:**

Funding: FY06 funding increased by net \$5.5M (\$13M add Data Link; \$7.5M decrease for T&E funding realignment), and FY07 increased by net \$17.1M (\$20M add Data

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<p>Link; \$2.9M decrease for T&amp;E funding realignment) for JASSM Data Link (component upgrade) development and flight testing. Schedule: None. Technical: None.</p>		

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## Exhibit R-2a, RDT&amp;E Project Justification

DATE

February 2005

BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0207325F Joint Air-to-Surface Standoff Missile (JASSM)			PROJECT NUMBER AND TITLE 4515 Joint Air-to-Surface Standoff Missile (JASSM)		
Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
4515 Joint Air-to-Surface Standoff Missile (JASSM)	25.498	45.374	66.997	30.696	9.788	0.000	0.000	0.000	0.000	1,056.505
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) **A. Mission Description and Budget Item Justification**

JASSM is an Air Force program designated ACAT 1C by the Defense Acquisition Board (DAB) during the Low Rate Initial Production (LRIP) decision. This program provides an affordable long range, conventional air-to-surface, autonomous, precision guided, standoff cruise missile compatible with fighter and bomber aircraft able to attack a variety of fixed or relocatable targets. Initial integration efforts are for the B-52H and F-16 (Block 50). Objective aircraft include the B-1, B-2, F-15E, F-16 (Block 40), F-117, and F/A-18E/F. The JASSM-ER increased standoff range will allow us to attack high value targets with precision, deeper into enemy territory while minimizing the threat to the launch aircraft. Follow-on development/Component Upgrades include two-way communications and Time Sensitive Targeting (e.g. Data Link) Capabilities. 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. 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 Responsibility (TSPR) as defined in the SPS and warrants system performance for 15 years. In late Summer/Fall 2004, OSD/Air Force convened an independent Reliability Enhancement Team (RET) to review JASSM processes, system engineering procedures, and investigate reliability/quality initiatives. The Air Force is implementing RET recommendations through a combination of detailed design analysis, production quality reviews, and comprehensive ground and flight testing. This activity is reflected in Budget Activity 7, Operational Systems Development, because production (Low Rate Initial Production) started in FY02.

(U) **B. Accomplishments/Planned Program (\$ in Millions)**

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) JASSM EMD conclusion and follow-on development activities, including component upgrades studies/development.	4.084	2.211	0.000	0.000
(U) JASSM-ER Phase II development.	15.751	31.414	31.603	4.987
(U) JASSM Data Link (component upgrade)	0.000	0.000	11.703	16.432
(U) Begin JASSM-ER flight testing. Continue ground and live fire test support, and Reliability Program.	2.441	3.767	14.813	4.771
(U) JASSM-ER wind tunnel test support.	1.632	3.702	0.000	0.000
(U) Continue JASSM-ER aircraft integration on B-1.	0.100	2.497	7.551	3.335
(U) Continue mission planning and intelligence systems integration.	0.580	0.551	0.000	0.000
(U) Continue program office/mission support.	0.910	1.232	1.327	1.171
(U) Total Cost	25.498	45.374	66.997	30.696

## Exhibit R-2a, RDT&amp;E Project Justification

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## BUDGET ACTIVITY

07 Operational System Development

## PE NUMBER AND TITLE

0207325F Joint Air-to-Surface  
Standoff Missile (JASSM)

## PROJECT NUMBER AND TITLE

4515 Joint Air-to-Surface Standoff  
Missile (JASSM)(U) **C. Other Program Funding Summary (\$ in Millions)**

	<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>FY 2010</u>	<u>FY 2011</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) Missile Procurement (AF) JASSM	100.869	136.495	150.238	200.707	309.688	317.107	248.724	199.950	1,774.202	3,532.861
(U) SEEK EAGLE	0.000	2.826	0.000	2.899	0.000	0.000			0.000	5.725
Total includes prior year not shown.										

(U) **D. Acquisition Strategy**

All major contracts within this Program Element were awarded through full and open competition. The EMD phase option for JASSM is Cost Plus Award Fee (CPAF). JASSM-ER is being developed in two phases: Phase I Risk Reduction and Phase II Development. The Phase I Risk Reduction contract is a Firm Fixed Price (FFP) contract awarded June 2003. This phase was completed March 2004. The Phase II Development contract is a CPAF contract awarded Feb 2004.

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Exhibit R-3, RDT&E Project Cost Analysis												DATE February 2005		
BUDGET ACTIVITY 07 Operational System Development						PE NUMBER AND TITLE 0207325F Joint Air-to-Surface Standoff Missile (JASSM)						PROJECT NUMBER AND TITLE 4515 Joint Air-to-Surface Standoff Missile (JASSM)		
(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2004 Cost</u>	<u>FY 2004 Cost</u>	<u>FY 2004 Award Date</u>	<u>FY 2005 Cost</u>	<u>FY 2005 Award Date</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u> MDA - PDRR I	C/CPFF	McDonnell Douglas Aircraft, MO	120.571	0.000	N/A	0.000	N/A	0.000	N/A	0.000	N/A	0.000	120.571	120.571
LM - PDRR I & II	C/CPFF	Lockheed Martin, FL	151.109	0.000	N/A	0.000	N/A	0.000	N/A	0.000	N/A	0.000	151.109	151.109
LM - EMD & Follow on Development	C/CPAF	Lockheed Martin, FL	404.944	4.084	Nov-98	2.211	Nov-98	0.000	N/A	0.000	N/A	0.000	411.239	411.239
LM - JASSM ER Risk Reduction Phase I	SS/FFP	Lockheed Martin, FL	9.628	0.000	N/A	0.000	N/A	0.000	N/A	0.000	N/A	0.000	9.628	9.628
LM - JASSM ER Development Phase II	SS/CPAF	Lockheed Martin, FL	4.000	15.751	Feb-04	31.414	Feb-04	31.603	Feb-04	4.987	Feb-04	0.000	87.755	87.755
Data Link (Component Upgrade)	SS/CPFF	Lockheed Martin, FL	0.000	0.000	N/A	0.000	N/A	11.703	Jan-06	16.432	Jan-06	7.423	35.558	35.558
Subtotal Product Development			690.252	19.835		33.625		43.306		21.419		7.423	815.860	815.860
Remarks:														
(U) <u>Support</u> F-16 SPO	PO (in-house)	WPAFB, OH	26.588	0.000	N/A	0.000	N/A	0.000	N/A	0.000	N/A	0.000	26.588	26.588
B-52 SPO	PO (in-house)	Tinker AFB, OK	31.229	0.000	N/A	0.000	N/A	0.000	N/A	0.000	N/A	0.000	31.229	31.229
B-1 SPO	PO (in-house)	WPAFB, OH	0.000	0.100	N/A	2.497	N/A	7.551	N/A	3.335	N/A	0.000	13.483	13.483
Other Acft Integ	PO (in-house)	various	3.463	0.000	N/A	0.000	N/A	0.000	N/A	0.000	N/A	0.000	3.463	3.463
Sverdrup Inc.	C/CPAF	Eglin AFB, FL	15.952	0.000	N/A	0.000	N/A	0.216	Feb-05	0.216	Feb-05	0.216	16.600	16.600
Other Support	Misc	various	33.687	1.490	N/A	1.783	N/A	1.111	N/A	0.955	N/A	0.756	39.782	39.782
Subtotal Support			110.919	1.590		4.280		8.878		4.506		0.972	131.145	131.145
Remarks:														
(U) <u>Test &amp; Evaluation</u> 46TW	PO (in-house)	Eglin AFB, FL	76.981	2.441	N/A	3.767	N/A	14.813	N/A	4.771	N/A	1.393	104.166	104.166
Arnold Eng Dev Center	PO (in-house)	Arnold AFB, TN	0.000	1.632	N/A	3.702	N/A	0.000	N/A	0.000	N/A	0.000	5.334	5.334
Subtotal Test & Evaluation			76.981	4.073		7.469		14.813		4.771		1.393	109.500	109.500
Remarks:														
(U) Total Cost			878.152	25.498		45.374		66.997		30.696		9.788	1,056.505	1,056.505
Project 4515			R-1 Shopping List - Item No. 143-6 of 143-8								Exhibit R-3 (PE 0207325F)			

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## Exhibit R-4, RDT&amp;E Schedule Profile

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BUDGET ACTIVITY

07 Operational System Development

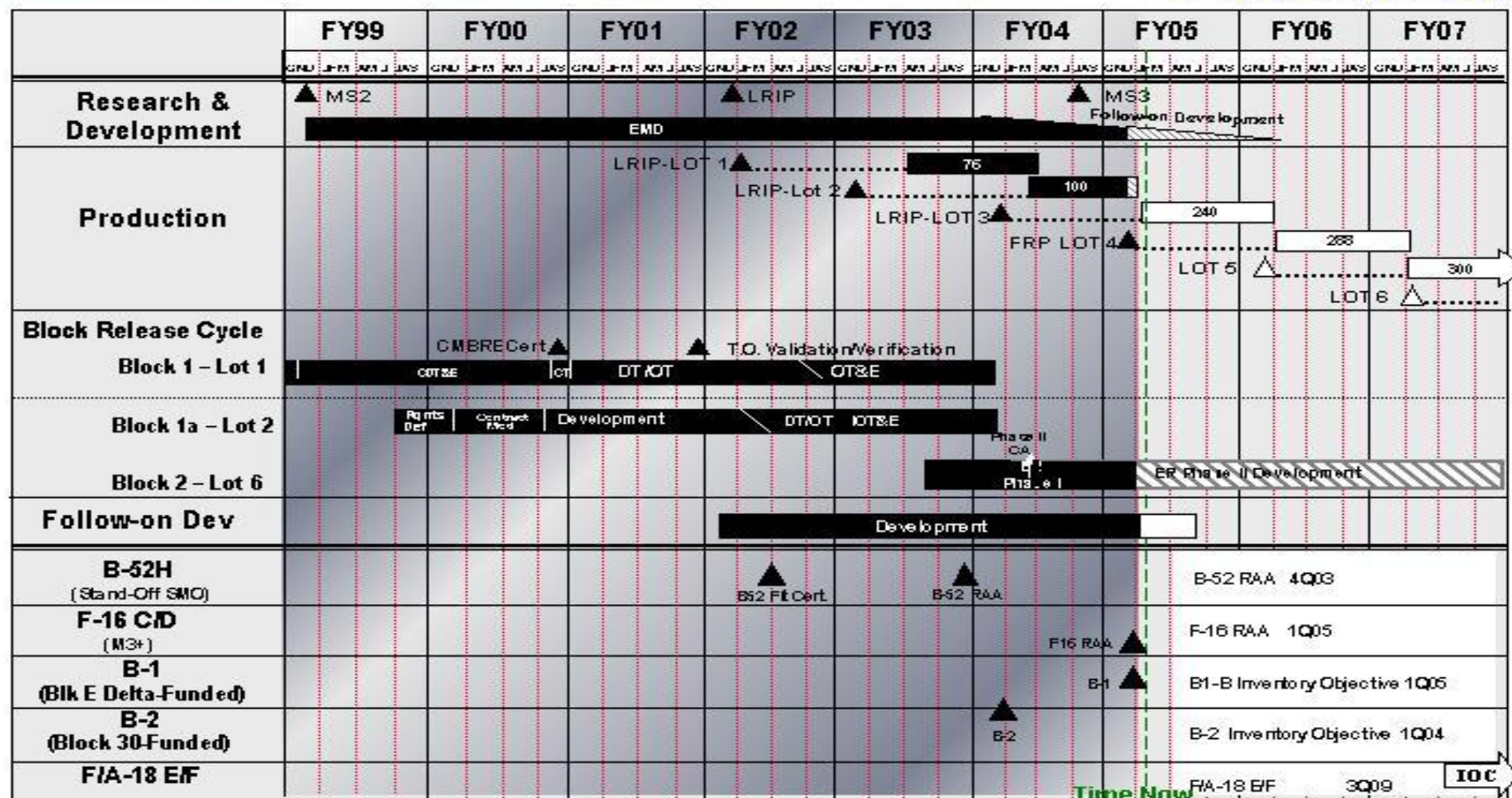
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4515 Joint Air-to-Surface Standoff  
Missile (JASSM)

As of 13 Jan 05

*Top Level JASSM Schedule**For Official Use Only*

Project 4515

R-1 Shopping List - Item No. 143-7 of 143-8

Exhibit R-4 (PE 0207325F)

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## Exhibit R-4a, RDT&amp;E Schedule Detail

DATE

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BUDGET ACTIVITY

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PROJECT NUMBER AND TITLE

4515 Joint Air-to-Surface Standoff  
Missile (JASSM)(U) Schedule ProfileFY 2004FY 2005FY 2006FY 2007

(U) Inventory Objective B-2

1Q

(U) JASSM-ER Development Phase II Contract Award

2Q

(U) JASSM-ER Risk Reduction Phase I Complete

3Q

(U) Milestone III

4Q

(U) F-16 RAA

1Q

(U) Inventory Objective B-1

1Q

(U) Complete JASSM-ER wind tunnel testing

3Q

(U) Begin JASSM-ER Flight Testing

1Q

(U) Data Link (component upgrade) Contract Award

2Q

(U) JASSM-ER OT Flight Testing

3Q