

UNCLASSIFIED

PE NUMBER: 0207325F

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

Exhibit R-2, RDT&E Budget Item Justification	DATE May 2009
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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0207325F Joint Air-to-Surface Standoff Missile (JASSM)
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Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	11.775	32.946	29.494	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
4515 Joint Air-to-Surface Standoff Missile (JASSM)	11.775	4.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,053.780
5356 JASSM Extended Range (JASSM-ER)	0.000	28.946	20.548	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
5357 JASSM Anti Surface Warfare (ASuW)	0.000	0.000	8.946	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

FY10 is the first year this PE is broken out in 3 projects given above. Last year all RDT&E was funded in project 4515.

(U) A. Mission Description and Budget Item Justification

The Joint Air-to-Surface Standoff Missile (JASSM) is an Air Force program designated ACAT 1D in Jun 2007. This program provides a 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. Aircraft integration is complete on the B-52H, F-16 (Block 50), B-1, and B-2. Objective aircraft include the F-15E, F-16 (Block 40), F-35, and F/A-18E/F. The Air Force is buying the JASSM system based on a contractor-developed, government-approved System Performance Specification (SPS), this SPS is on contract. The contractor assumes total system performance responsibility (TSPR) for Lots 1-6 as defined in the SPS; for Lot 7 and beyond, the Air Force has approval authority of Class I configuration changes.

On 1 May, 2008, the Defense Acquisition Executive (DAE) completed its Nunn-McCurdy review of the JASSM program and certified a restructured program to consist of two separable increments, the JASSM Baseline increment and the JASSM-Extended Range (JASSM-ER) increment--both with improved reliability, separate milestone decision points and separate projects within a single program element. DAE also directed the Air Force to begin requirements definition on a JASSM Anti-Surface Warfare (ASuW) enhancement, separate from the JASSM Baseline and JASSM-ER increments. This year, the program element has been broken out into 3 projects given above.

This activity is reflected in Budget Activity 7, Operational Systems Development, because JASSM Baseline production (Low Rate Initial Production) started in FY02.

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget	12.074	13.035	0.000
(U) Current PBR/President's Budget	11.775	32.946	29.494
(U) Total Adjustments	-0.299	19.911	
(U) Congressional Program Reductions	0.000	0.000	
Congressional Rescissions	0.000	-0.089	
Congressional Increases	0.000	20.000	
Reprogrammings	0.000	0.000	
SBIR/STTR Transfer	-0.299	0.000	

(U) **Significant Program Changes:**

Funding: In FY09, Congress added \$20M to continue JASSM-ER development and testing. In FY 2010, formally added two new projects: JASSM-Extended Range (ER), and JASSM ASuW. In FY10, added funding for continuing JASSM-ER development and starting JASSM ASuW.

Exhibit R-2a, RDT&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)		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
4515 Joint Air-to-Surface Standoff Missile (JASSM)	11.775	4.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,053.780
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

Funding shown in FY08 is for JASSM and JASSM-ER development activities. In FY09 and beyond, JASSM-ER is separated into its own project.

(U) A. Mission Description and Budget Item Justification

The Joint Air-to-Surface Standoff Missile (JASSM) is an Air Force program designated ACAT 1D in Jun 2007. This program provides a 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. Aircraft integration is complete on the B-52H, F-16 (Block 50), B-1, and B-2. Objective aircraft include the F-15E, F-16 (Block 40), F-35, and F/A-18E/F. The government is buying the JASSM system based on a contractor-developed, government-approved System Performance Specification (SPS), this SPS is on contract. The contractor assumes total system performance responsibility (TSPR) for Lots 1-6 as defined in the SPS; for Lot 7 and beyond, the Government has approval authority of Class I configuration changes.

JASSM (baseline) program completed a Reliability Improvement Program in Spring 2008, which culminated with an April 2008 DAE decision to support the JASSM Nunn-McCurdy certification. The restructured program was certified by DAE to Congress on 1 May 2008.

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Continue JASSM and JASSM-ER development, including component upgrades/studies/development, DT testing, and aircraft integration.	3.790	0.000	0.000
(U) Continue upgrades to the Baseline system, including but not limited to JASSM Data Link and Maritime Interdiction	1.100	0.000	0.000
(U) Continue JASSM Baseline reliability initiatives/component upgrades, ground/flight test support, and affordability initiatives.	6.000	3.000	0.000
(U) Continue program office/mission support.	0.885	1.000	0.000
(U) Total Cost	11.775	4.000	0.000

(U) C. Other Program Funding Summary (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) PE 0207325F JASSM Missile Procurement - Baseline	160.036	199.703	52.666							TBD

(U) D. Acquisition Strategy

All major contracts within this project have been awarded through full and open competition. The EMD phase option for JASSM baseline was Cost Plus Award Fee (CPAF).

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Exhibit R-3, RDT&E Project Cost Analysis

DATE

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BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT NUMBER AND TITLE				
07 Operational System Development				0207325F Joint Air-to-Surface Standoff Missile (JASSM)				4515 Joint Air-to-Surface Standoff Missile (JASSM)				
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2008 Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) <u>Product Development</u> MDA - PDRR I	C/CPFF	McDonnell Douglas Aircraft, MO	120.571	0.000		0.000					120.571	120.571
PDRR I& II	C/CPFF	Lockheed Martin, FL	151.109	0.000		0.000					151.109	151.109
EMD & Follow on Development	C/CPAF	Lockheed Martin, FL	409.915	0.000		0.000					409.915	409.915
JASSM ER Risk Reduction Phase I	SS/FFP	Lockheed Martin, FL	9.700	0.000		0.000					9.700	9.700
JASSM ER Development Phase II	SS/CPAF	Lockheed Martin, FL	109.709	4.890	Aug-08	0.000					114.599	114.599
Baseline/ER reliability initiatives, component upgrades, ESAF	SS/CPFF	Lockheed Martin, FL	0.000	5.250	Aug-08	3.000	Jan-09				8.250	9.750
Data Link/MI	SS/CPFF	Lockheed Martin, FL	8.800	0.250	Aug-08	0.000					9.050	9.050
Subtotal Product Development			809.804	10.390		3.000		0.000		0.000	823.194	824.694
Remarks:												
(U) <u>Support</u> F-16 SPO	In-House	WPAFB, OH	26.605	0.000		0.000					26.605	26.605
B-52 SPO	In-House	Tinker AFB, OK	31.229	0.000		0.000					31.229	31.229
B-1 SPO	In-House	WPAFB, OH	6.031	0.000		0.000					6.031	6.031
Other Acft Integ	In-House	various	3.463	0.000		0.000					3.463	3.463
Sverdrup Inc.	C/CPAF	Eglin AFB, FL	15.952	0.000		0.000					15.952	15.952
Other Support (ASuW prep)	Misc	various	38.255	0.885	N/A	1.000	N/A				40.140	40.640
Subtotal Support			121.535	0.885		1.000		0.000		0.000	123.420	123.920
Remarks:												
(U) <u>Test & Evaluation</u> 46TW	In-House	Eglin AFB, FL	97.858	0.500	N/A	0.000					98.358	98.358
Arnold Eng Dev Center	In-House	Arnold AFB, TN	6.808	0.000		0.000					6.808	6.808
Subtotal Test & Evaluation			104.666	0.500		0.000		0.000		0.000	105.166	105.166
Remarks:												
(U) Total Cost			1,036.005	11.775		4.000		0.000		0.000	1,051.780	1,053.780

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Exhibit R-3 (PE 0207325F)

Exhibit R-4, RDT&E Schedule Profile

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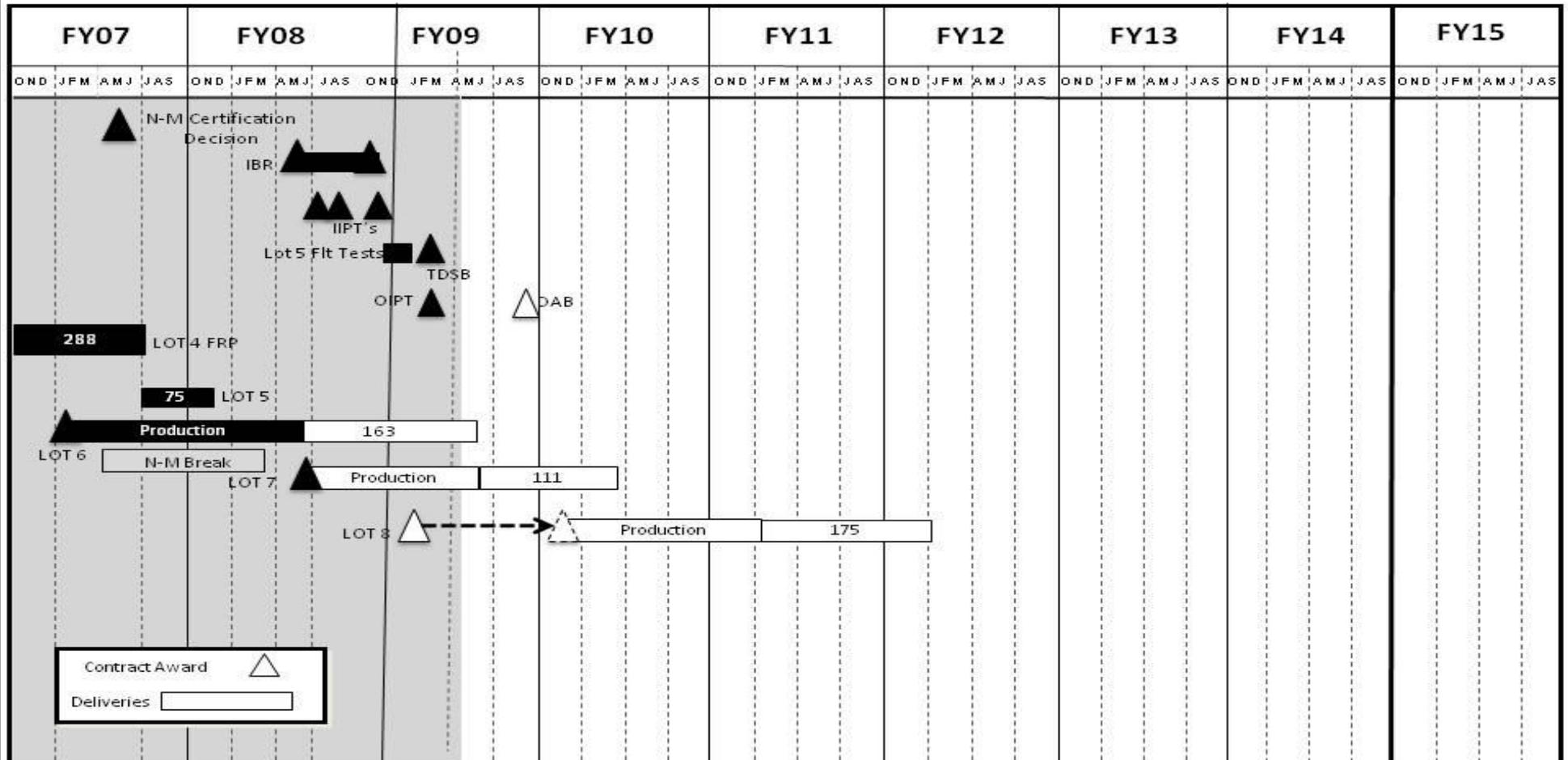
BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0207325F Joint Air-to-Surface Standoff Missile (JASSM)

PROJECT NUMBER AND TITLE
4515 Joint Air-to-Surface Standoff Missile (JASSM)

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

As Of: 27 Apr 09



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Exhibit R-4 (PE 0207325F)

Exhibit R-4a, RDT&E Schedule Detail

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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) Schedule Profile

FY 2008

FY 2009

FY 2010

(U) JASSM Baseline/ER restart and reliability improvement

3-4Q

1-4Q

(U) JASSM ground and flight testing

1-4Q

1-4Q

Exhibit R-2a, RDT&E Project Justification

DATE
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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 5356 JASSM Extended Range (JASSM-ER)		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
5356 JASSM Extended Range (JASSM-ER)	0.000	28.946	20.548	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	4	8	0	0	0	0	0		

This is a new project for JASSM-ER. All FY08 funds for JASSM-ER are still in project 4515.

(U) A. Mission Description and Budget Item Justification

The Joint Air-to-Surface Standoff Missile with Extended Range (JASSM-ER) is an Air Force program designated ACAT 1D in June 2007. Previously (including FY08 and FY09), JASSM-ER was funded under the JASSM project (67515). This program provides a long range, conventional air-to-surface, autonomous, precision-guided, low observable, standoff cruise missile compatible with fighter and bomber aircraft. The threshold integration platform for JASSM-ER is the B-1B. Objective aircraft include the B-52H, F-16 (Block 40/50), B-2, F-15E, F-35, and F/A-18E/F. JASSM-ER provides the capability to attack a variety of high value fixed (to include buried) or relocatable targets with precision, through preplanned missions or target-of-opportunity, deeper into enemy territory than JASSM Baseline while minimizing the threat to launch aircraft. The Air Force is developing JASSM-ER based on a contractor-developed, government-approved System Performance Specification (SPS) dated January 19, 2004, which was developed under JASSM-ER development Phase I Risk Reduction in FY03. On 1 May, 2008, the DAE completed its Nunn-McCurdy review of the JASSM program and certified the program to Congress.

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Continue JASSM-ER development, including component upgrades/studies/development	0.000	27.946	16.948
(U) Continue ER reliability initiatives/component upgrades, 46TW ground/flight test support and affordability initiatives.	0.000	1.000	2.500
(U) Continue program office/mission support.	0.000	0.000	1.100
(U) Total Cost	0.000	28.946	20.548

(U) C. Other Program Funding Summary (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) NONE										

(U) D. Acquisition Strategy

JASSM-ER is the extended range version of the baseline JASSM currently in production. JASSM-ER is being developed in two phases; Phase I risk reduction and Phase II development. The Phase I risk reduction contract was as Firm Fixed Price contract awarded June 2003. This phase completed March 2004. The Phase II development contract is a Cost Plus Award Fee contract awarded February 2004. JASSM-ER development restarted in June 2008 after the successful Nunn-McCurdy certification. Continuation of the Phase II development will be executed as a delivery order under an Indefinite Delivery/Indefinite Quantity contract. Continuation of development will be a Cost Plus Fixed Fee with Performance Incentives to produce and test integrated test missiles. Operational Test missiles will be purchased with

Exhibit R-2a, RDT&E Project Justification

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07 Operational System Development

PE NUMBER AND TITLE

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

PROJECT NUMBER AND TITLE

**5356 JASSM Extended Range
(JASSM-ER)**

the baseline JASSM Lot 8 Firm Fixed Price with Performance Incentive contract in November 2009.

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Exhibit R-3, RDT&E Project Cost Analysis

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BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE			
07 Operational System Development				0207325F Joint Air-to-Surface Standoff Missile (JASSM)					5356 JASSM Extended Range (JASSM-ER)			
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>												
JASSM ER Development & building DT missiles	SS/CPAF	Lockheed Martin, FL	0.000	0.000		27.946	Feb-09	16.948	Jan-10		44.894	TBD
Parts Upgrade and Software Update (due to obsolescence)	TBD	TBD	0.000	0.000		0.000		0.000			0.000	TBD
Subtotal Product Development			0.000	0.000		27.946		16.948		0.000	44.894	TBD
Remarks:												
(U) <u>Support</u>												
Other Support	Misc	various	0.000	0.000		0.000		1.100	N/A		1.100	TBD
Subtotal Support			0.000	0.000		0.000		1.100		0.000	1.100	TBD
Remarks:												
(U) <u>Test & Evaluation</u>												
46 TW	PO	Eglin AFB, FL	0.000	0.000		1.000	N/A	2.500	N/A		3.500	TBD
Subtotal Test & Evaluation			0.000	0.000		1.000		2.500		0.000	3.500	TBD
Remarks:												
(U) <u>Management</u>												
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	TBD
Remarks:												
(U) Total Cost			0.000	0.000		28.946		20.548		0.000	49.494	TBD

Exhibit R-4, RDT&E Schedule Profile

DATE

May 2009

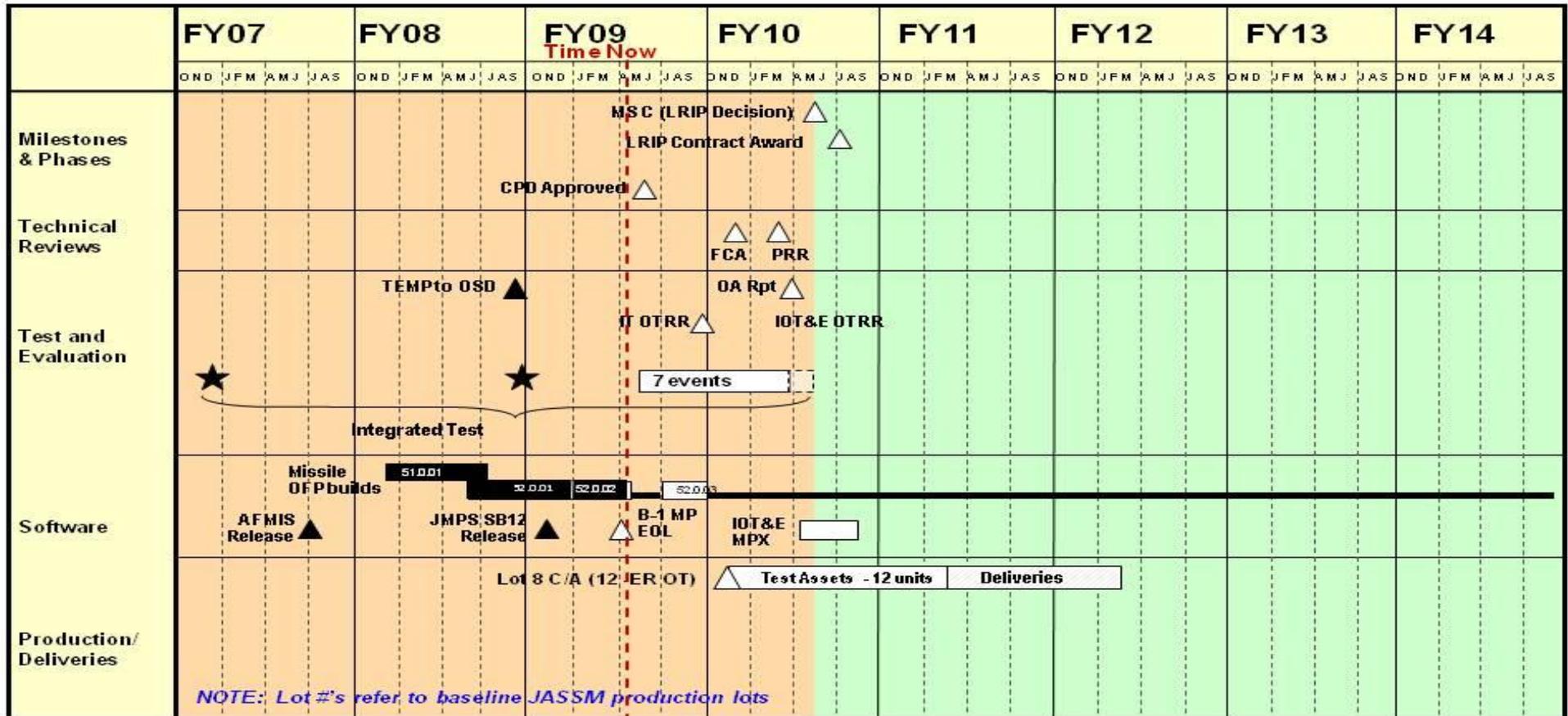
BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0207325F Joint Air-to-Surface
Standoff Missile (JASSM)

PROJECT NUMBER AND TITLE
5356 JASSM Extended Range
(JASSM-ER)

JASSM-ER Schedule

As Of: 23 Apr 09



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Exhibit R-4a, RDT&E Schedule Detail	DATE May 2009
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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 5356 JASSM Extended Range (JASSM-ER)
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(U) <u>Schedule Profile</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) IT: Integrated Testing (Combined DT/OT)		3-4Q	1-4Q
(U) JASSM-ER Development		1-4Q	1-4Q

Exhibit R-2a, RDT&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 5357 JASSM Anti Surface Warfare (ASuW)		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
5357 JASSM Anti Surface Warfare (ASuW)	0.000	0.000	8.946	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

This is a new project, starting in FY10.

(U) A. Mission Description and Budget Item Justification

The Joint Air-to-Surface Standoff Missile/Anti-Surface Warfare (JASSM/ASuW) program brings an additional JASSM capability to conduct operations against high-value surface combatant ships. Previously, part of the ASuW capability (weapon data link) was funded under the JASSM project (67515). This System Development and Demonstration (SDD) program integrates into JASSM a line-of-sight data link capability, as well as the development and integration of a new terminal area algorithm to acquire the desired targets. The threshold launch aircraft is the B-1 bomber. Controlling platforms such as USAF E-8 Joint Surveillance Target Attack Radar System (JSTARS) will provide initial target data to the launch platform, and provided updated target information to the in-flight JASSM. As an objective, integration of a Beyond-Line-of-Sight into JASSM-ER is a requirement. As part of the 1 May 2008 Nunn-McCurdy certification of a restructured JASSM program, DAE directed the Air Force to begin requirements definition on a JASSM Anti-Surface Warfare (ASuW) enhancement, separate from the JASSM Baseline and JASSM-ER increments.

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Start JASSM ASuW - weapon system integration studies	0.000	0.000	1.946
(U) JASSM ASuW Development			7.000
(U) Total Cost	0.000	0.000	8.946

(U) C. Other Program Funding Summary (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) NONE										

(U) D. Acquisition Strategy

The JASSM ASuW program is currently pre-Milestone B, and the program office is supporting the requirements definition process. Milestone B is currently scheduled for 2QFY12, with award of a Cost Plus Fixed Fee with Performance Incentive Systems Development and Demonstration (SDD) contract in February 2011.

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BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE			
07 Operational System Development				0207325F Joint Air-to-Surface Standoff Missile (JASSM)					5357 JASSM Anti Surface Warfare (ASuW)			
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>												
JASSM Anti-Surface Warfare Development/study	SS/CPFF	Lockheed Martin, FL	0.000	0.000		0.000		1.946	Jan-10		1.946	TBD
JASSM ASuW Development	SS/CPFF	Lockheed martin, FL						7.000			7.000	
Subtotal Product Development			0.000	0.000		0.000		8.946		0.000	8.946	TBD
Remarks:												
(U) <u>Support</u>												
Other Support	Misc	various	0.000	0.000		0.000		0.000			0.000	TBD
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	TBD
Remarks:												
(U) <u>Test & Evaluation</u>												
46TW	PO	Eglin AFB, FL	0.000	0.000		0.000		0.000			0.000	TBD
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	TBD
Remarks:												
(U) <u>Management</u>												
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	TBD
Remarks:												
(U) Total Cost			0.000	0.000		0.000		8.946		0.000	8.946	TBD

Exhibit R-4, RDT&E Schedule Profile

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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

5357 JASSM Anti Surface Warfare
(ASuW)

JASSM ASuW Schedule

**JASSM Anti Surface Warfare (ASuW) project starts in
FY10 with low level of funding (\$1.5M) for ASuW Capability
and development study. FY11 and beyond program TBD**

Exhibit R-4a, RDT&E Schedule Detail	DATE May 2009
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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 5357 JASSM Anti Surface Warfare (ASuW)
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(U) <u>Schedule Profile</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) JASSM ASuW Development/Study			1-4Q