

UNCLASSIFIED

PE NUMBER: 0207170F
PE TITLE: JHMCS

Exhibit R-2, RDT&E Budget Item Justification								DATE February 2006																																					
BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0207170F JHMCS																																								
Cost (\$ in Millions)	FY 2005 Actual	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	0.000	0.000	2.287	3.897	3.144	2.530	2.539	Continuing	TBD																																				
5226 Joint Helmet Mounted Cueing System	0.000	0.000	2.287	3.897	3.144	2.530	2.539	Continuing	TBD																																				
<p>Note: Funds transferred from PE 0604012F to PE 0207170F for FY07 and beyond.</p> <p>(U) <u>A. Mission Description and Budget Item Justification</u></p> <p>Note: The funding for JHMCS in FY06 and prior is located under PE 0604012F.</p> <p>This joint Air Force/Navy program (Air Force is the lead service) develops a helmet display system capable of depicting aircraft heading data, pilot's viewing perspective, target indication tracking/cueing, and other information on the aircrew visor to enhance pilot situational awareness. This display allows the pilot to quickly align platform sensors and weapons on targets, and engage threats using high off-boresight (HOBS) weapons such as the AIM-9X.</p> <p>Milestone III was successfully approved in Jan 04, and correspondingly, the first Full Rate Production (FRP) contract was awarded May 04, followed by FRP-2 in Jun 05. Continued activities include Electronic Unit obsolescence redesign; a systems engineering approach for implementing alternate displays, such as night vision; software updates; integration; improvements to Reliability and Maintainability (R&M); system upgrade studies/analysis; other obsolescence upgrades; improved magnetic mapping processes to reduce maintenance manhours and life cycle costs; and efforts to support the transition to Performance Based Logistics Partnership (PBL/P) and depot activation.</p> <p>This program is in budget activity 7 - Operational System Development, because the project in this program element support development acquisition programs or upgrades in support of operational systems.</p> <p>(U) <u>B. Program Change Summary (\$ in Millions)</u></p> <table style="width: 100%; margin-left: 400px;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>FY 2005</u></th> <th style="text-align: center;"><u>FY 2006</u></th> <th style="text-align: center;"><u>FY 2007</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous 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;">2.261</td> </tr> <tr> <td>(U) Current PBR/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;">2.287</td> </tr> <tr> <td>(U) Total Adjustments</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">0.000</td> <td></td> </tr> <tr> <td>(U) Congressional Program Reductions</td> <td></td> <td></td> <td></td> </tr> <tr> <td> Congressional Rescissions</td> <td></td> <td></td> <td></td> </tr> <tr> <td> Congressional Increases</td> <td></td> <td></td> <td></td> </tr> <tr> <td> Reprogrammings</td> <td></td> <td></td> <td></td> </tr> <tr> <td> SBIR/STTR Transfer</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>(U) <u>Significant Program Changes:</u></p> <p>FY 2005 and 2006 Program Change Summary are under PE 0604012F.</p>											<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	(U) Previous President's Budget	0.000	0.000	2.261	(U) Current PBR/President's Budget	0.000	0.000	2.287	(U) Total Adjustments	0.000	0.000		(U) Congressional Program Reductions				Congressional Rescissions				Congressional Increases				Reprogrammings				SBIR/STTR Transfer			
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Exhibit R-2a, RDT&E Project Justification

DATE

February 2006

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207170F JHMCS

PROJECT NUMBER AND TITLE

5226 Joint Helmet Mounted Cueing System

Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
5226 Joint Helmet Mounted Cueing System	0.000	0.000	2.287	3.897	3.144	2.530	2.539	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

Note: Funds transferred from PE 0604012F to PE 0207170F for FY07 and beyond.

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

Note: The funding for JHMCS in FY06 and prior is located under PE 0604012F.

This joint Air Force/Navy program (Air Force is the lead service) develops a helmet display system capable of depicting aircraft heading data, pilot's viewing perspective, target indication tracking/cueing, and other information on the aircrew visor to enhance pilot situational awareness. This display allows the pilot to quickly align platform sensors and weapons on targets, and engage threats using high off-boresight (HOBS) weapons such as the AIM-9X.

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This program is in budget activity 7 - Operational System Development, because the project in this program element support development acquisition programs or upgrades in support of operational systems.

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Continue deficiencies resolution, reliability improvements, P3I activities, obsolescence upgrades, analysis/studies, and night vision integration	0.000	0.000	1.984
(U) Program Management and Support	0.000	0.000	0.303
(U) Total Cost	0.000	0.000	2.287

Note: FY 2005/2006 accomplishments/planned program is in PE 0604012F.

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

	<u>FY 2005</u> <u>Actual</u>	<u>FY 2006</u> <u>Estimate</u>	<u>FY 2007</u> <u>Estimate</u>	<u>FY 2008</u> <u>Estimate</u>	<u>FY 2009</u> <u>Estimate</u>	<u>FY 2010</u> <u>Estimate</u>	<u>FY 2011</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U) RDT&E, BA 5, PE 0604201F, Integrated Avionics Planning and Development	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	45.151
(U) RDT&E, BA 5, PE 0604012F,	2.245	2.870	0.000	0.000	0.000	0.000	0.000	0.000	5.115

Project 5226

R-1 Shopping List - Item No. 17-3 of 17-7

Exhibit R-2a (PE 0207170F)

Exhibit R-2a, RDT&E Project Justification		DATE February 2006
BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0207170F JHMCS	PROJECT NUMBER AND TITLE 5226 Joint Helmet Mounted Cueing System
<p>(U) <u>C. Other Program Funding Summary (\$ in Millions)</u> JHMCS Note: Prior to FY01 JHMCS was funded as part of PE 0604201F. Funding after FY06 is in new PE 0207170F.</p> <p>(U) <u>D. Acquisition Strategy</u> JHMCS is an ACAT III joint USAF/USN program (USAF - executive service). The development contract structure is a Cost Plus Award Fee (CPAF). The CPAF contract is through Boeing - St. Louis for development and integration into the F-15 and F/A-18 aircraft. All other aircraft integration will be handled by the respective platform prime contractors. All major contracts awarded after full and open competition.</p>		
<div>Project 5226</div> <div>R-1 Shopping List - Item No. 17-4 of 17-7</div> <div>Exhibit R-2a (PE 0207170F)</div>		

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Exhibit R-3, RDT&E Project Cost Analysis

DATE

February 2006

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207170F JHMCS

PROJECT NUMBER AND TITLE

5226 Joint Helmet Mounted Cueing System

(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 2005 Cost</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>												
Development and Integration, Reliability Improvements, P3I, Obsolescence Upgrades, Analysis/Studies, and Night Vision Integration	SS, CPFF	Boeing Co. St Louis, MO	0.000	0.000		0.000		1.984		0.000	1.984	
Subtotal Product Development			0.000	0.000		0.000		1.984		0.000	1.984	0.000
Remarks:												
(U) <u>Support</u>												
Cost Reduction Analysis	C, T&M	Various	0.000	0.000		0.000		0.000		0.000	0.000	
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Test & Evaluation</u>												
Various	Various	Various	0.000	0.000		0.000		0.000			0.000	
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Management</u>												
Program Management and Administration	C, T&M	Various	0.000	0.000		0.000		0.303		0.000	0.303	
Subtotal Management			0.000	0.000		0.000		0.303		0.000	0.303	0.000
Remarks:												
(U) Total Cost			0.000	0.000		0.000		2.287		0.000	2.287	0.000

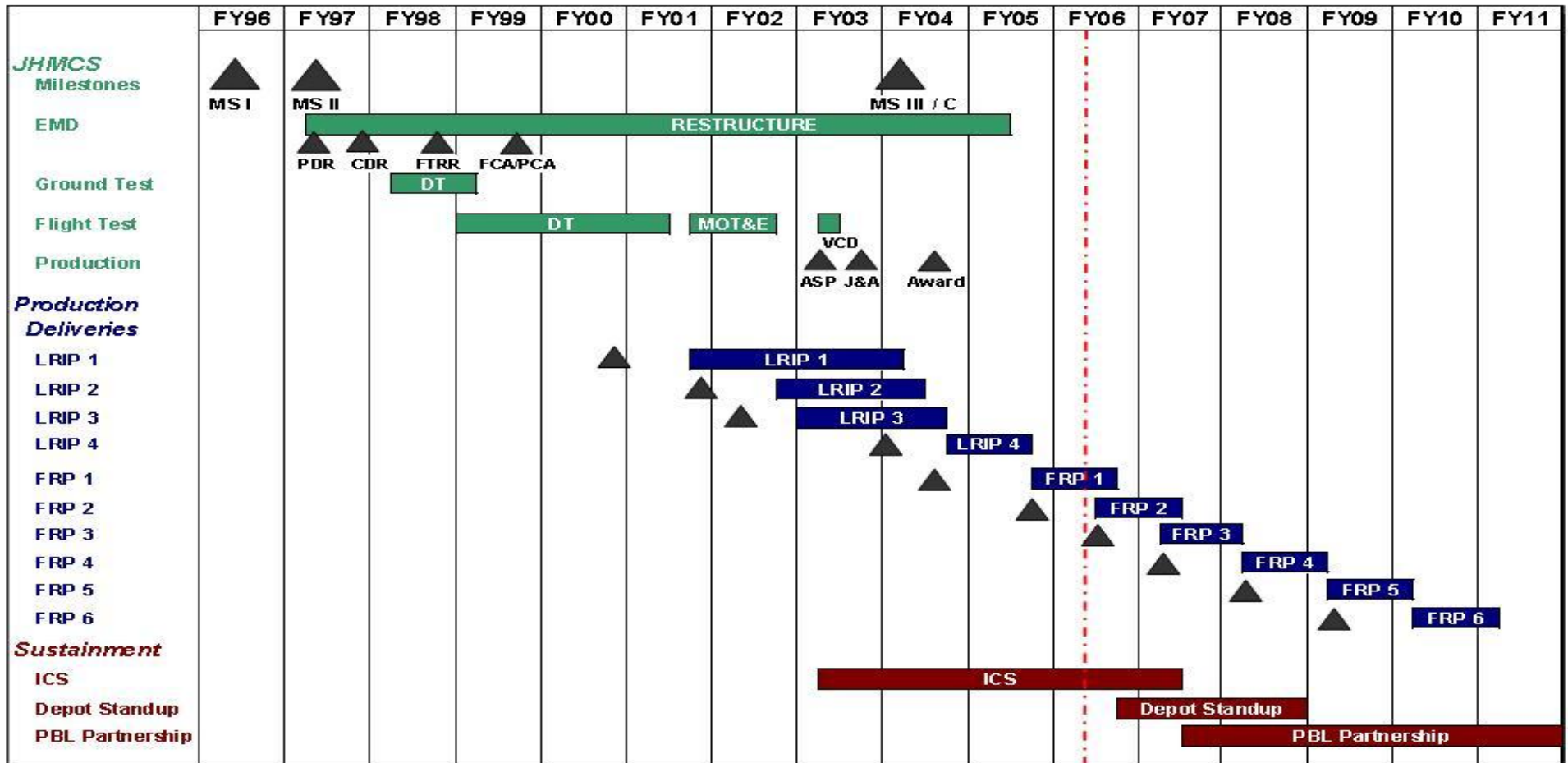
Exhibit R-4, RDT&E Schedule Profile

DATE

February 2006

BUDGET ACTIVITY
07 Operational System DevelopmentPE NUMBER AND TITLE
0207170F JHMCSPROJECT NUMBER AND TITLE
5226 Joint Helmet Mounted Cueing
System

JHMCS Schedule



UNCLASSIFIED

Exhibit R-4a, RDT&E Schedule Detail

DATE

February 2006

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207170F JHMCS

PROJECT NUMBER AND TITLE

5226 Joint Helmet Mounted Cueing
System(U) Schedule ProfileFY 2005FY 2006FY 2007

(U) Continue R&M Fixes/Software Updates/P3I

2-4Q

(U) FRP-4 Contract Award

2Q

FY06 and prior events can be found in PE 0604012F