

**UNCLASSIFIED**

PE NUMBER: 0207170F  
PE TITLE: JHMCS

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	DATE <b>February 2008</b>
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<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0207170F JHMCS</b>
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Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	3.220	5.304	3.192	2.572	2.557	2.603	2.654	0.000	0.000
5226 Joint Helmet Mounted Cueing System	3.220	5.304	3.192	2.572	2.557	2.603	2.654	0.000	0.000

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

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.

Milestone III was approved in Jan 04, and the program is in full rate production (FRP). Continuing activities include, but are not limited to, deficiency resolution; improvements to tooling and test equipment; Electronic Unit obsolescence redesign; a systems engineering approach for implementing alternate displays; improvements to integrate night vision cueing display (NVCD); 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.

This program is in budget activity 7 - Operational System Development - because it is a modification of existing aircraft

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	2.278	5.338	5.456
(U) Current PBR/President's Budget	3.220	5.304	3.192
(U) Total Adjustments	0.942	-0.034	
(U) Congressional Program Reductions			
Congressional Rescissions		-0.034	
Congressional Increases			
Reprogrammings	1.000		
SBIR/STTR Transfer	-0.058		

**(U) Significant Program Changes:**

FY09 funding decrease fixes a database error and correctly aligns program funding to requirements.

**Exhibit R-2a, RDT&E Project Justification**

DATE  
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BUDGET ACTIVITY <b>07 Operational System Development</b>				PE NUMBER AND TITLE <b>0207170F JHMCS</b>			PROJECT NUMBER AND TITLE <b>5226 Joint Helmet Mounted Cueing System</b>			
Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total	
5226 Joint Helmet Mounted Cueing System	3.220	5.304	3.192	2.572	2.557	2.603	2.654	0.000	0.000	
Quantity of RDT&E Articles	0	0	0	0	0	0	0			

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

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.

Milestone III was approved in Jan 04, and the program is in full rate production (FRP). Continuing activities include, but are not limited to, deficiency resolution; improvements to tooling and test equipment; Electronic Unit obsolescence redesign; a systems engineering approach for implementing alternate displays; improvements to integrate night vision cueing display (NVCD); 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.

This program is in budget activity 7 - Operational System Development - because it is a modification of existing aircraft

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Continue deficiency resolution, reliability improvements, P3I activities, obsolescence upgrades, analysis/studies, alternate displays implementation, support for PBL/Depot line, and software updates. Continue incorporating night vision capabilities into JHMCS by testing and integrating the NVCD system.	2.910	4.804	2.692
(U) Program Management and Support	0.310	0.500	0.500
(U) Total Cost	3.220	5.304	3.192

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

	<u>FY 2007</u> <u>Actual</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>FY 2012</u> <u>Estimate</u>	<u>FY 2013</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	45.200
(U) RDT&E, BA 5, PE 0604012F, JHMCS	0.000	0.000	0.000	0.000	0.000			0.000	17.900

Note: Prior to FY01 JHMCS was funded as part of PE 0604201F. Funding from FY01-FY06 is in PE 0604012F.

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

DATE

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BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207170F JHMCS

PROJECT NUMBER AND TITLE

5226 Joint Helmet Mounted Cueing System

(U) **D. Acquisition Strategy**

JHMCS is an ACAT III joint USAF/USN program (USAF - executive service). The development contract structure was a Cost Plus Award Fee (CPAF) through Boeing - St. Louis for development and integration into the F-15, F-16, and F/A-18 aircraft. All other aircraft integration will be handled by the respective platform prime contractors. Follow-on contracts are a mixture of CPAF and FFP. Currently, we are working on a transition from Interim Contractor Support (ICS) to a WRALC Mission Support Division (MSD) funded support posture. Additionally, we are working on organic depot partnership and are exploring PBL opportunities.

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**Exhibit R-3, RDT&E Project Cost Analysis**

DATE

**February 2008**

<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0207170F JHMCS</b>	<b>PROJECT NUMBER AND TITLE</b> <b>5226 Joint Helmet Mounted Cueing System</b>
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<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 2007 Cost</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
<u>(U) Product Development</u> Continue deficiencies resolution, reliability improvements, P3I activities, obsolescence upgrades, analysis/studies, alternate displays implementation, various T&E activities, and software updates. Continue incorporating night vision capabilities into JHMCS by testing and integrating the NVCD system. Subtotal Product Development Remarks:	SS, CPAF	Boeing Co. St Louis, MO	0.000	2.910		4.804	Jan-08	2.692	Jan-09	0.000	10.406	0.000
<u>(U) Management</u> Program Management and Administration Subtotal Management Remarks:	C, T&M	Various	0.000	0.310		0.500		0.500		0.000	1.310	0.000
<u>(U) Total Cost</u>			0.000	3.220		5.304		3.192		0.000	11.716	0.000

Exhibit R-4, RDT&E Schedule Profile

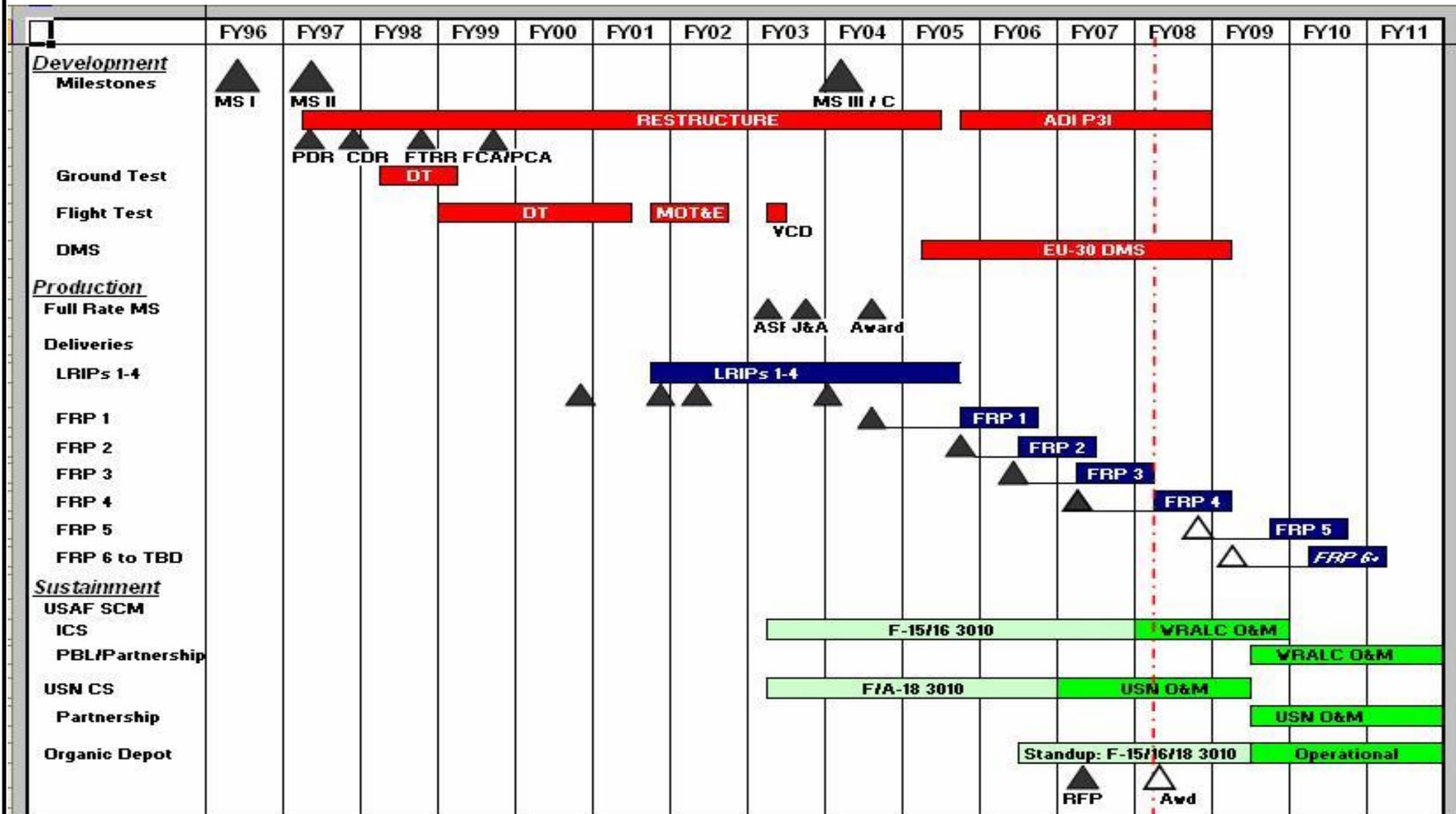
DATE

February 2008

BUDGET ACTIVITY  
07 Operational System Development

PE NUMBER AND TITLE  
0207170F JHMCS

PROJECT NUMBER AND TITLE  
5226 Joint Helmet Mounted Cueing System



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Exhibit R-4 (PE 0207170F)

Project 5226

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<b>Exhibit R-4a, RDT&amp;E Schedule Detail</b>	DATE <b>February 2008</b>
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	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) <b>Schedule Profile</b>			
(U) FRP-5 Contract Award		3Q	
(U) Alternate Displays Implementation Contract Incremental Funding		2Q	
(U) Alternate Displays Implementation Contract Complete			1Q
(U) NVCD Testing		1Q	