

**UNCLASSIFIED**

PE NUMBER: 0604012F

PE TITLE: Joint Helmet Mounted Cueing System (JHMCS)

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	DATE <b>February 2007</b>
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<b>BUDGET ACTIVITY</b> <b>05 System Development and Demonstration (SDD)</b>	<b>PE NUMBER AND TITLE</b> <b>0604012F Joint Helmet Mounted Cueing System (JHMCS)</b>
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Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	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	3.590	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4789 Joint Helmet Mounted Cueing System (JHMCS)	3.590	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

During the transfer from PE 0604012F to PE 0207170F an error was made in the electronic submittal (R-1) to Congress.

**(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 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.

RDT&E funding for JHMCS now resides in PE27170F starting in FY07.

This program is in budget activity 5 - System Design and Development (SDD).

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	3.590	0.000	0.000	0.000
(U) Current PBR/President's Budget	3.590	0.000	0.000	0.000
(U) Total Adjustments	0.000			
(U) Congressional Program Reductions				
Congressional Rescissions				
Congressional Increases				
Reprogrammings				
SBIR/STTR Transfer				
(U) <u>Significant Program Changes:</u>				
N/A				

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

DATE  
**February 2007**

BUDGET ACTIVITY <b>05 System Development and Demonstration (SDD)</b>				PE NUMBER AND TITLE <b>0604012F Joint Helmet Mounted Cueing System (JHMCS)</b>				PROJECT NUMBER AND TITLE <b>4789 Joint Helmet Mounted Cueing System (JHMCS)</b>			
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total	
4789 Joint Helmet Mounted Cueing System (JHMCS)	3.590	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0			

JHMCS PE change request approved for FY07 BES: Funding from FY07 and beyond moved to PE 0207170F.

**(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.

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RDT&E funding for JHMCS now resides in PE27170F starting in FY07.

This program is in budget activity 5 - System Design and Development (SDD).

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Continue deficiencies resolution, reliability improvements, P3I activities, obsolescence upgrades, analysis/studies, and night vision integration	3.301	0.000	0.000	0.000
(U) Continue program management support	0.289	0.000	0.000	0.000
(U) Total Cost	3.590	0.000	0.000	0.000

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

	<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>FY 2012</u>	<u>FY 2013</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) RDT&E, BA 5, PE 0604201F, Integrated Avionics Planning and Development										45.151
Note: Prior to FY01 JHMCS was funded as part of PE 0604201F.										

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

DATE

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BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604012F Joint Helmet Mounted  
Cueing System (JHMCS)

PROJECT NUMBER AND TITLE

4789 Joint Helmet Mounted Cueing  
System (JHMCS)(U) **D. Acquisition Strategy**

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.

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis</b>	DATE <b>February 2007</b>
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<b>BUDGET ACTIVITY</b> <b>05 System Development and Demonstration (SDD)</b>	<b>PE NUMBER AND TITLE</b> <b>0604012F Joint Helmet Mounted Cueing System (JHMCS)</b>	<b>PROJECT NUMBER AND TITLE</b> <b>4789 Joint Helmet Mounted Cueing System (JHMCS)</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</u> <u>Prior to FY</u> <u>2006</u> <u>Cost</u>	<u>FY 2006</u> <u>Cost</u>	<u>FY 2006</u> <u>Award</u> <u>Date</u>	<u>FY 2007</u> <u>Cost</u>	<u>FY 2007</u> <u>Award</u> <u>Date</u>	<u>FY 2008</u> <u>Cost</u>	<u>FY 2008</u> <u>Award</u> <u>Date</u>	<u>FY 2009</u> <u>Cost</u>	<u>FY 2009</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>	<u>Target</u> <u>Value of</u> <u>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		3.301		0.000							3.301	
Subtotal Product Development			0.000	3.301		0.000		0.000		0.000		0.000	3.301	0.000
Remarks:														
<u>(U) Support</u>														
Cost Reduction Analysis	C, T&M	Various		0.000		0.000							0.000	
Subtotal Support			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
Remarks:														
<u>(U) Test &amp; Evaluation</u>														
Various	Various	Various		0.000		0.000							0.000	
Subtotal Test & Evaluation			0.000	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		0.289		0.000							0.289	
Subtotal Management			0.000	0.289		0.000		0.000		0.000		0.000	0.289	0.000
Remarks:														
<u>(U) Total Cost</u>			0.000	3.590		0.000		0.000		0.000		0.000	3.590	0.000

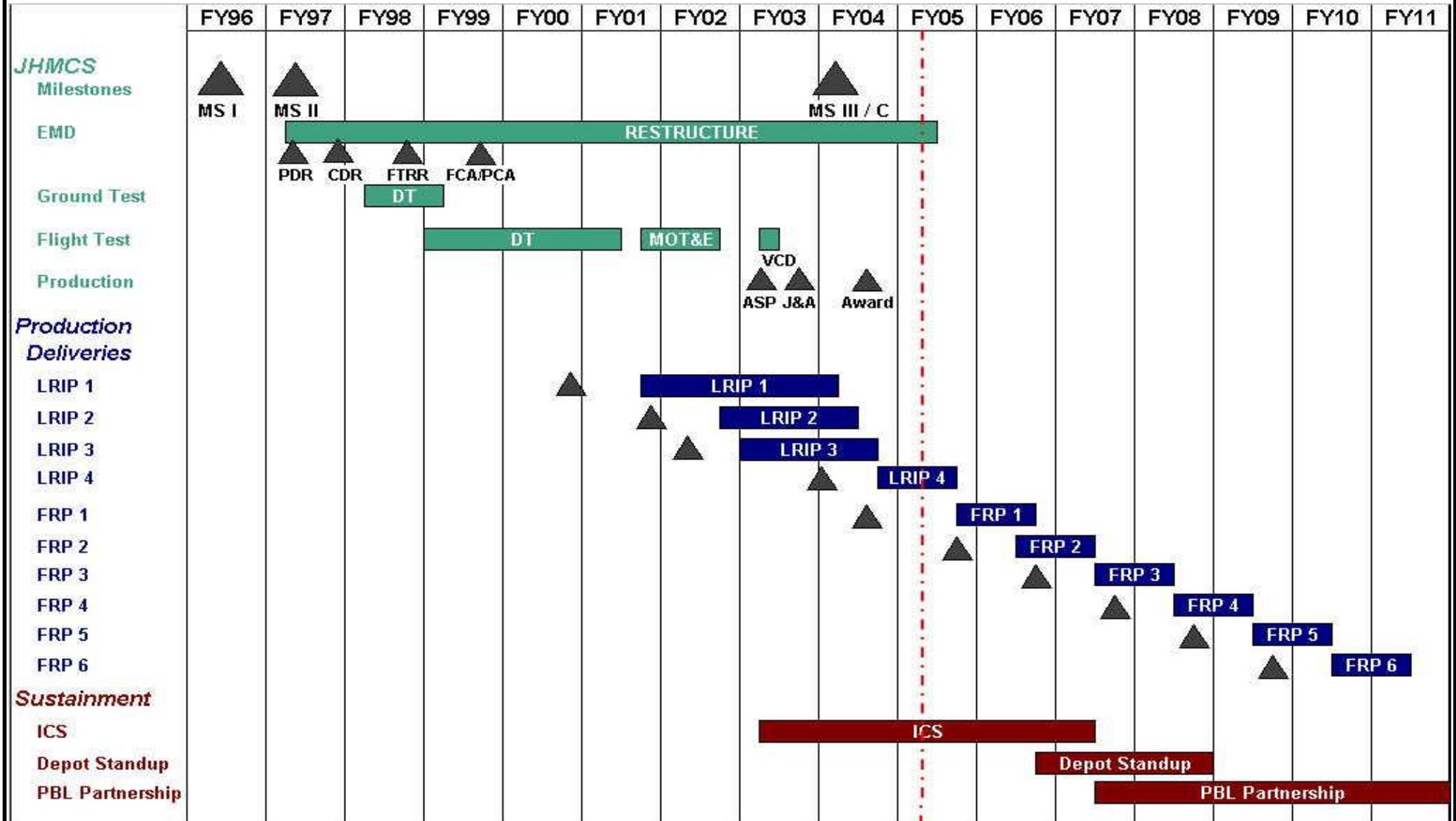
Exhibit R-4, RDT&E Schedule Profile

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Project 4789

Exhibit R-4 (PE 0604012F)

Exhibit R-4a, RDT&E Schedule Detail

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4789 Joint Helmet Mounted Cueing System (JHMCS)

(U) Schedule Profile

FY 2006

FY 2007

FY 2008

FY 2009

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

2Q

(U) Class I ECP's

2Q

(U) FRP-3 Contract Award

2Q

(U) Alternate Displays Contract Award

1Q

Note: Schedule profile milestones for FY07 are located in PE 0207170F.