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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207170F: <i>JHMCS</i>
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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	2.330	1.436	1.472	-	1.472	1.505	1.550	1.613	1.634	Continuing	Continuing
675226: <i>Joint Helmet Mounted Cueing System</i>	2.330	1.436	1.472	-	1.472	1.505	1.550	1.613	1.634	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

The Joint Helmet Mounted Cueing System (JHMCS) 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 System (HOBS) weapons such as the AIM-9X.

JHMCS is a Post Milestone C, Acquisition Category III (ACAT-III) joint AF/Navy program with the AF as the lead service. Program is in Full Rate Production (FRP). Continuing activities include deficiency resolution; improvements to tooling and test equipment; Electronic Unit (EU) obsolescence/Diminishing Manufacturing Sources (DMS) redesign; a systems engineering approach for implementing alternate displays; improvements to integrate Night Vision Cueing & Display (NVCD); software updates; platform integration; improvements to Reliability and Maintainability (R&M); system upgrade studies and analysis; other obsolescence upgrades; improved magnetic mapping processes to reduce maintenance manhours/life cycle costs; and efforts to support the transition to depot activation.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	2.407	1.436	1.469	-	1.469
Current President's Budget	2.330	1.436	1.472	-	1.472
Total Adjustments	-0.077	-	0.003	-	0.003
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.065	-			
• Other Adjustments	-0.012	-	0.003	-	0.003

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Change Summary Explanation

FY2011 Adjustments (Cong General Reductions -\$.012)

C. Accomplishments/Planned Programs (\$ in Millions)

	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
<p>Title: Product Development</p> <p>Description: Continue Pre-Planned Product Improvement (P3I) efforts, software updates, Follow-On Test and Evaluation (FOT&E), and program management/support.</p> <p>FY 2011 Accomplishments: Continued deficiency resolution, reliability improvements, P3I activities, obsolescence upgrades, analysis/studies, alternate displays implementation, and software updates. Developed and qualified an improvement for the Lower Helmet Vehicle Interface (LHVI) to reduce connector pin damage, increased field availability, and reduced repair and spare costs. Continued incorporating night vision capabilities into JHMCS by testing and integrating the NVCD system. Continued mission support and program management to execute P3I and software development efforts.</p> <p>FY 2012 Plans: Continue deficiency resolution, reliability improvements, P3I activities, obsolescence upgrades, analysis/studies, some deficiency reporting, alternate displays implementation, and software updates. Continue incorporating night vision capabilities into JHMCS by testing and integrating the NVCD system. Continue to provide mission support and program management to execute studies, P3I, and software development efforts.</p> <p>FY 2013 Base Plans: Continue deficiency resolution, reliability improvements, P3I activities, obsolescence upgrades, analysis/studies, some deficiency reporting, alternate displays implementation, and software updates. Continue incorporating night vision capabilities into JHMCS by testing and integrating the NVCD system. Continue to provide mission support and program management to execute studies, P3I, and software development efforts.</p> <p>FY 2013 OCO Plans: N/A</p>	2.330	1.436	1.472	-	1.472
Accomplishments/Planned Programs Subtotals	2.330	1.436	1.472	-	1.472

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D. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• N/A: N/A	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

E. Acquisition Strategy

JHMCS is an ACAT III joint USAF/USN program with AF as lead service. The development contract was Cost Plus Award Fee (CPAF) through Boeing - St. Louis for development/integration on the F-15 and F/A-18 aircraft. All other aircraft integration will be handled by the respective platform prime contractors. Follow-on contracts are Firm Fixed Price (FFP). Currently, a transition from Interim Contractor Support (ICS) to a WR-ALC Mission Support Division (MSD) funded support posture is still being worked. Transition plan signed but still requires final coordination from various organizations. Also, an organic depot is being developed.

F. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Air Force		DATE: February 2012
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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Air Force		DATE: February 2012
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
R&M Upgrades	1	2011	3	2011
P3I	2	2012	4	2017