Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

1319: Research, Development, Test & Evaluation, Navy I BA 7: Operational

PE 0206335M / Common Aviation Command and Control System (CAC2S)

Systems Development

COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	-	-	32.495	-	32.495	13.538	10.743	3.435	3.500	Continuing	Continuing
3373: Common Aviation Command and Control System (CAC2S)	0.000	-	-	32.495	-	32.495	13.538	10.743	3.435	3.500	Continuing	Continuing

MDAP/MAIS Code:

Other MDAP/MAIS Code(s): N36

Note

Funding for FY2014 and prior is listed in PE 0206313M Marine Corps Comms Systems, Project 2273 Air Ops Cmd & Control (C2) Sys, Accomplishments/Planned Programs Common Aviation Command and Control Systems (CAC2S)

Funding for FY15 and beyond are listed in PE 0206335M Common Aviation Command and Control System (CAC2S), Project 3373 - Common Aviation Command and Control System (CAC2S)

A. Mission Description and Budget Item Justification

Common Aviation Command and Control System (CAC2S) - A coordinated modernization effort to replace the existing aviation command and control equipment of the Marine Air Command and Control System (MACCS) and to provide the Aviation Combat Element (ACE) with the necessary hardware, software, equipment, and facilities to effectively command, control, and coordinate aviation operations. The CAC2S system will accomplish the MACCS missions with a suite of operationally scalable modules to support the Marine Air Ground Task Force (MAGTF), Joint, and Coalition Forces. The CAC2S integrates the functions of aviation command and control into an interoperable system that will support the core competencies of all Marine Corps warfighting concepts. The CAC2S, in conjunction with MACCS organic sensors and weapons systems, supports the tenets of Expeditionary Maneuver Warfare and fosters joint interoperability. CAC2S Increment I will replace legacy aviation command and control systems in the following Marine aviation agencies: Direct Air Support Center (DASC), Tactical Air Command Center (TACC), and Tactical Air Operations Center (TAOC). Funding in FY15 decreased compared to FY14 due to the ramp down of the Engineering, Manufacturing, and Design (EMD) Phase and transition to procurement after Milestone C in 2nd Qtr FY15.

PE 0206335M: Common Aviation Command and Control System

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R-1 Line #196

[#] The FY 2015 OCO Request will be submitted at a later date.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

1319: Research, Development, Test & Evaluation, Navy I BA 7: Operational Systems Development

PE 0206335M / Common Aviation Command and Control System (CAC2S)

B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	-	-	-	-	-
Current President's Budget	-	-	32.495	-	32.495
Total Adjustments	-	-	32.495	-	32.495
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
Congressional Adds	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-	-			
Rate/Misc Adjustments	-	-	32.495	-	32.495

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PE 0206335M: Common Aviation Command and Control System (CAC2S)

Navy

Exhibit R-2A, RDT&E Project Ju	stification	PB 2015 N	Navy							Date: Mare	ch 2014	
Appropriation/Budget Activity 1319 / 7		PE 0206335M / Common Aviation 3373 / Co						Number/Name) ommon Aviation Command and system (CAC2S)				
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3373: Common Aviation Command and Control System (CAC2S)	-	-	-	32.495	-	32.495	13.538	10.743	3.435	3.500	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
MDAP/MAIS Code: N36	,			•							,	

MDAP/MAIS Code: N36

Note

Funding for FY2014 and prior is listed in PE 0206313M Marine Corps Comms Systems, Project 2273 Air Ops Cmd & Control (C2) Sys, Accomplishments/Planned Programs Common Aviation Command and Control Systems (CAC2S)

Funding for FY15 and beyond are listed in PE 0206335M Common Aviation Command and Control System (CAC2S), Project 3373 - Common Aviation Command and Control System (CAC2S)

A. Mission Description and Budget Item Justification

Common Aviation Command and Control System (CAC2S) - A coordinated modernization effort to replace the existing aviation command and control equipment of the Marine Air Command and Control System (MACCS) and to provide the Aviation Combat Element (ACE) with the necessary hardware, software, equipment, and facilities to effectively command, control, and coordinate aviation operations. The CAC2S system will accomplish the MACCS missions with a suite of operationally scalable modules to support the Marine Air Ground Task Force (MAGTF), Joint, and Coalition Forces. The CAC2S integrates the functions of aviation command and control into an interoperable system that will support the core competencies of all Marine Corps warfighting concepts. The CAC2S, in conjunction with MACCS organic sensors and weapons systems, supports the tenets of Expeditionary Maneuver Warfare and fosters joint interoperability. CAC2S Increment I will replace legacy aviation command and control systems in the following Marine aviation agencies: Direct Air Support Center (DASC), Tactical Air Command Center (TACC), and Tactical Air Operations Center (TAOC). Funding in FY15 decreased compared to FY14 due to the ramp down of the Engineering, Manufacturing, and Design (EMD) Phase and transition to procurement after Milestone C in 2nd Qtr FY15.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Product Development	-	-	6.782
Articles:	-	-	-
FY 2013 Accomplishments:			
N/A			
FY 2014 Plans:	 		

PE 0206335M: Common Aviation Command and Control System (CAC2S)

Navy

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[#] The FY 2015 OCO Request will be submitted at a later date.

				UNCLAS							
Exhibit R-2A, RDT&E Project Just	ification: PB	2015 Navy							Date: I	March 2014	
Appropriation/Budget Activity 1319 / 7				PE 02	06335M / Co	nent (Numb ommon Avia ntrol System	tion	3373	ct (Number/ Common A of System (C	viation Comn	nand and
B. Accomplishments/Planned Pro	grams (\$ in N	//illions, Art	icle Quantit	ties in Each))				FY 2013	FY 2014	FY 2015
N/A											
FY 2015 Plans: Initiate validation and verification of	the four (4) Er	ngineering a	nd Developr	ment Models	(EDMs).						
Title: Support and Management Se	rvices						A	Articles:	- -		5.333
FY 2013 Accomplishments: N/A											
FY 2014 Plans: N/A											
FY 2015 Plans: Continue program management, bu	siness, engine	eering, and l	ogistical sup	port.							
Title: Test and Evaluation							A	Articles:			20.38
FY 2013 Accomplishments: N/A											
FY 2014 Plans: N/A											
FY 2015 Plans: Continue support of phase 2 in Infor Complete developmental testing of Initiate Initial Operational Test and E	he Engineerir	ng and Deve	lopment Mo								
				Accon	nplishment	s/Planned P	rograms Si	ubtotals	-	-	32.49
C. Other Program Funding Summ	ary (\$ in Milli	ons)	FY 2015	FY 2015	FY 2015			,		Cost T	<u>o</u>
Line Item • 0206313M/2273: Common Aviation Command And Control System (CAC2S)	FY 2013 29.055	FY 2014 44.152	Base	<u>oco</u>	Total -	<u>FY 2016</u>	<u>FY 2017</u> -	FY 20 ⁻	<u>18 FY 20</u> ′ -	19 Complet	Total Cos 478.307

PE 0206335M: Common Aviation Command and Control System

(CAC2S) Navy

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Exhibit R-2A, RDT&E Project Just	tification: PB	2015 Navy							Date: Ma	rch 2014	
Appropriation/Budget Activity 1319 / 7				PE 02	r ogram Eler 06335M / Co nand and Co	ommon Avia	tion	3373 / Co	Number/Na mmon Avia ystem (CA)	ation Comma	and and
C. Other Program Funding Summ	ary (\$ in Milli	ons)									
			FY 2015	FY 2015	FY 2015					Cost To	
<u>Line Item</u>	FY 2013	FY 2014	Base	OCO	<u>Total</u>	FY 2016	FY 2017	FY 2018	FY 2019	Complete	Total Cost
• PMC/4640: <i>Common</i>	0.065	0.080	-	-	-	-	-	-	-	-	90.145
Aviation Command And											
Control System (CAC2S)											
• PMC/4644: <i>Common</i>	-	-	12.272	-	12.272	32.744	58.597	49.919	50.867	Continuing	Continuing
Aviation Command And											
Control System (CAC2S)											

Remarks

D. Acquisition Strategy

CAC2S will employ an evolutionary acquisition strategy utilizing an incremental and phased approach for development and fielding of the CAC2S. The Capability Production Document (CPD) identifies two increments to achieve the full requirements of CAC2S. The current acquisition strategy addresses Increment I of the CAC2S development process and focuses on the requirements that will modernize the assault and air support, air defense and control, and Aviation Combat Element (ACE) battle management capabilities of the Marine Air Command and Control System (MACCS). Increment I of the CAC2S will be accomplished through a two phased approach. Phase 1 will address the requirements to establish the baseline CAC2S capabilities for the MACCS and improve AC2 performance and effectiveness. Phase 2 will address the requirements for remaining ACE Battle Management Command & Control (BMC2) requirements.

E. Performance Metrics

N/A

PE 0206335M: Common Aviation Command and Control System (CAC2S)

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy

R-1 Program Element (Number/Name)

Project (Number/Name)

Appropriation/Budget Activity 1319 / 7

PE 0206335M / Common Aviation Command and Control System (CAC2S) 3373 I Common Aviation Command and

Date: March 2014

Control System (CAC2S)

Product Developmen	nt (\$ in M	illions)		FY 2	2013	FY 2	2014	FY 2 Ba	2015 se	FY 2	2015 CO	FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Phase 2	WR	NSWC CD : Crane, In	0.000	-		-		1.031	Nov 2014	-		1.031	Continuing	Continuing	Continuing
Phase 2	C/FPIF	General Dynamics : Pheonix, AZ	0.000	-		-		3.800	Nov 2014	-		3.800	Continuing	Continuing	Continuing
Phase 2	WR	NSWC DD : Dahlgren, VA	0.000	-		-		1.951	Nov 2014	-		1.951	Continuing	Continuing	Continuing
		Subtotal	0.000	-		-		6.782		-		6.782	-	-	-

Support (\$ in Million	s)			FY 2	2013	FY 2	2014	FY 2 Ba	2015 ise		2015 CO	FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Phase 2	MIPR	AMSSA : Aberdeen, MD	0.000	-		-		0.501	Nov 2014	-		0.501	Continuing	Continuing	Continuing
Phase 2	WR	SpaWar : Charleston, SC	0.000	-		-		0.250	Nov 2014	-		0.250	Continuing	Continuing	Continuing
Phase 2	MIPR	JITC : Fort Huachuca, AZ	0.000	-		-		0.500	Nov 2014	-		0.500	Continuing	Continuing	Continuing
Phase 2	Sub Allot	MCTSSA : Camp Pendleton, CA	0.000	-		-		0.170	Nov 2014	-		0.170	Continuing	Continuing	Continuing
Phase 2	WR	NSWC Corona : Corona, CA	0.000	-		-		0.376	Nov 2014	-		0.376	Continuing	Continuing	Continuing
Phase 2	Sub Allot	LogCom : Albany, GA	0.000	-		-		0.502	Nov 2014	-		0.502	Continuing	Continuing	Continuing
Phase 2	C/FP	MCSC Safety : TBD	0.000	-		-		0.250	Nov 2014	-		0.250	Continuing	Continuing	Continuing
		Subtotal	0.000	-		-		2.549		-		2.549	-	-	-

PE 0206335M: Common Aviation Command and Control System

(CAC2S) Navy

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy

Appropriation/Budget Activity

1319 / 7

R-1 Program Element (Number/Name)
PE 0206335M / Common Aviation
Command and Control System (CAC2S)

Date: March 2014

Project (Number/Name)
3373 / Common Aviation Command and Control System (CAC2S)

Test and Evaluation	(\$ in Milli	ons)		FY 2	2013	FY 2	2014		2015 ise		2015 CO	FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Phase 2	WR	NSWC - Port Huenueme : Port Huenueme, CA	0.000	-		-		1.001	Nov 2014	-		1.001	Continuing	Continuing	Continuing
Phase 2	Sub Allot	MCOTEA : Quantico, VA	0.000	-		-		2.253	Nov 2014	-		2.253	Continuing	Continuing	Continuing
Phase 2	WR	MACCS - 2 : Cherry Point, NC	0.000	-		-		0.500	Nov 2014	-		0.500	Continuing	Continuing	Continuing
Phase 2	Sub Allot	MCTSSA : Camp Pendleton, CA	0.000	-		-		6.200	Nov 2014	-		6.200	Continuing	Continuing	Continuing
Phase 2	MIPR	NAWC AB : Patuxent River, MD	0.000	-		-		6.000	Nov 2014	-		6.000	Continuing	Continuing	Continuing
Phase 2	WR	NSWC CD : Crane, IN	0.000	-		-		4.426	Nov 2014	-		4.426	Continuing	Continuing	Continuing
		Subtotal	0.000	-		-		20.380		-		20.380	-	-	-

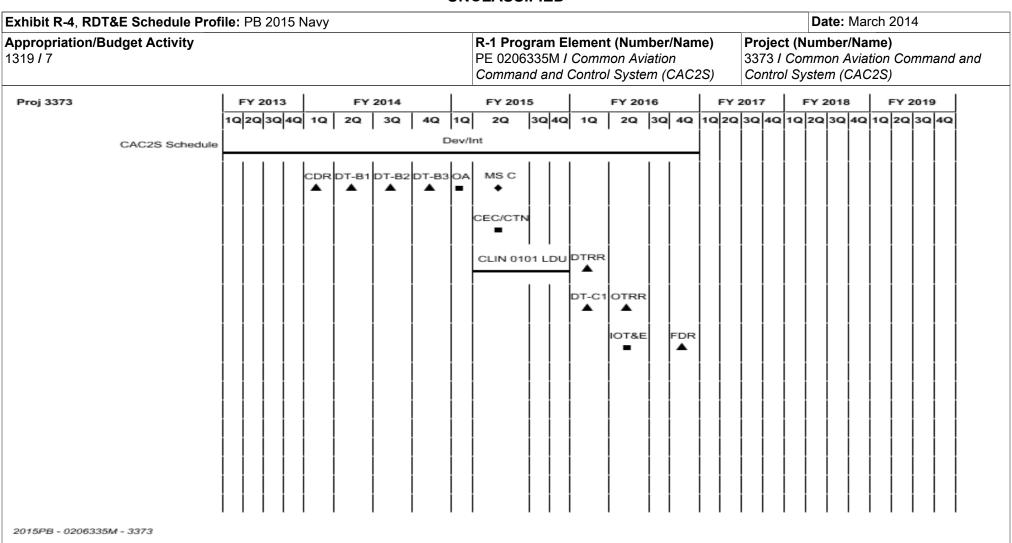
Management Servic	es (\$ in M	illions)		FY	2013	FY 2	2014		2015 ise	FY 2	2015 CO	FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Phase 2	C/FFP	TBD : TBD	0.000	-		-		1.505	Mar 2015	-		1.505	Continuing	Continuing	Continuing
Phase 2	C/FFP	MITRE : Bedford, MA	0.000	-		-		1.279	Nov 2014	-		1.279	Continuing	Continuing	Continuing
		Subtotal	0.000	-		-		2.784		-		2.784	-	-	-

									Target
	Prior			FY 2015	FY 2015	FY 2015	Cost To	Total	Value of
	Years	FY 2013	FY 2014	Base	осо	Total	Complete	Cost	Contract
Project Cost Totals	0.000	-	-	32.495	-	32.495	-	-	-

Remarks

PE 0206335M: Common Aviation Command and Control System

(CAC2S) Navy **UNCLASSIFIED**



PE 0206335M: Common Aviation Command and Control System (CAC2S)

Navy

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy			Date: March 2014
1319 / 7	PE 0206335M / Common Aviation	3373 / Con	umber/Name) nmon Aviation Command and
	Command and Control System (CAC2S)	Control Sy	stem (CAC2S)

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3373				
CAC2S Schedule: CLIN 0001 Development/Integration	1	2013	4	2016
CAC2S Schedule: Critical Design Review	1	2014	1	2014
CAC2S Schedule: Developmental Test - B1	2	2014	2	2014
CAC2S Schedule: Developmental Test - B2	3	2014	3	2014
CAC2S Schedule: Developmental Test - B3	4	2014	4	2014
CAC2S Schedule: Operational Assessment	1	2015	1	2015
CAC2S Schedule: Milestone C	2	2015	2	2015
CAC2S Schedule: Coop Engagement Capability/Composite Tracking Network Certification and Interopability Test	2	2015	2	2015
CAC2S Schedule: Limited Deployment Units (LDU) Build (PMC BL 464400)	2	2015	4	2015
CAC2S Schedule: Developmental Test Readiness Review	1	2016	1	2016
CAC2S Schedule: Developmental Test - C1	1	2016	1	2016
CAC2S Schedule: Operational Test Readiness Review	2	2016	2	2016
CAC2S Schedule: Initial Operational Test and Evaluation	2	2016	2	2016
CAC2S Schedule: Full Deployment Review	4	2016	4	2016

Navy