Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy

**R-1 ITEM NOMENCLATURE** 

1319: Research, Development, Test & Evaluation, Navy

PE 0604264N: Air Crew Systems Development

BA 5: Development & Demonstration (SDD)

APPROPRIATION/BUDGET ACTIVITY

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	5.914	3.249	2.717	-	2.717	6.759	12.119	12.166	12.479	Continuing	Continuing
0606: Aircrew System Development	5.914	3.249	2.717	-	2.717	6.759	12.119	12.166	12.479	Continuing	Continuing

### A. Mission Description and Budget Item Justification

The Aircrew Systems Development program provides Engineering and Manufacturing Development of Aviation Life Support Systems to protect aircrews from current and future threats including: directed energy weapons, chemical/biological/radiological agents/fallout, ballistic projectiles, temperature extremes, heat/fire, low concentration oxygen environments, high dynamic forces during emergency egress, and high "G" forces. The program also provides development for the following capabilities: night vision capability, head protection, communications, clothing, in flight restraint and stability emergency egress and descent, escape and evasion, survival and rescue, crash protection, and anthropometric sizing for small aircrew. Acquisition initiatives include: competition, the application of streamlining initiatives, use of non-developmental items, joint and tri-service developments, and the pursuit of NATO/allied cooperative ventures, which expedite introduction of new products into Navy and Marine Corps fixed and rotary wing aircraft, reduce costs, and promote commonality.

Enhanced Visual Acuity - Night Vision has been focused to provide enhanced visibility in degraded visual environments. Procurement is planned to begin in FY18.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	8.689	3.249	2.762	<del>-</del>	2.762
Current President's Budget	5.914	3.249	2.717	-	2.717
Total Adjustments	-2.775	-	-0.045	-	-0.045
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>	-	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-0.118	-			
Program Adjustments	-	-	-0.051	-	-0.051
Rate/Misc Adjustments	-	-	0.006	-	0.006
<ul> <li>Congressional Recision Adjustments</li> </ul>	-5.100	-	-	-	-
<ul> <li>Congressional General Reductions</li> </ul>	-0.057	-	-	-	-
Adjustments					
Congressional Add Adjustments	2.500	-	-	-	-

PE 0604264N: Air Crew Systems Development

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**DATE:** February 2012

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 5: Development & Demonstration (SDD)

APPROPRIATION/BUDGET ACTIVITY

PE 0604264N: Air Crew Systems Development

PE 0604264N: Air Crew Systems Development

#### **Change Summary Explanation**

Schedule:

#### 1. Acquisition Milestones:

- A. Aircrew Endurance (AE) Milestone (MS) C changed from 3Q11 to 4Q11 due to additional Developmental Testing (DT).
- B. Joint Helmet Mounted Cueing System (JHMCS) Full Rate Production Decision (FRPD) changed from 4Q12 to 2Q12. Integrated Logistics Support (ILS) added to 3Q11. Low Rate Initial Production (LRIP) 3 added to 3Q12. Full Rate Production (FRP) 1 changed from 3Q12 to 2Q12 to align with current acquisition strategy.
- C. Laser Eye Protection (LEP) Milestone C changed from 3Q11 to 1Q13, and IOC changed from 4Q11 to 3Q13 to coincide with current acquisition strategy.
- D. Flight Deck Cranial(FDC) Increment 1 MS C changed from 2Q11 to 3Q11 to coincide with current acquisition strategy.

FRPD Increment (INC) 1 changed from 2Q11 to 4Q11. MS C INC 2 added 4Q12. FRPD INC 2 added 1Q13. IOC INC 2 added 3Q13.

#### 2. Test and Evaluation:

- A. AE DT changed from 1Q09-3Q11 to 1Q09-4Q11 due to redesign and requalification testing.
- B. LEP DT end date changed from 1Q12 to 1Q13 due to redesign and requalification testing.

#### 3. Production Milestones:

- A. AE AE Vest LRIP quantity changed from 600 to 1,184 and end date changed from 2Q13 to 1Q13. FRP 1 quantity changed from 3,248 to 3,780, begin date changed from 1Q13 to 2Q13, and end date changed from 3Q14 to 1Q15. FRP 5 begin date changed from 4Q16 to 2Q17.
- B. JHMCS FRP 1 award date changed from 3Q12 to 2Q12. FRP 1 quantity changed from 69 to 71, begin date changed from 3Q12 to 1Q13, and end date changed from 2Q13 to 4Q13. LRIP 1 quantity changed from 20 to 19. LRIP 2 quantity changed from 29 to 49 and end date changed from 4Q11 to 1Q12. C. LEP FRP 1 renamed to LRIP, quantity changed from 180 to 32, and begin date changed from 1Q13 to 3Q13. FRP 2 renamed to FRP 1, and quantity changed from 185 to 305 and subsequent FRP's shifted down a number.

Technical: N/A

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PE 0604264N: Air Crew Systems Development

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	PRIATION/BUDGET ACTIVITY esearch, Development, Test & Evaluation, Navy evelopment & Demonstration (SDD)				I <b>OMENCLA</b> T 4N: <i>Air Crew</i>			PROJECT 0606: Aircrew System Development				
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	
0606: Aircrew System Development	5.914	3.249	2.717	-	2.717	6.759	12.119	12.166	12.479	Continuing	Continuing	
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0			

## A. Mission Description and Budget Item Justification

Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy

AIRCREW SYSTEMS: Aircrew Endurance (AE), Laser Eye Protection (LEP), Flight Deck Cranial (FDC), Joint Helmet Mounted Cueing System (JHMCS), Night Vision Cueing and Display (NVCD), Enhanced Visual Acuity (EVA) and Aircrew Systems (AS).

Under the above projects, AE includes Survival Vests & Armor, Universal Camouflage, Waste Management, Hydration, Cooling and Clothing Systems. LEP includes Laser Eye Protection for noncorrective and corrective lens, Multi-Wavelength Spectacles, and Laser Eye Protection Improvement Program (LEPIP). FDC includes Improved Hearing Cranial and Protection. JHMCS NVCD includes JHMCS Night Attack. EVA includes enhanced visibility in degraded visual environment technology. AS includes State of the Art (SOA), Modular Aircrew Common Helmet.

AIRCRAFT SYSTEMS: Ejection Seat Endurance includes aircrew endurance modifications for F/A-18 aircraft. Aircraft systems include studies for Advanced Crash Protection (ACP), Oxygen Systems and Non-Ejection Seat Endurance and Electronic Knee Board (EKB).

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
Title: Aircrew System Development	5.118	2.614	2.109
Articles:	0	0	0
Description: AE includes Survival Vests & Armor, Universal Camouflage, Waste Management, Hydration Cooling and Clothing Systems. LEP includes LEP Spectacles (both Self Protection and Multi-Wavelength), step-in visor and LEPIP. FDC includes Improved Hearing Protection. JHMCS NVCD includes JHMCS Night Attack. EVA includes enhanced visability in degraded visual environment technology. AS includes SOA, Modular Aircrew Common Helmet and EKB.  FY 2011 Accomplishments:  AE: Completed fleet assessment for survival vest, completed Milestone (MS) C and armor and conduct Full Rate Production Acquisition Decision Review.  LEP: Completed Developmental Testing to include cockpit compatibility, flight tests and system validation/verification for spectacles. Completed MS C and begin procurement for self protection spectacles.  FDC: Completed FDC Double Hearing Protection (DHP) verification and evaluation. Completed MS C and Low Rate Initial Production (LRIP) contract award for DHP.  JHMCS NVCD: Continue the completion stages of systems integration and work any required engineering changes discovered during Operational Testing. Accepted first LRIP assests.			

PE 0604264N: Air Crew Systems Development

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R-1 Line #99

**DATE:** February 2012

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy			DATE: Fel	oruary 2012			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604264N: Air Crew Systems Development	PROJECT 0606: Airci					
B. Accomplishments/Planned Programs (\$ in Millions, Article Qu	iantities in Each)		FY 2011	FY 2012	FY 2013		
Enhanced Visual Acuity (EVA): Continue Analysis of Alternatives on Technology to determine technology suitability for non-ejection seat N State of the Art (SOA): Continue a yearly evaluation and authorization	Night Vision Goggles platforms.	and					
FY 2012 Plans: AIRCREW SYSTEMS: Aircrew Endurance (AE), Laser Eye Protectio Cueing System (JHMCS), Night Vision Cueing and Display (NVCD),		ounted					
AE: Deliver AE vest system. Initial Operational Capability (IOC) of the LEP: Begin Development Testing on second increment Spectacles at FDC: Complete FDC system vertification and evaluation. Complete the JHMCS NVCD: Address any required engineering changes discovered EVA: Complete Milestone A and enter Technology Development phat SOA: Continue the evaluation and authorization of the survival and classical engineering.	nd IOC of first increment Spectacles. ne final phase of the shipboard integration. ed during Operational Testing. se.						
FY 2013 Plans: AE: Development of new outer jacket system for inclement weather of LEP: IOC of Multi-wave Spectacles. JHMCS NVCD: Award of Full Rate Production contract. EVA: Continue Technology Development SOA: Continue a yearly evaluation and authorization of the survival at Commercial Off-the-Shelf items that provide upgrade performance, filenhance survivibility.	and clothing items. Identification, testing and approva						
Title: Aircraft Systems Development		Articles:	0.796 0	0.635 0	0.608		
<b>Description:</b> Ejection Seat Endurance (ESE) includes aircrew endurance Aircrew Restraint System (CMARS) includes a retractor system for rocrash Protection, Crashworthy Troop Seats, Oxygen Systems and Naircraft.	rance modifications for F/A-18 aircraft. Common Mobitary and fixed wing aircraft. AS include studies for A	oile dvance		0	U		
FY 2011 Accomplishments: CMARS: Issue stop-work and complete contract close-out. NESE/ESE: Complete Physical Configuration Review and IOC. Awa	rd of follow-on NESE/AV-8 ESE contract option.						
FY 2012 Plans:							

PE 0604264N: Air Crew Systems Development

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy  DATE: February 2012								
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT						
1319: Research, Development, Test & Evaluation, Navy	PE 0604264N: Air Crew Systems Development	0606: Aircr	ew System Development					
BA 5: Development & Demonstration (SDD)								

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
Non Ejection Seat Endurance (NESE): Deliver all NESE cushions to fleet. Reach Material Support Date and Navy Support Date.			
FY 2013 Plans:			
Electronic Knee Board: Continue development.			
Accomplishments/Planned Programs Subtotals	5.914	3.249	2.717

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

			FY 2013	FY 2013	FY 2013					Cost To	
<u>Line Item</u>	FY 2011	FY 2012	<b>Base</b>	OCO	<u>Total</u>	FY 2014	FY 2015	FY 2016	FY 2017	<b>Complete</b>	<b>Total Cost</b>
OPN/4244: Aviation Life Support	34.685	74.919	40.475	0.000	40.475	32.434	32.239	35.329	37.306	Continuing	Continuing
APN/0575: Aviation Life Support	2.967	1.069	2.473	0.000	2.473	6.275	6.705	5.908	6.009	Continuing	Continuing
Mods											

### D. Acquisition Strategy

Commercial Off-The-Shelf /Non-Developmental Items where possible, cost plus award fee contracts. Majority of programs non-ACAT programs.

### **E. Performance Metrics**

Aircrew Endurance: Performance Metrics to include Milestone (MS) C, Full Rate Production (FRP) and Initial Operational Capability (IOC).

Laser Eye Protection (Spectacles): Performance Metrics to include Critical Design Review (CDR), MS C, and IOC.

Flight Deck Cranial: Performance Metrics to include CDR, MS C, FRP, and IOC.

Non-Ejection Seat Endurance: Performance Metrics to include MS C, FRP and IOC.

PE 0604264N: Air Crew Systems Development Navy

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604264N: Air Crew Systems Development | 0606: Aircrew System Development

**PROJECT** 

**DATE:** February 2012

Product Development (\$	in Millio	ns)		FY 2	2012	FY 2 Ba		FY 2	2013 CO	FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Eng Aircrew Endurance	C/CPFF	Red Inc:Lexington Park, MD	6.729	0.394	Feb 2012	0.368	Feb 2013	-		0.368	3.777	11.268	11.268
Systems Eng Laser Eye Protection (LEP)	WR	NAWCAD:Patuxent River, MD	4.953	0.372	Dec 2011	0.352	Dec 2012	-		0.352	3.554	9.231	
Systems Eng LEP	C/CPFF	Various:Various	2.780	-		-		-		-	0.000	2.780	2.780
Systems Eng Flight Deck Cranial (FDC)	WR	NAWCAD:Patuxent River, MD	3.214	0.365	Dec 2011	0.145	Dec 2012	-		0.145	0.000	3.724	
Systems Eng FDC	C/CPFF	Various:Various	4.953	-		-		-		-	0.000	4.953	4.953
Systems Eng Joint Helmet Mounted Cueing System Night Vision Cueing & Display	Various	Various:Various	7.729	0.054	Nov 2011	0.040	Nov 2012	-		0.040	0.427	8.250	
Systems Eng Aircrew Systems	WR	Various:Various	6.331	0.295	Dec 2011	0.289	Dec 2012	-		0.289	18.732	25.647	
Systems Eng Aircraft Sys	WR	Various:Various	39.779	0.635	Dec 2011	0.585	Dec 2012	-		0.585	1.828	42.827	
System Eng Wide Field of 'View	Various	Various:Various	1.850	-		-		-		-	19.800	21.650	
System Eng Enhanced Visual Acuity	WR	Various:Various	-	0.217	Nov 2011	0.196	Nov 2012	-		0.196	25.090	25.503	
		Subtotal	78.318	2.332		1.975		-		1.975	73.208	155.833	

#### Remarks

Wide Field of View has been renamed Enhanced Visual Acuity in FY12. Program has been redefined to include enhanced visability in degraded visual environments as well as expanding the field of view of night vision systems.

Costs for Common Mobile Restraint System efforts have been removed from the R-3 due to the program being canceled.

Management Services (\$ in Millions)			FY 2	012	FY 2 Ba		FY 2	2013 CO	FY 2013 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Contractor ETS	C/CPFF	Red Inc:Lexington Park, MD	9.434	0.653	Dec 2011	0.542	Dec 2012	-		0.542	1.744	12.373	12.381
Contractor MSS	C/CPFF	Tekla:Woodbridge, VA	1.050	0.164	Feb 2012	0.130	Feb 2013	-		0.130	0.300	1.644	1.652

PE 0604264N: Air Crew Systems Development Navy

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

1319: Research, Development, Test & Evaluation, Navy

BA 5: Development & Demonstration (SDD)

PE 0604264N: Air Crew Systems Development | 0606: Aircrew System Development

**DATE:** February 2012

Management Services	(\$ in Millio	ns)		FY 2	2012		2013 Ise		2013 CO	FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Travel	WR	Various:Various	0.990	0.100	Dec 2011	0.070	Dec 2012	-		0.070	0.490	1.650	
		Subtotal	11.474	0.917		0.742		-		0.742	2.534	15.667	
			Total Prior Years Cost	FY 2	2012	FY 2 Ba	2013 ise		2013 CO	FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	89.792	3.249		2.717		-		2.717	75.742	171.500	

Remarks

PE 0604264N: Air Crew Systems Development Navy

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy	DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
1319: Research, Development, Test & Evaluation, Navy	PE 0604264N: Air Crew Systems Development	0606: Aircrew System Development
BA 5: Development & Demonstration (SDD)		

PE 0604264N: Air Crew Systems Development Navy

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		
APPROPRIATION/BUDGET ACTIVITY	PROJECT	
1319: Research, Development, Test & Evaluation, Navy	R-1 ITEM NOMENCLATURE PE 0604264N: Air Crew Systems Development	0606: Aircrew System Development
BA 5: Development & Demonstration (SDD)		

PE 0604264N: Air Crew Systems Development Navy

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		
APPROPRIATION/BUDGET ACTIVITY	PROJECT	
1319: Research, Development, Test & Evaluation, Navy	R-1 ITEM NOMENCLATURE PE 0604264N: Air Crew Systems Development	0606: Aircrew System Development
BA 5: Development & Demonstration (SDD)		

PE 0604264N: Air Crew Systems Development Navy

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		
APPROPRIATION/BUDGET ACTIVITY	PROJECT	
1319: Research, Development, Test & Evaluation, Navy	R-1 ITEM NOMENCLATURE PE 0604264N: Air Crew Systems Development	0606: Aircrew System Development
BA 5: Development & Demonstration (SDD)		

PE 0604264N: Air Crew Systems Development Navy

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0604264N: Air Crew Systems Development | 0606: Aircrew System Development

BA 5: Development & Demonstration (SDD)

## Schedule Details

	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year
Aircrew Endurance				
Acquisition Milestones: Milestones: AE: MS C/FRP	4	2011	4	2011
Acquisition Milestones: Milestones: Initial Operational Capability (IOC)	3	2012	3	2012
Production Milestones: Aircrew Endurance (AE): DT	1	2011	4	2011
Production Milestones: Contract Awards: Aircrew Endurance Vest LRIP	4	2011	4	2011
Production Milestones: Contract Awards: Aircrew Endurance Vest FRP 1	2	2012	2	2012
Production Milestones: Contract Awards: Aircrew Endurance Vest FRP 2	2	2013	2	2013
Production Milestones: Contract Awards: Aircrew Endurance Vest FRP 3	2	2014	2	2014
Production Milestones: Contract Awards: Aircrew Endurance Vest FRP 4	2	2015	2	2015
Production Milestones: Contract Awards: Aircrew Endurance Vest FRP 5	2	2016	2	2016
Deliveries: Aircrew Endurance FRP 1 Qty 3780	2	2013	4	2013
Deliveries: AMXD Survivability Upgrade	1	2011	2	2011
Deliveries: Aircrew Endurance FRP 2 Qty 1790	1	2014	1	2015
Deliveries: Aircrew Endurance Vest LRIP Qty 1184	3	2012	1	2013
Deliveries: Aircrew Endurance FRP 3 Qty 979	2	2015	1	2016
Deliveries: Aircrew Endurance FRP 4 Qty 804	2	2016	1	2017
Deliveries: Aircrew Endurance FRP 5 Qty 1198	2	2017	4	2017
Joint Helmet Mounted Cueing System				
Acquisition Milestones: Milestones: JHMCS NVCD: FRP	2	2012	2	2012
Test & Evaluation: Joint Helmet Mounted Cueing System (JHMCS) Night Vision Cueing & Display (NVCD): DT/OT	1	2011	1	2011
Production Milestones: Contract Awards: JHMCS LRIP3	3	2012	3	2012

PE 0604264N: Air Crew Systems Development Navy

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy

R-1 ITEM NOMENCLATURE

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APPROPRIATION/BUDGET ACTIVITY

PROJECT

1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)

PE 0604264N: Air Crew Systems Development | 0606: Aircrew System Development

	Sta	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year	
Production Milestones: Contract Awards: JHMCS ILS	3	2011	3	2011	
Production Milestones: Contract Awards: JHMCS FRP 1	2	2012	2	2012	
Production Milestones: Contract Awards: JHMCS FRP 2	1	2013	1	2013	
Production Milestones: Contract Awards: JHMCS FRP 3	3	2014	3	2014	
Production Milestones: Contract Awards: JHMCS FRP 4	3	2015	3	2015	
Production Milestones: Contract Awards: JHMCS FRP 5	3	2016	3	2016	
Deliveries: JHMCS LRIP 1 Qty 19	1	2011	3	2011	
Deliveries: JHMCS LRIP 2 Qty 49	2	2011	1	2012	
Deliveries: JHMCS LRIP 3 Qty 5	1	2013	3	2013	
Deliveries: JHMCS FRP 1 Qty 71	1	2013	4	2013	
Deliveries: JHMCS FRP 2 Qty 94	1	2014	4	2014	
Deliveries: JHMCS FRP 3 Qty 103	1	2015	4	2015	
Deliveries: JHMCS FRP 4 Qty 94	1	2016	4	2016	
Deliveries: JHMCS FRP 5 Qty 85	1	2017	4	2017	
Laser Eye Protection				1	
Acquisition Milestones: Milestones: LEP: MS C Self Protection Goggles	4	2011	4	2011	
Acquisition Milestones: Milestones: LEP: MS C Threat Protection Goggles	1	2013	1	2013	
Acquisition Milestones: Milestones: LEP: IOC	3	2013	3	2013	
Test & Evaluation: LEP/SPECTACLE: DT	1	2011	1	2013	
Production Milestones: Contract Awards: Laser Eye Protection LRIP	1	2013	1	2013	
Production Milestones: Contract Awards: Laser Eye Protection FRP 1	4	2013	4	2013	
Production Milestones: Contract Awards: Laser Eye Protection FRP 2	4	2014	4	2014	
Production Milestones: Contract Awards: Laser Eye Protection FRP 3	4	2015	4	2015	
Deliveries: Laser Eye Protection LRIP QTY 32	3	2013	3	2013	
Deliveries: Laser Eye Protection FRP 1 QTY 305	1	2014	3	2014	

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy

R-1 ITEM NOMENCLATURE

**DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY

K-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy

BA 5: Development & Demonstration (SDD)

PE 0604264N: Air Crew Systems Development | 0606: Aircrew System Development

	Sta	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year	
Deliveries: Laser Eye Protection FRP 2 Qty 455	1	2015	2	2015	
Deliveries: Laser Eye Protection FRP 3 Qty 465	1	2016	2	2016	
Flight Deck Cranial					
Acquisition Milestones: Milestones: FDC: INC 1 MS C Increment 1	3	2011	3	2011	
Acquisition Milestones: Milestones: FDC: INC 1 FRPD Increment 1	1	2012	1	2012	
Acquisition Milestones: Milestones: FDC: INC 1 IOC Increment 1	3	2012	3	2012	
Acquisition Milestones: Milestones: FDC: INC 2 MS C Increment 2	4	2012	4	2012	
Acquisition Milestones: Milestones: FDC: INC 2 FRPD Increment 2	1	2013	1	2013	
Acquisition Milestones: Milestones: FDC: INC 2 IOC Increment 2	3	2013	3	2013	
Test & Evaluation: Flight Deck Cranial(FDC): DT	1	2011	2	2011	
Production Milestones: Contract Awards: Flight Deck Cranial LRIP	3	2011	3	2011	
Production Milestones: Contract Awards: Flight Deck Cranial FRP 1 INC 1	4	2011	4	2011	
Production Milestones: Contract Awards: Flight Deck Cranial FRP 2 INC 1	2	2012	2	2012	
Production Milestones: Contract Awards: Flight Deck Cranial FRP 3 INC 1	2	2013	2	2013	
Production Milestones: Contract Awards: Flight Deck Cranial FRP 4 INC 1	3	2014	3	2014	
Production Milestones: Contract Awards: Flight Deck Cranial FRP 5 INC 1	3	2015	3	2015	
Production Milestones: Contract Awards: Flight Deck Cranila FPR 6 INC 1	3	2016	3	2016	
Deliveries: EOC Hearing Protection Qty 4000	1	2011	2	2011	
Deliveries: Flight Deck Cranial LRIP Qty 6930	4	2011	1	2012	
Deliveries: Flight Deck Cranial FRP 1 Qty 9839	2	2012	4	2012	
Deliveries: Flight Deck Cranial FRP 2 Qty 4065	1	2013	3	2013	
Deliveries: Flight Deck Cranial FRP 3 Qty 1965	4	2013	3	2014	
Deliveries: Flight Deck Cranial FRP 4 Qty 2420	4	2014	3	2015	
Deliveries: Flight Deck Cranial FRP 5 Qty 2734	4	2015	3	2016	
Deliveries: Flight Deck Cranial FRP 6 Qty 1393	4	2016	3	2017	

PE 0604264N: Air Crew Systems Development Navy

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