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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Navy										Date: February 2015		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0605212N / CH-53K							
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	3,832.886	447.511	559.687	632.092	-	632.092	475.087	176.302	177.999	186.430	-	6,487.994
3059: CH-53K Development	3,832.886	447.511	559.687	632.092	-	632.092	475.087	176.302	177.999	186.430	-	6,487.994
Program MDAP/MAIS Code: 390												
A. Mission Description and Budget Item Justification												
The CH-53 is the only marinized heavy-lift helicopter in the world and is the Marine Corp's only heavy-lift helicopter. The CH-53 mission is the conduct of expeditionary heavy-lift assault transport of armored vehicles, equipment and personnel to support distributed operations deep inland from a sea-based center of operations. The CH-53E "Super Stallion" was introduced into operations in 1980 as an upgrade version of the CH-53D. The CH-53E has developed performance degradation, fatigue life, interoperability, maintenance supportability, and other operational concerns. An improved CH-53 is needed to support Marine Air-Ground Task Force heavy-lift requirements in the 21st century joint environment. The CH-53K "King Stallion" will provide improvements in range and payload, performance, cargo handling, turn-around times, reliability and maintainability, interoperability, and survivability. The CH-53K program is required to provide full system capability, including shipboard compatibilities, at Initial Operational Capability (IOC).												
Total aircraft quantities for the CH-53K program are 205 helicopters. This includes one Ground Test Vehicle (GTV) and four Engineering Development Models (EDMs) for System Development and Demonstration (SDD), to be purchased with Research, Development, Test & Evaluation (RDT&E) funds. Of the remaining 200 aircraft, six will be System Demonstration Test Articles (SDTA's) and will be incrementally funded using RDT&E funds. The SDTA's will be used to prove out production and integration processes on a pilot production line, and to provide aircraft for Initial Operational Test and Evaluation. The remaining 194 aircraft will be Aircraft Procurement, Navy funded.												
FY16 RDT&E funds CH-53K SDD activities which include: Milestone C preparation, ground and flight test of GTV and EDMs, associated subsystems and components, and the continued fabrication and assembly of SDTAs. Additionally, the program takes delivery of the first SDTA aircraft.												
JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under SYSTEM DEVELOPMENT AND DEMONSTRATION because it includes those projects that have passed Milestone B approval and are conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full-rate production decision.												

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Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
1319: Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)		PE 0605212N / CH-53K			
B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	462.280	573.187	714.100	-	714.100
Current President's Budget	447.511	559.687	632.092	-	632.092
Total Adjustments	-14.769	-13.500	-82.008	-	-82.008
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-25.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	11.500			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-14.769	-			
• Rate/Misc Adjustments	-	-	-82.008	-	-82.008
Change Summary Explanation					
The FY 2016 funding request was reduced by \$16.462 million to account for the availability of prior year execution balances.					
Technical: Not applicable.					
Schedule: EDM #1 delivered to test earlier than planned - 1QFY15. FRR (1st Flight) moved to 2QFY15 to occur within 30 days of scheduled 1st Flight. OT-B1 moved to 3QFY16 to allow 13 months of flight test prior to start of Operational Testing. MSC moved 1Q right due to test program delays. ILA and PRR shifted to depict more realistic alignment with MSC. Conclusion of IOT&E extended to 2QFY19 to complete Operational Test program. Delivery dates for SDTA's 2-4 have each shifted 1 Quarter per most recent contractor delivery schedule (sub-vendor material delays). Delivery dates for SDTA's 5-6 have each shifted 2 Quarters right as Conference approval delayed RFP release. Delivery dates for LRIP Lot 1 (qty: 2) and first aircraft of LRIP Lot 2 have each shifted 1Q right to correct manufacturer lead time.					

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy										Date: February 2015		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605212N / CH-53K				Project (Number/Name) 3059 / CH-53K Development			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
3059: CH-53K Development	3,832.886	447.511	559.687	632.092	-	632.092	475.087	176.302	177.999	186.430	-	6,487.994
Quantity of RDT&E Articles	9	-	2	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The CH-53 is the only marinized heavy-lift helicopter in the world and is the Marine Corp's only heavy-lift helicopter. The CH-53 mission is the conduct of expeditionary heavy-lift assault transport of armored vehicles, equipment and personnel to support distributed operations deep inland from a sea-based center of operations. The CH-53E "Super Stallion" was introduced into operations in 1980 as an upgrade version of the CH-53D. The CH-53E has developed performance degradation, fatigue life, interoperability, maintenance supportability, and other operational concerns. An improved CH-53 is needed to support Marine Air-Ground Task Force heavy-lift requirements in the 21st century joint environment. The CH-53K "King Stallion" will provide improvements in range and payload, performance, cargo handling, turn-around times, reliability and maintainability, interoperability, and survivability. The CH-53K program is required to provide full system capability, including shipboard compatibilities, at Initial Operational Capability (IOC).

Total aircraft quantities for the CH-53K program are 205 helicopters. This includes one Ground Test Vehicle (GTV) and four Engineering Development Models (EDMs) for System Development and Demonstration (SDD), to be purchased with Research, Development, Test & Evaluation (RDT&E) funds. Of the remaining 200 aircraft, six will be System Demonstration Test Articles (SDTA's) and will be incrementally funded using RDT&E funds. The SDTA's will be used to prove out production and integration processes on a pilot production line, and to provide aircraft for Initial Operational Test and Evaluation. SDTA's are shown in the year of contract award vice year of delivery. The remaining 194 aircraft will be Aircraft Procurement, Navy funded.

FY16 RDT&E funds CH-53K SDD activities which include: Milestone C preparation, ground and flight test of GTV and EDMs, associated subsystems and components, and the continued fabrication and assembly of SDTAs. Additionally, the program takes delivery of the first SDTA aircraft.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title: Air Vehicle Development	360.165	463.428	535.389	-	535.389
Articles:	-	2	-	-	-
FY 2014 Accomplishments: Performed Systems Design and Development fabrication and assembly activities for the CH-53K Engineering Development Models (EDMs) air vehicles and their associated subsystems and components, Government Furnished Equipment and CH-53K ancillary systems. Focused on ground and flight test of Ground Test Vehicle (GTV) and EDMs and continued fabrication of System Demonstration Test Articles and associated components.					
FY 2015 Plans:					

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Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0605212N / CH-53K		Project (Number/Name) 3059 / CH-53K Development		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Perform ground and flight test of the CH-53K GTV, EDMs and their associated subsystems and components. Evaluate and implement producability, reliability and capability improvements. Continued fabrication and assembly of System Demonstration Test Articles. FY 2016 Base Plans: Perform ground and flight test of the CH-53K GTV, EDMs and their associated subsystems and components. Evaluate and implement producability, reliability and capability improvements. Continued fabrication and assembly of System Demonstration Test Articles. Accept delivery of the first SDTA aircraft. FY 2016 OCO Plans: N/A						
Title: Integrated Logistics Support and Test & Evaluation (T&E) Articles:		42.137 -	45.485 -	46.058 -	- -	46.058 -
FY 2014 Accomplishments: Performed in-house, field activity, and contractor support of Integrated Logistic support. T&E activities include further component qualifications and ground and flight testing. Continued to increase staffing of Integrated Test Team for flight test. FY 2015 Plans: Perform in-house, field activity, and contractor support of Integrated Logistic support. T&E activities include further component qualification and validation of Supportability Test Plans during ground and flight test. Continue to further develop Product Support Packages in preparation for an Integrated Logistics Assessment as required for Milestone C decision. FY 2016 Base Plans: Perform in-house, field activity, and contractor support of Integrated Logistic support. T&E activities include further component qualification and validation of Supportability Test Plans during ground and flight test. Continue to further develop Product Support Packages in preparation for an Integrated Logistics Assessment as required for Milestone C decision. FY 2016 OCO Plans: N/A						
Title: Systems Engineering & Project Management Articles:		45.209 -	50.774 -	50.645 -	- -	50.645 -
FY 2014 Accomplishments:						

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Performed in-house, field activitiy, and contractor support of Integrated Product Teams to allow for the examination and certification of equipment and avionics for the CH-53K. Efforts included continued component qualification, preparation for Engineering Development Model flight certification, government development support, engineering support, program management support, systems engineering support, and travel for the CH-53K program. FY 2015 Plans: Perform in-house, field activity, and contractor support of Integrated Product Teams to allow for the examination and certification of equipment and avionics for the CH-53K. Efforts include Engineering Development Model flight test certification, component reliability and producability improvements in support of System Demonstration Test Articles (SDTA's), engineering support, program management support, and travel for the CH-53K program. FY 2016 Base Plans: Perform in-house, field activity, and contractor support of Integrated Product Teams to allow for the examination and certification of equipment and avionics for the CH-53K. Efforts include Engineering Development Model flight test certification, component reliability and producability improvements in support of System Demonstration Test Articles (SDTA's), monitor LRIP Lot 1 Advance Acquisition Contract, engineering support, program management support, and travel for the CH-53K program. FY 2016 OCO Plans: N/A												
Accomplishments/Planned Programs Subtotals								447.511	559.687	632.092	-	632.092
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost	
• APN / 0158: CH-53K (Heavy Lift)	-	-	41.300	-	41.300	472.424	729.373	1,179.593	1,668.674	17,805.326	21,896.690	
• APN / 06051: CH-53K (Heavy Lift) - Initial Spares	-	-	-	-	-	-	32.065	45.043	47.594	576.319	701.021	
Remarks												
D. Acquisition Strategy												
On 31 October 2005, the Defense Acquisition Board reviewed the CH-53K program for a Milestone (MS) B decision on entry to Systems Design and Development (SDD). The Under Secretary of the Defense (Acquisition, Technology and Logistics) signed the Acquisition Decision Memorandum allowing the program to proceed with SDD on 22 December 2005. The CH-53K program was initiated as an Acquisition Category 1D program, based on total estimated costs for Research, Development,												

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Test and Evaluation and Aircraft Procurement, Navy. The SDD prime contract was awarded sole-source contract to Sikorsky Aircraft Corporation on 5 April, 2006, following the MS B decision. SDD efforts will develop and document technology maturations, selections, and integration into CH-53E design modifications for a new CH-53K variant; produce one CH-53K Ground Test Vehicle and four CH-53K Engineering Developmental Models; and conduct and support Test and Evaluation activities fulfilling milestone exit criteria. In FY13 the SDD contract was modified to include four System Demonstration Test Articles (SDTA's). In FY15 the SDD contract will be modified to add two additional SDTA aircraft. The T408-GE-400 engines for SDTAs 1-4, which were converted from Contractor Furnished Equipment to Government Furnished Equipment, were placed on contract in FY14. Additionally, a contract option was included to provide engines for SDTAs 5-6. <u>E. Performance Metrics</u> Since MS B, the program team has followed a disciplined, event-driven, design and development process. The program completed Preliminary Design Review in September 2008 and conducted Critical Design Review in July 2010. System meets or exceeds all Key Performance Parameters.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy **Date:** February 2015

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605212N / CH-53K	Project (Number/Name) 3059 / CH-53K Development
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Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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 Complete	Total Cost	Target Value of Contract
Primary Hardware Development: SDD / SDTA Air Vehicle	SS/CPIF	Sikorsky : Stratford, CT	3,132.586	325.033	Dec 2013	399.063	Dec 2014	461.922	Dec 2015	-		461.922	728.058	5,046.662	5,046.662
GFE: Various	Various	Various : Various	54.955	2.000	Dec 2013	12.786	Dec 2014	5.871	Dec 2015	-		5.871	5.892	81.504	-
GFE: Engines	SS/CPFF	GE : Lynn, MA	23.271	7.752	Jul 2014	36.839	Jan 2015	52.859	Jan 2016	-		52.859	15.442	136.163	136.163
Incentive Fees	SS/CPIF	Sikorsky : Stratford, CT	52.499	25.380	Dec 2013	14.740	Dec 2014	14.737	Dec 2015	-		14.737	7.944	115.300	115.300
Prior year Prod Dev cost no longer funded in the FYDP	Various	Various : Various	73.400	-		-		-		-		-	-	73.400	-
Subtotal			3,336.711	360.165		463.428		535.389		-		535.389	757.336	5,453.029	-

Remarks

Primary Hardware Development Target Value of Contract includes System Demonstration Test Articles (SDTA's).
 Government Furnished Equipment/Engines provides funding for SDTA engine contract.
 FY14-15 Incentive Fees represent potential Schedule Incentives based on continued progress of the Engineering Development Model (EDM) aircraft.
 FY16-17 Incentive Fees represent potential Schedule Incentives based on continued progress of the System Demonstration Test Article (SDTA) aircraft.

Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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 Complete	Total Cost	Target Value of Contract
Development Support	Various	NAWCAD : Lakehurst, NJ	1.824	3.537	Dec 2013	0.540	Dec 2014	1.828	Dec 2015	-		1.828	19.378	27.107	-
Integrated Logistics Support	WR	NAWCAD : Lakehurst, NJ	9.376	5.100	Dec 2013	4.566	Dec 2014	5.409	Dec 2015	-		5.409	13.323	37.774	-
Integrated Logistics Support	WR	NADEP : Cherry Point, NC	6.300	3.000	Dec 2013	4.954	Dec 2014	3.493	Dec 2015	-		3.493	6.700	24.447	-
Integrated Logistics Support	C/CPFF	GDIT : Fairfax, VA	8.484	3.591	Apr 2014	2.942	Apr 2015	3.001	Apr 2016	-		3.001	6.755	24.773	24.773
Integrated Logistics Support	WR	Various : Various	35.595	2.491	Dec 2013	2.691	Dec 2014	3.169	Dec 2015	-		3.169	8.220	52.166	-
Studies & Analyses	WR	NSWC : Crane, IN	2.500	1.000	Dec 2013	-		-		-		-	-	3.500	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy												Date: February 2015			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0605212N / CH-53K				Project (Number/Name) 3059 / CH-53K Development					
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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 Complete	Total Cost	Target Value of Contract
Studies & Analyses	Various	Various : Various	22.127	-		-		-		-		-	3.000	25.127	-
Subtotal			86.206	18.719		15.693		16.900		-		16.900	57.376	194.894	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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 Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	Various : Various	15.308	4.500	Dec 2013	3.136	Dec 2014	2.391	Dec 2015	-		2.391	27.129	52.464	-
Developmental Test & Evaluation	WR	NAWCAD : Pax River, MD	15.715	16.140	Dec 2013	22.193	Dec 2014	24.610	Dec 2015	-		24.610	55.174	133.832	-
Operational Test & Evaluation	WR	COMPTEVFOR : Norfolk, VA	2.018	0.678	Dec 2013	0.878	Dec 2014	0.961	Dec 2015	-		0.961	14.156	18.691	-
Live Fire Test & Evaluation	WR	NAWCWD : China Lake, CA	4.496	2.100	Dec 2013	3.585	Dec 2014	1.196	Dec 2015	-		1.196	7.550	18.927	-
Subtotal			37.537	23.418		29.792		29.158		-		29.158	104.009	223.914	-
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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 Complete	Total Cost	Target Value of Contract
Contractor Engineering Support	Various	Various : Various	15.885	3.389	Dec 2013	4.077	Dec 2014	4.163	Dec 2015	-		4.163	6.276	33.790	-
Government Engineering Support	WR	NAWCAD : Pax River, MD	256.422	32.745	Dec 2013	38.550	Dec 2014	38.720	Dec 2015	-		38.720	67.453	433.890	-
Program Management Support	C/CPFF	Camber : Huntsville, AL	35.408	6.300	Mar 2014	-		-		-		-	-	41.708	41.708
Program Management Support	C/CPFF	Zenetix : Herndon, VA	0.000	1.000	Aug 2014	6.528	Jan 2015	6.328	Jan 2016	-		6.328	15.500	29.356	29.356
Program Management Support	Various	Various : Various	59.355	1.500	Dec 2013	1.350	Dec 2014	1.159	Dec 2015	-		1.159	5.918	69.282	-

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Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0605212N / CH-53K				Project (Number/Name) 3059 / CH-53K Development					
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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 Complete	Total Cost	Target Value of Contract
Travel	WR	NAWCAD : Pax River, MD	3.412	0.275	Dec 2013	0.269	Dec 2014	0.275	Dec 2015	-		0.275	1.950	6.181	-
Prior year Mgmt cost no longer funded in the FYDP	Various	Various : Various	1.950	-		-		-		-		-	-	1.950	-
Subtotal			372.432	45.209		50.774		50.645		-		50.645	97.097	616.157	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			3,832.886	447.511		559.687		632.092		-		632.092	1,015.818	6,487.994	-
Remarks															

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PE 0605212N: CH-53K
Navy

R-1 Line #141

1319 / 5

PE 0605212N / CH-53K

3059 / CH-53K Development

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Navy																Date: February 2015													
Appropriation/Budget Activity										R-1 Program Element (Number/Name)										Project (Number/Name)									
1319 / 5										PE 0605212N / CH-53K										3059 / CH-53K Development									
																				LRIP 4 (APN) AAC ●				LRIP 4 (APN) Award Qty 13 ●		FRP 5 (APN) AAC ●			
Deliveries																						1		1		1		1	
Sys. Dem. Test Articles (RDT&E)																				1		2		1					
LRIP (APN)																										1		1	
2016PB - 0605212N - 3059																													

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy			Date: February 2015
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605212N / CH-53K	Project (Number/Name) 3059 / CH-53K Development	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
CH-53K Development				
Acquisition Milestones: Milestones: System Demonstration phase	1	2014	3	2018
Acquisition Milestones: Milestones: Integrated Logistics Assessment (ILA)	2	2016	2	2016
Acquisition Milestones: Milestones: Milestone C	4	2016	4	2016
Acquisition Milestones: Milestones: Initial Operational Capability	3	2019	3	2019
Acquisition Milestones: Milestones: Full Rate Production	2	2020	2	2020
System Development: Reviews: Flight Readiness Review (FRR) - Ground Test Vehicle (GTV)	1	2014	1	2014
System Development: Reviews: Flight Readiness Review (FRR) - 1st Flight	2	2015	2	2015
System Development: Reviews: Production Readiness Review (PRR)	3	2016	3	2016
System Development: Development Deliveries: Engineering Development Model (EDM) #1 delivery	1	2015	1	2015
System Development: Development Deliveries: Engineering Development Model (EDM) #2 delivery	3	2015	3	2015
System Development: Development Deliveries: Engineering Development Model (EDM) #3 delivery	2	2015	2	2015
System Development: Development Deliveries: Engineering Development Model (EDM) #4 delivery	4	2015	4	2015
Test & Evaluation: Developmental Test & Evaluation: Developmental Test / TECHEVAL	1	2015	3	2018
Test & Evaluation: Developmental Test & Evaluation: GTV Light Off	1	2014	1	2014
Test & Evaluation: Developmental Test & Evaluation: First Flight	2	2015	2	2015
Test & Evaluation: Operational Test & Evaluation: Operational Test & Evaluation (OT) B1 (OT-B1)	3	2016	3	2016
Test & Evaluation: Operational Test & Evaluation: IOT&E	4	2018	2	2019

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy **Date:** February 2015

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605212N / CH-53K	Project (Number/Name) 3059 / CH-53K Development
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Production Milestones: Contract Awards: System Demonstration Test Articles (SDTA) Award (5-6)	3	2015	3	2015
Production Milestones: Contract Awards: LRIP Advance Acquisition Contract (lot 1) - APN	1	2016	1	2016
Production Milestones: Contract Awards: LRIP 1 Contract Award - APN Qty 2	1	2017	1	2017
Production Milestones: Contract Awards: LRIP Advance Acquisition Contract (lot 2) - APN	1	2017	1	2017
Production Milestones: Contract Awards: LRIP 2 Contract Award - APN Qty 4	1	2018	1	2018
Production Milestones: Contract Awards: LRIP Advance Acquisition Contract (lot 3) - APN	1	2018	1	2018
Production Milestones: Contract Awards: LRIP 3 Contract Award - APN Qty 7	1	2019	1	2019
Production Milestones: Contract Awards: LRIP Advance Acquisition Contract (lot 4) - APN	1	2019	1	2019
Production Milestones: Contract Awards: LRIP 4 Contract Award - APN Qty 13	1	2020	1	2020
Production Milestones: Contract Awards: FRP Advance Acquisition Contract (lot 5) - APN	1	2020	1	2020
Deliveries: Sys. Dem. Test Articles (RDT&E): System Demonstration Test Articles (SDTA) #1	4	2016	4	2016
Deliveries: Sys. Dem. Test Articles (RDT&E): System Demonstration Test Articles (SDTA) #2-3	2	2017	2	2017
Deliveries: Sys. Dem. Test Articles (RDT&E): System Demonstration Test Articles (SDTA) #4	3	2017	3	2017
Deliveries: Sys. Dem. Test Articles (RDT&E): System Demonstration Test Articles (SDTA) #5	2	2019	2	2019
Deliveries: Sys. Dem. Test Articles (RDT&E): System Demonstration Test Articles (SDTA) #6	3	2019	3	2019
Deliveries: LRIP (APN): LRIP Lot #1 1st delivery of 2	1	2020	1	2020
Deliveries: LRIP (APN): LRIP Lot #1 2nd delivery of 2	2	2020	2	2020