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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Navy											Date: May 2017	
Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>					R-1 Program Element (Number/Name) PE 0605212N / CH-53K							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	4,812.294	563.174	404.810	340.758	-	340.758	330.755	300.041	195.506	10.522	0.000	6,957.860
3059: <i>CH-53K Development</i>	4,812.294	563.174	404.810	340.758	-	340.758	330.755	300.041	195.506	10.522	0.000	6,957.860
Program MDAP/MAIS Code:												
Project MDAP/MAIS Code(s): 390												
<u>A. Mission Description and Budget Item Justification</u>												
<p>The CH-53 is the only marinized heavy-lift helicopter in the world and is the Marine Corps 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).</p> <p>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 (SDTAs) and will be incrementally funded using RDT&E funds. The SDTAs 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.</p> <p>FY18 RDT&E funds CH-53K SDD activities which include: ground and flight test of GTV, EDMs and SDTAs, associated subsystems and components, and the continued fabrication and assembly of the remaining three SDTA aircraft.</p> <p>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.</p> <p>***Note*** \$53.000M FY16 RDTE is encumbered in support of JUONS-S0-0010, entitled 'Federated Distributed Aperture Infrared Countermeasures' (DAIRCM) via Rapid Acquisition Authority with a planned contract award in September 2016.</p>												

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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			
B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	592.317	404.810	233.861	-	233.861
Current President's Budget	563.174	404.810	340.758	-	340.758
Total Adjustments	-29.143	0.000	106.897	-	106.897
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-10.017	0.000			
• SBIR/STTR Transfer	-19.126	0.000			
• Program Adjustments	0.000	0.000	106.600	-	106.600
• Rate/Misc Adjustments	0.000	0.000	0.297	-	0.297
Change Summary Explanation					
Technical: FY 2018 funding level increases by \$106.600M in order to fully-fund to the Navy's CH-53K Milestone C Component Cost Position in support of CH-53K SDD efforts to include flight test and Prime Contractor fabrication and assembly of SDTA 4-6.					
Schedule:					
Full Rate Production (FRP) has moved from 2Q FY2020 to 1Q FY2021 to allow for completion of LFT&E program and receipt of test report.					
Initial Operational Test & Evaluation (IOT&E) start date moved from 2Q FY2019 to 4Q FY2019 due to discovery during flight test and to incorporate the required corrections.					

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy										Date: May 2017		
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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
3059: CH-53K Development	4,812.294	563.174	404.810	340.758	-	340.758	330.755	300.041	195.506	10.522	0.000	6,957.860
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		
Project 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 Corps 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 (SDTAs) and will be incrementally funded using RDT&E funds. The SDTAs 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. SDTAs are shown in the year of contract award vice year of delivery. The remaining 194 aircraft will be Aircraft Procurement, Navy funded.												
FY18 RDT&E funds CH-53K SDD activities which include: ground and flight test of GTV, EDMs and SDTAs, associated subsystems and components, and the continued fabrication and assembly of the remaining three SDTA aircraft.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Title: Air Vehicle Development								482.025	315.126	271.876	0.000	271.876
								Articles: -	-	-	-	-
FY 2016 Accomplishments:												
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 2017 Plans:												
Ramp-down of Contractor air vehicle development and ground test activities of the CH-53K GTV, EDMs and associated subsystems and components as developmental test is being conducted. Continue to evaluate												

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
and implement producability, reliability and capability improvements as fabrication and assembly of System Demonstration Test Articles (SDTA) is completed. Government accepts delivery of SDTAs 1-4 in preparation for IOT&E. FY 2018 Base Plans: Continue ground and flight test of the CH-53K GTV, EDMs and their associated subsystems and components. Continue to evaluate and implement producability, reliability and capability improvements during fabrication and assembly of System Demonstration Test Articles (SDTA) 4-6. Delivery of Ancillary Defensive Electronic Countermeasures (DECM) hardware and software to Prime Contractor for integration. FY 2018 OCO Plans: N/A						
Title: Integrated Logistics Support and Test & Evaluation (T&E) Articles:		44.157 -	56.653 -	43.971 -	0.000 -	43.971 -
FY 2016 Accomplishments: 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 2017 Plans: Perform in-house, field activity and contractor support of Integrated Logistic support. Continue to refine Product Support Packages in preparation for IOT&E. Increase Government Test Team in order to support ramp-up of ground and flight test activities, as well as continued component qualification and validation of Supportability Test Plans. FY 2018 Base Plans: Perform in-house, field activity and contractor support of Integrated Logistic support. Continue to refine and validate Product Support Packages in preparation for IOT&E, as well as Supportability Test Plans. Continue component qualification, Government ground and flight test activities, as well as begin LFT&E efforts on the GTV. FY 2018 OCO Plans: N/A						
Title: Systems Engineering & Project Management		36.992	33.031	24.911	0.000	24.911

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)						FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total		
Articles:						-	-	-	-	-		
FY 2016 Accomplishments: 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 producibility 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 2017 Plans: Perform in-house, field activity and contractor support of test program Integrated Product Teams as workforce and resources begin to transition to the CH-53K production program. Efforts include engineering and program management support, as well as travel for the CH-53K program.												
FY 2018 Base Plans: Continue to perform in-house, field activity and contractor support of test program Integrated Product Teams as workforce continues to transition to the CH-53K production program. Monitor and plan for Correction of Deficiencies identified during component qualification and flight test. Efforts include engineering, program management and test program travel.												
FY 2018 OCO Plans: N/A												
Accomplishments/Planned Programs Subtotals						563.174	404.810	340.758	0.000	340.758		
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost	
• APN / 0158 / 0158C: CH-53K (Heavy Lift)	41.300	436.980	714.651	-	714.651	1,162.257	1,370.939	1,795.367	2,180.215	15,730.881	23,432.590	
• APN / 0605: CH-53K - Initial Spares	0.000	91.000	41.656	-	41.656	67.668	117.893	103.757	17.304	391.327	830.605	
• APN / 0528: H-53 Series	0.000	0.000	0.000	-	0.000	19.600	31.700	21.500	28.000	Continuing	Continuing	
Remarks												
APN/0158/0158C: CH-53K Advanced and Regular Procurement (APN-1)												
APN/0605: CH-53K Spares (APN-6)												

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy			Date: May 2017
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605212N / CH-53K	Project (Number/Name) 3059 / CH-53K Development	

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

<u>Line Item</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u> <u>Base</u>	<u>FY 2018</u> <u>OCO</u>	<u>FY 2018</u> <u>Total</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
APN/0528: CH-53K OSIP #s 007-19 Correction of Deficiencies and 008-19 Production Upgrades											

D. Acquisition Strategy

On 31 October 2005, the Defense Acquisition Board (DAB) 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 for Acquisition, Technology and Logistics (USD AT&L) signed the Acquisition Decision Memorandum (ADM) 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, 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 (SDTAs). In FY15 the SDD contract was modified to add the long-lead/critical parts for the 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 exercised in FY15 to provide engines for SDTAs 5-6. On 30 March 2017, the DAB reviewed the CH-53K program for a MS C decision allowing entry into Production and the ADM was signed by USD AT&L on 4 April 2017.

E. Performance Metrics

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: FY 2018 Navy **Date:** May 2017

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 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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	3,848.898	408.340	Jan 2016	265.657	Dec 2016	252.568	Dec 2017	-		252.568	722.997	5,498.460	5,498.460
Ancillary Hardware Development: DECM	SS/CPFF	Northrup Grumman : Falls Church, VA	17.789	0.000	Jan 2016	8.572	Jan 2017	7.679	Jan 2018	-		7.679	0.000	34.040	34.040
GFE: Various	Various	Various : Various	62.162	2.100	Dec 2015	1.955	Dec 2016	1.200	Dec 2017	-		1.200	0.000	67.417	-
GFE: Engines	SS/CPFF	GE : Lynn, MA	87.184	14.924	Jan 2016	27.553	Jan 2017	7.000	Jan 2018	-		7.000	1.150	137.811	137.811
Incentive Fees	SS/CPIF	Sikorsky : Stratford, CT	91.471	3.661	Dec 2015	11.389	Dec 2016	3.429	Jan 2018	-		3.429	10.019	119.969	119.969
RAA: JUONS-S0-0010 (DAIRCM)	TBD	Various : Various	0.000	53.000	Sep 2016	0.000		0.000		-		0.000	0.000	53.000	53.000
Prior year Prod Dev cost no longer funded in the FYDP	Various	Various : Various	73.400	0.000		0.000		0.000		-		0.000	0.000	73.400	-
Subtotal			4,180.904	482.025		315.126		271.876		-		271.876	734.166	5,984.097	-

Remarks
 Primary Hardware Development Target Value of Contract includes System Demonstration Test Articles (SDTAs).
 Ancillary Hardware Development provides funding for Defensive Electronic Countermeasures (DECM) contract.
 Government Furnished Equipment/Engines provides funding for SDTA engine contract.
 FY16-18 Incentive Fees are a contractual requirement as potential schedule incentives based on continued progress of the SDTA aircraft.
 \$53M FY16 RDTE encumbered in support of JUONS-S0-0010, entitled 'Federated Distributed Aperture Infrared Countermeasures' (DAIRCM) via Rapid Acquisition Authority with a planned contract award in September 2016.

Support (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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	5.901	1.828	Dec 2015	1.519	Dec 2016	1.360	Dec 2017	-		1.360	1.900	12.508	-
Integrated Logistics Support	WR	NAWCAD : Lakehurst, NJ	16.489	3.705	Dec 2015	3.428	Dec 2016	1.200	Dec 2017	-		1.200	3.329	28.151	-
Integrated Logistics Support	WR	NADEP : Cherry Point, NC	12.859	3.200	Dec 2015	3.057	Dec 2016	1.458	Dec 2017	-		1.458	2.586	23.160	-

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy **Date:** May 2017

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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Support (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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
Integrated Logistics Support	C/CPFF	GDIT : Fairfax, VA	14.485	3.282	Apr 2016	2.906	Apr 2017	1.960	Apr 2018	-		1.960	4.567	27.200	27.200
Integrated Logistics Support	WR	Various : Various	36.026	1.319	Dec 2015	2.075	Dec 2016	1.792	Dec 2017	-		1.792	3.632	44.844	-
Government Engineering Support	WR	NAWCTSD : Orlando, FL	4.137	1.800	Dec 2015	3.386	Dec 2016	2.257	Dec 2017	-		2.257	2.400	13.980	-
Studies & Analyses	WR	NSWC : Crane, IN	3.500	0.000		0.000		0.000		-		0.000	0.000	3.500	-
Studies & Analyses	Various	Various : Various	22.127	0.000		0.000		0.000		-		0.000	0.000	22.127	-
Subtotal			115.524	15.134		16.371		10.027		-		10.027	18.414	175.470	-

Remarks

NAWC TSD training systems previously captured under "Integrated Logistic Support - Various" are now contained in the Government Engineering support line.

Test and Evaluation (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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	22.793	3.841	Dec 2015	4.250	Dec 2016	1.500	Dec 2017	-		1.500	3.569	35.953	-
Developmental Test & Evaluation	WR	NAWCAD : Pax River, MD	46.348	21.557	Dec 2015	31.443	Dec 2016	27.945	Dec 2017	-		27.945	38.576	165.869	-
Operational Test & Evaluation	WR	COMPTEVFOR : Norfolk, VA	2.925	0.745	Dec 2015	1.157	Dec 2016	1.099	Dec 2017	-		1.099	7.937	13.863	-
Live Fire Test & Evaluation	WR	NAWCWD : China Lake, CA	10.128	2.880	Dec 2015	3.432	Dec 2016	3.400	Dec 2017	-		3.400	4.500	24.340	-
Subtotal			82.194	29.023		40.282		33.944		-		33.944	54.582	240.025	-

Remarks

Test and Evaluation requirements peak in FY17 as System Demonstration Test Articles (SDTAs) are delivered to the CH-53K Integrated Test Team (ITT).

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy										Date: May 2017					
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 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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	21.567	4.163	Dec 2015	4.197	Dec 2016	3.500	Dec 2017	-		3.500	6.038	39.465	-
Government Engineering Support	WR	NAWCAD : Pax River, MD	297.348	26.720	Dec 2015	23.054	Dec 2016	17.542	Dec 2017	-		17.542	13.367	378.031	-
Program Management Support	C/CPFF	Camber : Huntsville, AL	41.708	0.000		0.000		0.000		-		0.000	0.000	41.708	41.708
Program Management Support	C/CPFF	Zenetix : Herndon, VA	7.528	4.750	Jan 2016	4.451	Jan 2017	2.744	Jan 2018	-		2.744	6.939	26.412	26.412
Program Management Support	Various	Various : Various	59.803	1.159	Dec 2015	1.129	Dec 2016	1.000	Dec 2017	-		1.000	2.918	66.009	-
Travel	WR	NAWCAD : Pax River, MD	3.768	0.200	Dec 2015	0.200	Dec 2016	0.125	Dec 2017	-		0.125	0.400	4.693	-
Prior year Mgmt cost no longer funded in the FYDP	Various	Various : Various	1.950	0.000		0.000		0.000		-		0.000	0.000	1.950	-
Subtotal			433.672	36.992		33.031		24.911		-		24.911	29.662	558.268	-

Remarks

Management Services requirements continue to decrease in FY17 and FY18 as both Government and Contractor support begins transition to the CH-53K Production program.

	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	4,812.294	563.174	404.810	340.758	-	340.758	836.824	6,957.860	-

Remarks

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PE 0605212N: CH-53K
Navy

R-1 Line #153

1319 / 5

PE 0605212N / CH-53K

3059 / CH-53K Development

UNCLASSIFIED

PE 0605212N: CH-53K
Navy

R-1 Line #153

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Exhibit R-4A, RDT&E Schedule Details: FY 2018 Navy			Date: May 2017
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	2016	3	2019
Acquisition Milestones: Milestones: Integrated Logistics Assessment (ILA)	2	2016	2	2016
Acquisition Milestones: Milestones: Milestone C	3	2017	3	2017
Acquisition Milestones: Milestones: Initial Operational Capability	1	2020	1	2020
Acquisition Milestones: Milestones: Full Rate Production	1	2021	1	2021
System Development: Reviews: Flight Readiness Review (FRR) - 1st Flight	1	2016	1	2016
System Development: Reviews: Production Readiness Review (PRR)	4	2016	4	2016
System Development: Development Deliveries: Engineering Development Model (EDM) #2 delivery	2	2016	2	2016
System Development: Development Deliveries: Engineering Development Model (EDM) #4 delivery	2	2016	2	2016
Test & Evaluation: Developmental Test & Evaluation: Developmental Test / TECHEVAL	1	2016	3	2019
Test & Evaluation: Developmental Test & Evaluation: First Flight	1	2016	1	2016
Test & Evaluation: Operational Test & Evaluation: Operational Test & Evaluation (OT) B1 (OT-B1)	1	2017	1	2017
Test & Evaluation: Operational Test & Evaluation: IOT&E	4	2019	1	2020
Production Milestones: Contract Awards: LRIP Advance Acquisition Contract (lot 1) - APN	3	2016	3	2016
Production Milestones: Contract Awards: LRIP 1 Contract Award - APN Qty 2	3	2017	3	2017
Production Milestones: Contract Awards: LRIP Advance Acquisition Contract (lot 2) - APN	3	2017	3	2017
Production Milestones: Contract Awards: LRIP 2 Contract Award - APN Qty 4	2	2018	2	2018

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: FY 2018 Navy			Date: May 2017	
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	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year
Production Milestones: Contract Awards: LRIP Advance Acquisition Contract (lot 3) - APN	2	2018	2	2018
Production Milestones: Contract Awards: LRIP 3 Contract Award - APN Qty 7	2	2019	2	2019
Production Milestones: Contract Awards: LRIP Advance Acquisition Contract (lot 4) - APN	2	2019	2	2019
Production Milestones: Contract Awards: LRIP 4 Contract Award - APN Qty 9	2	2020	2	2020
Production Milestones: Contract Awards: FRP Advance Acquisition Contract (lot 5) - APN	2	2020	2	2020
Production Milestones: Contract Awards: FRP 5 Contract Award - APN Qty 13	2	2021	2	2021
Production Milestones: Contract Awards: FRP Advance Acquisition Contract (lot 6) - APN	2	2021	2	2021
Production Milestones: Contract Awards: FRP 6 Contract Award - APN Qty 18	2	2022	2	2022
Production Milestones: Contract Awards: FRP Advance Acquisition Contract (lot 7) - APN	2	2022	2	2022
Deliveries: Sys. Dem. Test Articles (RDT&E): System Demonstration Test Articles (SDTA) #1	3	2017	3	2017
Deliveries: Sys. Dem. Test Articles (RDT&E): System Demonstration Test Articles (SDTA) #2	3	2017	3	2017
Deliveries: Sys. Dem. Test Articles (RDT&E): System Demonstration Test Articles (SDTA) #3	4	2017	4	2017
Deliveries: Sys. Dem. Test Articles (RDT&E): System Demonstration Test Articles (SDTA) #4	1	2018	1	2018
Deliveries: Sys. Dem. Test Articles (RDT&E): System Demonstration Test Articles (SDTA) #5	1	2020	1	2020
Deliveries: Sys. Dem. Test Articles (RDT&E): System Demonstration Test Articles (SDTA) #6	1	2020	1	2020
Deliveries: LRIP (APN): LRIP Lot #1 1st delivery of 2	4	2020	4	2020
Deliveries: LRIP (APN): LRIP Lot #1 2nd delivery of 2	1	2021	1	2021
Deliveries: LRIP (APN): LRIP Lot #2 1st delivery of 4	4	2021	4	2021

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Exhibit R-4A, RDT&E Schedule Details: FY 2018 Navy			Date: May 2017		
Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0605212N / CH-53K		Project (Number/Name) 3059 / CH-53K Development	
		Start		End	
Events by Sub Project		Quarter	Year	Quarter	Year
Deliveries: LRIP (APN): LRIP Lot #2 2nd delivery of 4		1	2022	1	2022
Deliveries: LRIP (APN): LRIP Lot #2 3rd delivery of 4		1	2022	1	2022
Deliveries: LRIP (APN): LRIP Lot #2 4th delivery of 4		2	2022	2	2022
Deliveries: LRIP (APN): LRIP Lot #3 1st delivery of 7		3	2022	3	2022
Deliveries: LRIP (APN): LRIP Lot #3 2nd delivery of 7		3	2022	3	2022
Deliveries: LRIP (APN): LRIP Lot #3 3rd delivery of 7		3	2022	3	2022
Deliveries: LRIP (APN): LRIP Lot #3 4th delivery of 7		4	2022	4	2022
Deliveries: LRIP (APN): LRIP Lot #3 5th delivery of 7		4	2022	4	2022
Deliveries: LRIP (APN): LRIP Lot #3 6th delivery of 7		4	2022	4	2022