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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604273N / (U)Executive Helo Development
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	294.799	356.567	507.093	338.357	-	338.357	478.404	288.198	189.892	54.540	63.884	2,571.734
3300: <i>Presidential Helicopter VH-92A</i>	294.799	356.567	507.093	338.357	-	338.357	478.404	288.198	167.039	30.094	0.000	2,460.551
3390: <i>VH-92A Improvements</i>	0.000	0.000	0.000	0.000	-	0.000	0.000	0.000	22.853	24.446	63.884	111.183

Program MDAP/MAIS Code:
Project MDAP/MAIS Code(s): P429

A. Mission Description and Budget Item Justification

The VH-92A is the replacement helicopter for the VH-3D and the VH-60N, the aircraft currently used by Marine Helicopter Squadron ONE (HMX-1) to transport the President, Vice President, and other distinguished officials as directed by the White House Military Office. The VH-3D and VH-60N are approaching the end of their service lives. Funding for the VH-92A program supports Engineering and Manufacturing Development Phase activities, including: integration of systems; production, qualification, and support of test articles; development of logistics products; and demonstration of system integration, interoperability, safety, and utility.

B. Program Change Summary (\$ in Millions)

	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>
Previous President's Budget	368.084	507.093	589.730	-	589.730
Current President's Budget	356.567	507.093	338.357	-	338.357
Total Adjustments	-11.517	0.000	-251.373	-	-251.373
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-11.517	0.000			
• Program Adjustments	0.000	0.000	-42.257	-	-42.257
• Rate/Misc Adjustments	0.000	0.000	-209.116	-	-209.116

Change Summary Explanation

Cost: The VH-92A program successfully completed the Integrated Baseline Review in November 2014, an independent Schedule Risk Assessment and Estimate at Complete (EAC) in July 2015, and the Preliminary Design Review in August 2015. Based on these reviews, the program re-phased \$40M from FY2017 into FY2020 and \$210M from FY2017 to better align program funding with future work. The program is executing within Acquisition Program Baseline objectives.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604273N / (U) <i>Executive Helo Development</i>	
Technical: Not applicable.		
Schedule: Not applicable.		

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy										Date: February 2016		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604273N / (U)Executive Helo Development				Project (Number/Name) 3300 / Presidential Helicopter VH-92A			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
3300: Presidential Helicopter VH-92A	294.799	356.567	507.093	338.357	-	338.357	478.404	288.198	167.039	30.094	0.000	2,460.551
Quantity of RDT&E Articles		2	2	2	-	2	-	-	-	-		

Project MDAP/MAIS Code: P429

A. Mission Description and Budget Item Justification

Marine Helicopter Squadron One (HMX-1) is required to provide safe and timely transportation for the President and Vice President of the United States, heads of state and others as directed by the White House Military Office. Currently two Type, Model, Series aircraft are used by HMX-1 for the Presidential support mission - the VH-3D and the VH-60N. The VH-92A will replace the VH-3D and VH-60N. Funding supports Engineering and Manufacturing Development Phase (EMD) activities including integration of systems, production, qualification, and support of test articles, logistics products development, demonstration of system integration, interoperability, safety and utility. Two Engineering Development Model (EDM) and four System Demonstration Test Article (SDTA) aircraft will be delivered during EMD. The EDM and SDTA aircraft will be used for Developmental Test & Evaluation for verification of Performance Based Specifications (PBS), airworthiness certification and Supportability Verification. The SDTA aircraft will be used for Initial Operational Test and Evaluation (IOT&E) and be refurbished for Initial Operational Capability (IOC).

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: Product Development	336.723	472.219	298.066	0.000	298.066
Articles:	2	2	2	-	2
FY 2015 Accomplishments: Perform modifications and conduct aircraft testing for co-site interference, communication systems integration and air vehicle performance. Conduct System Functional Review (SFR) and system-level Preliminary Design Review (PDR). Support engineering efforts on the Mission Communications System (MCS) and maturation efforts on hardware/software. Fund engineering and evaluation efforts to integrate and test Wideband Line of Sight (WBLoS), a strategic communications capability. Provide Government Furnished Equipment (GFE) to the prime contractor. Execute other Engineering and Manufacturing Development Phase (EMD) activities, including: integration of systems; production, qualification, and support of test articles; development of logistics products; and demonstration of system integration, interoperability, safety, and utility.					
FY 2016 Plans: Conduct system level Critical Design Review (CDR). Continue engineering support for MCS and hardware/software maturation. Continue WBLoS integration efforts. Continue providing GFE to prime contractor. Conduct Training system PDR. Begin modifying two engineering development model (EDM) aircraft to the VH-92A configuration. Execute other EMD Phase activities, including: integration of systems; production,					

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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604273N / (U)Executive Helo Development	Project (Number/Name) 3300 / Presidential Helicopter VH-92A

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
qualification, and support of test articles; development of logistics products; and demonstration of system integration, interoperability, safety, and utility. FY 2017 Base Plans: Begin Contractor Test (CT) for Federal Aviation Administration (FAA) airworthiness certification. Continue engineering support for MCS and hardware/software maturation. Continue modification of two EDM aircraft and commence modification of SDTA aircraft to the VH-92A configuration. Continue providing GFE to prime contractor. Execute Engineering and Manufacturing Development Phase activities, including: integration of systems; production, qualification, and support of test articles; development of logistics products; and demonstration of system integration, interoperability, safety, and utility. FY 2017 OCO Plans: N/A					
Title: Support Articles:	9.737	17.845	19.957	0.000	19.957
FY 2015 Accomplishments: Participate in programmatic reviews such as System Functional Review (SFR) and Integrated Baseline Review (IBR). Begin maintenance planning in preparation for the development of logistics products that include Automated Logistics Environment (ALE), maintenance plans, task analyses, maintenance summaries and Interactive Electronic Technical Manuals (IETMs). FY 2016 Plans: Continue baseline air vehicle (BAV) IETM development. Complete preliminary maintenance plans. Develop support equipment requirements data (SERDs). Procure common support equipment (CSE). Continue development of incremental products to include maintenance task analyses for individual systems of the aircraft. Continue the development and generation of logistics products identified during FY 2015 to include ALE, task analyses, maintenance summaries and IETMs. Continue support for programmatic reviews. FY 2017 Base Plans: Finalize ALE product development in order to support Integrated Test (IT) in FY 2018. Commence ALE stand up. Continue IETM development/verification. Continue development of SERDs. Continue procurement of CSE. Monitor new and modified support equipment development. Continue the development and generation of task analyses and maintenance summaries. Support programmatic and technical reviews. FY 2017 OCO Plans:	-	-	-	-	-

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604273N / (U)Executive Helo Development	Project (Number/Name) 3300 / Presidential Helicopter VH-92A

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
N/A					
<p>Title: Test and Evaluation</p> <p align="right">Articles:</p> <p>FY 2015 Accomplishments: Support planning and documentation for VH-92A Developmental Testing (DT), Operational Testing (OT), and Alternate Live Fire Test Evaluation (ALFT&E). Begin Mission Communications System (MCS) testing for co-site interference, communication systems integration and air vehicle performance. Initiate System Integration Lab (SIL) development. Commence ALFT&E activities by procuring select components, conducting ALFT&E events, analyzing test data, and generating requisite reports.</p> <p>FY 2016 Plans: Continue support of VH-92A DT/OT/ALFT&E test and evaluation planning and documentation. Perform initial Mission Communications System (MCS) integration and co-site interference testing. Continue System Integration Lab (SIL) development to include procurement of components for installation and integration. Continue ALFT&E activities by procuring needed components, conducting ALFT&E events, analyzing test result data, and generating requisite reports.</p> <p>FY 2017 Base Plans: Continue support of VH-92A DT/OT/ALFT&E test and evaluation planning and documentation. Continue ALFT&E events. Monitor contractor testing in support of airworthiness certification. Commence preparation efforts for Test Readiness Review/Flight Readiness Review (TRR/FRR).</p> <p>FY 2017 OCO Plans: N/A</p>	4.800	10.809	13.538	0.000	13.538
	-	-	-	-	-
<p>Title: Program Management</p> <p align="right">Articles:</p> <p>FY 2015 Accomplishments: Participate in program reviews such as the Preliminary Design Review (PDR), System Functional Review (SFR), and Integrated Baseline Review (IBR). Perform project management tasks to support technical reviews, risk-reduction activities, contractor deliverables, configuration management, training, physical security, and</p>	5.307	6.220	6.796	0.000	6.796
	-	-	-	-	-

UNCLASSIFIED

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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604273N / (U)Executive Helo Development	Project (Number/Name) 3300 / Presidential Helicopter VH-92A

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
information assurance/cyber security. Conduct two Schedule Risk Assessments (SRA) and perform Estimate at Complete (EAC) update. FY 2016 Plans: Participate in the Critical Design Review (CDR). Perform project management tasks to support technical reviews, risk-reduction activities, contractor deliverables, cost and schedule assessments, configuration management, training, physical security, and information assurance/cyber security. Conduct a SRA and perform an EAC update. FY 2017 Base Plans: Perform project management tasks to support technical reviews, risk-reduction activities, contractor deliverables, configuration management, training, physical security, and information assurance/cybersecurity. Perform planned SRA and EAC update. FY 2017 OCO Plans: N/A					
Accomplishments/Planned Programs Subtotals	356.567	507.093	338.357	0.000	338.357

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
• APN-4/04550: VH-92A Executive Helo	0.000	0.000	0.000	-	0.000	0.000	791.306	774.812	750.309	0.000	2,316.427
• APN-6/04550: Spares for VXX	0.000	0.000	0.000	-	0.000	0.000	54.500	80.000	65.500	0.000	200.000

Remarks

D. Acquisition Strategy
The VH-92A program is integrating mature subsystems into an existing commercial helicopter under a Fixed Price Incentive Firm (FPIF) contract. The program's Milestone (MS) B review was completed on 21 Mar 2014, the MS B Acquisition Decision Memorandum was signed on 17 Apr 2014, and the VH-92A contract for the Engineering and Manufacturing Development phase and priced options for production was awarded on 7 May 2014. The VH-92A Program has received a waiver for the Preliminary Design Review (PDR) and post-PDR assessment prior to MS B as approved by the Milestone Decision Authority (USD(AT&L)) on 17 Apr 2014.

UNCLASSIFIED

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E. Performance Metrics

Program performance metrics are contained in the Acquisition Program Baseline (APB) that was approved by the Milestone Decision Authority (USD(AT&L)) on 17 Apr 2014. The program plans to conduct the Critical Design Review (CDR) in 2016.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604273N / (U)Executive Helo Development	Project (Number/Name) 3300 / Presidential Helicopter VH-92A
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Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Primary HW Dev - VH-92A EMD Contract	C/FPIF	Sikorsky Aircraft Corporation : Stratford, CT	52.527	283.855	Oct 2014	420.318	Oct 2015	253.137	Oct 2016	-		253.137	472.663	1,482.500	1,482.500
Primary HW Dev - Advanced Capabilities	Various	NSMA : Arlington, VA	61.878	11.412	Feb 2015	23.179	Feb 2016	20.000	Feb 2017	-		20.000	338.274	454.743	-
Primary HW Dev - VH-92A MCS Design	WR	NAWCAD : St. Inigoes, MD	27.804	12.500	Nov 2014	9.324	Nov 2015	5.056	Nov 2016	-		5.056	6.858	61.542	-
Primary HW Dev - Wideband Line of Sight	MIPR	US Army : APG, MD	0.000	10.110	Dec 2014	0.000		0.000		-		0.000	0.000	10.110	-
Primary HW Dev - VH-92A GFE	Various	Various : Various	1.760	1.639	Nov 2014	2.563	Nov 2015	0.229	Nov 2016	-		0.229	0.000	6.191	-
Systems Engineering	WR	NAWCAD : Patuxent River, MD	32.613	16.640	Nov 2014	16.174	Nov 2015	18.958	Nov 2016	-		18.958	27.960	112.345	-
Training	WR	NAWCTSD : Orlando, FL	0.439	0.567	Nov 2014	0.660	Nov 2015	0.686	Nov 2016	-		0.686	1.251	3.603	-
Prior year Hdw Dev cost no longer funded in the FYDP	Various	Various : Various	14.855	0.000		0.000		0.000		-		0.000	0.000	14.855	-
Subtotal			191.876	336.723		472.218		298.066		-		298.066	847.006	2,145.889	-

Remarks

FUNDING PROFILE: Based on the updated estimates and schedules, FY 2017 funding request was reduced by \$210.1M to account for the availability of prior year execution balances and to better align program funding with future work. FY 2016 and FY 2017 will have a lag in expenditures due to this rephrase of funding. The current budget profile fully funds both FY 2016 and FY 2017.

FINANCIAL PERFORMANCE: VH-92A is evaluated against traditional Research and Development (R&D) program expenditure benchmarks. Unlike many traditional R&D programs, however, the VH-92A EMD contract is a FPIF contract with progress payments. Twenty percent of incurred costs are withheld until the end of the contract, when they are liquidated. Mandatory funding obligations and progress payment withholds will cause the program to lag traditional expenditure benchmarks, painting an inaccurate portrait of overall program health.

ACRONYMS:
 EMD = Engineering & Manufacturing Development
 MCS = Mission Communications System
 GFE = Government Furnished Equipment

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604273N / (U)Executive Helo Development	Project (Number/Name) 3300 / Presidential Helicopter VH-92A
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Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Integrated Logistics Support	WR	NAWCAD : Patuxent River, MD	13.239	6.407	Nov 2014	6.614	Nov 2015	7.057	Nov 2016	-		7.057	17.678	50.995	-
Integrated Logistics Support	WR	FRC : Cherry Point, NC	2.596	2.079	Nov 2014	5.796	Nov 2015	7.322	Nov 2016	-		7.322	13.444	31.237	-
Integrated Logistics Support	WR	NAWCAD : Lakehurst, NJ	0.661	0.675	Nov 2014	4.845	Nov 2015	4.969	Nov 2016	-		4.969	6.688	17.838	-
Integrated Logistics Support	WR	SPAWAR : San Diego, CA	0.433	0.575	Nov 2014	0.591	Nov 2015	0.609	Nov 2016	-		0.609	1.185	3.393	-
Prior year support cost no longer funded in the FYDP	Various	Various : Various	5.589	0.000		0.000		0.000		-		0.000	0.000	5.589	-
Subtotal			22.518	9.736		17.846		19.957		-		19.957	38.995	109.052	-

Remarks
 Integrated Logistics Support (NAWCAD Patuxent River) - Integrated logistics support (ILS) acquisition and management of the VH-92A aircraft. Evaluate contractor development of ILS efforts.
 Integrated Logistics Support (FRC Cherry Point) - VH-92A maintenance planning, reliability centered maintenance (RCM), logistics support analysis efforts, and IETMS development.
 Integrated Logistics Support (NAWCAD Lakehurst) - Support Equipment planning and analysis to include procurement of Common Support Equipment (CSE) and engine test cell development/procurement.
 Integrated Logistics Support (SPAWAR San Diego) - Architecture development and software integration to include certification and accreditation of the VH-92A Automated Logistics Environment.

Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Development Test & Evaluation	WR	NAWCAD : Patuxent River, MD	7.153	2.301	Nov 2014	4.112	Nov 2015	6.204	Nov 2016	-		6.204	49.878	69.648	-
Development Test & Evaluation	WR	NAWCWD : Point Mugu, CA	0.054	0.033	Nov 2014	0.013	Nov 2015	0.013	Nov 2016	-		0.013	0.057	0.170	-
Development Test & Evaluation	MIPR	JITC : Ft. Huachuca, AZ	0.012	0.020	Nov 2014	0.024	Oct 2015	0.025	Oct 2016	-		0.025	0.232	0.313	-

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604273N / (U)Executive Helo Development	Project (Number/Name) 3300 / Presidential Helicopter VH-92A
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Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Alternate Live Fire Test & Evaluation	WR	NAWCWD : China Lake, CA	2.644	1.815	Nov 2014	5.895	Nov 2015	6.087	Nov 2016	-		6.087	7.202	23.643	-
Operational Test & Evaluation	WR	COTF : Norfolk, VA	0.213	0.632	May 2015	0.765	May 2016	1.209	May 2017	-		1.209	3.473	6.292	-
Subtotal			10.076	4.801		10.809		13.538		-		13.538	60.842	100.066	-

Remarks
 Development Test & Evaluation (NAWCAD Patuxent River) - Support for developmental test & evaluation, system integration lab, T&E instrumentation design, procurement, calibration, and tooling.
 Development Test & Evaluation (NAWCWD Point Mugu) - Cyber Security Test & Evaluation
 Development Test & Evaluation (JITC) - Joint Interoperability Test Certification
 Alternate Live Fire Test & Evaluation (NAWCWD China Lake) - ALFT&E test planning/documentation and conduct of ALFT&E test events.

Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Management Support	WR	NAWCAD : Patuxent River, MD	42.996	5.107	Nov 2014	6.095	Nov 2015	6.678	Nov 2016	-		6.678	16.485	77.361	-
Transportation	Various	NAVAIR : Patuxent River, MD	0.085	0.100	Oct 2014	0.025	Oct 2015	0.025	Oct 2016	-		0.025	0.100	0.335	-
Travel	Various	NAVAIR : Patuxent River, MD	0.149	0.100	Oct 2014	0.100	Oct 2015	0.093	Oct 2016	-		0.093	0.307	0.749	-
Prior year Mgmt Svcs cost no longer funded in the FYDP	Various	Various : Various	27.099	0.000		0.000		0.000		-		0.000	0.000	27.099	-
Subtotal			70.329	5.307		6.220		6.796		-		6.796	16.892	105.544	-

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	294.799	356.567	507.093	338.357	-	338.357	963.735	2,460.551	-

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy	Date: February 2016
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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604273N / (U)Executive Helo Development	Project (Number/Name) 3300 / Presidential Helicopter VH-92A
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	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
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Remarks	
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UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604273N / (U)Executive Helo Development	Project (Number/Name) 3300 / Presidential Helicopter VH-92A

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Presidential Helicopter VH-92A				
Requirements: Capabilities Production Document	4	2018	4	2018
Requirements: Initial Operational Capability	4	2020	4	2020
Acquisition Milestones: Engineering & Manufacturing Development	1	2015	1	2021
Acquisition Milestones: Production	2	2019	4	2021
Acquisition Milestones: In Process Review	2	2016	2	2016
Acquisition Milestones: MS C	2	2019	2	2019
Acquisition Milestones: Full Rate Production Decision	3	2021	3	2021
Systems Engineering: Integrated Baseline Review	1	2015	1	2015
Systems Engineering: System Functional Review	2	2015	2	2015
Systems Engineering: Preliminary Design Review	4	2015	4	2015
Systems Engineering: Critical Design Review	4	2016	4	2016
Systems Engineering: Test Readiness Review/Flight Readiness Review (TRR/FRR)	1	2018	1	2018
Systems Engineering: Production Readiness Review	1	2019	1	2019
Logistics/Sustainment: Maintenance Planning / IETM / ALE	1	2015	4	2019
Logistics/Sustainment: Contractor Logistics Support (EMD)	3	2015	1	2021
Logistics/Sustainment: Interim Contractor Support	1	2021	4	2021
Contracting: Wideband Line of Sight	4	2016	4	2016
Contracting: LRIP Lot 1 APN	3	2019	3	2019
Contracting: LRIP Lot 2 APN	3	2020	3	2020
Contracting: FRP APN	3	2021	3	2021
Deliveries: EDM 0	1	2015	1	2015

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604273N / (U)Executive Helo Development	Project (Number/Name) 3300 / Presidential Helicopter VH-92A
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Deliveries: EDM 1	2	2018	2	2018
Deliveries: EDM 2	4	2018	4	2018
Deliveries: System Demonstration Test Article (SDTA) Aircraft 1	2	2019	2	2019
Deliveries: System Demonstration Test Article (SDTA) Aircraft 2	3	2019	3	2019
Deliveries: System Demonstration Test Article (SDTA) Aircraft 3	4	2019	4	2019
Deliveries: System Demonstration Test Article (SDTA) Aircraft 4	2	2020	2	2020
Deliveries: Low Rate Initial Production - Lot 1 (APN)	2	2021	4	2021
Test: Developmental Test - EDM 0 Risk Reduction Test	2	2015	4	2015
Test: Developmental Test - Contractor Test	2	2017	2	2018
Test: Developmental Test - Integrated Test	2	2018	1	2020
Test: Alternate Live Fire Test & Evaluation	2	2015	2	2017
Test: Alternate Live Fire Test & Evaluation Report	3	2017	3	2017
Test: Operational Assessment & Operational Assessment Report	4	2018	1	2019
Test: Operational Test Readiness Review	1	2020	1	2020
Test: Initial Operational Test & Evaluation	1	2020	2	2020
Test: Initial Operational Test & Evaluation Report	2	2020	3	2020
Test: Follow-on Test & Evaluation	3	2020	4	2021
Test: Beyond Low Rate Initial Production Report	1	2021	1	2021

UNCLASSIFIED

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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604273N / (U)Executive Helo Development	Project (Number/Name) 3390 / VH-92A Improvements
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
3390: VH-92A Improvements	0.000	0.000	0.000	0.000	-	0.000	0.000	0.000	22.853	24.446	63.884	111.183
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

VH-92A Product Improvement addresses pre-planned product improvement requirements written into the VXX Capabilities Development Document approved by Joint Requirements Oversight Committee in Jan 2013. The project addresses non-recurring engineering associated with Mission Communications System upgrades (both software and hardware), enhancements to Wideband Line of Sight (specifically upgrades associated with reducing Ground Entry Point transition time), enhanced visual system for pilots associated with degraded visual environments providing better situational awareness particularly in the take-off and landing phase of flight, additional multi function display for better engine / drivetrain displays and providing pilot ability to silence Airborne Collision Avoidance System when in formation flight.

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

N/A

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

N/A

Remarks

D. Acquisition Strategy

VH-92A Product Improvement will include trade studies, cost-benefit analyses, and risk-reduction efforts to address improvements for aircraft capability, safety, operational weight, mission availability, component reliability, maintainability, software, and obsolescence.

E. Performance Metrics

Completion of required VH-92A Product Improvement efforts.

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604273N / (U)Executive Helo Development	Project (Number/Name) 3390 / VH-92A Improvements
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Proj 3390	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
																					Test Planning and Documentation (DT/OT/ALFT&E/FOT&E)				FOT&E			

2017PB - 0604273N - 3390

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604273N / (U)Executive Helo Development	Project (Number/Name) 3390 / VH-92A Improvements

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3390				
Test Planning and Documentation (DT/OT/ALFT&E/FOT&E)	1	2020	4	2020
Follow-On Test & Evaluation	1	2021	4	2021