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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development</i>					R-1 Program Element (Number/Name) PE 0607136A / <i>Blackhawk Product Improvement Program</i>							
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	-	22.502	8.300	4.773	-	4.773	-	-	-	-	-	-
ES3: <i>Blackhawk Product Improvement Program</i>	-	22.502	8.300	4.773	-	4.773	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

UH-60V:

The H-60L Digital Blackhawk, now designated as UH-60V, is designed to update the existing H-60L analog architecture to a digital infrastructure enabling the upgraded aircraft to have a similar Pilot-Vehicle Interface (PVI) to the H-60M. The program will address current capability gaps and meet operational requirements by employing an evolutionary acquisition approach to leverage mature technologies that have been successfully integrated on other military aircraft. The program will reduce obsolescence and increase commonality and interoperability by installing a digital cockpit, bussing and upgrading the communication/identification suite, improving navigation guidance, and integrating Aircraft Survivability Equipment (ASE), digital moving map, and Joint Variable Message Format (JVMF) messaging. Continuing funding will provide hardware and software development, training material development, as well as developmental and operational testing.

MEDEVAC:

Beginning in Fiscal Year (FY) 2019, Research Development Technology & Evaluation (RDT&E) funding will also support non-recurring engineering to integrate and qualify MEDEVAC Mission Equipment Package (MEP) into the UH-60V Black Hawk helicopter. This MEDEVAC MEP integration effort is independent of the UH-60V Program of Record and Acquisition Program Baseline (APB). The Surgeon General (TSG) has a requirement for a MEDEVAC capability provided by Black Hawk helicopters that were not initially produced for MEDEVAC, but are designated to support the MEDEVAC mission. In accordance with AR 40-60 Medical Materiel Acquisition Policy, the Program Executive Office for Aviation (PEOAVN) is responsible for the costs associated with medical MEP integration on Black Hawk helicopters that were not initially produced for MEDEVAC, but require medical MEP modifications/upgrades to support the MEDEVAC mission. MEDEVAC MEP integration on the UH-60V will address obsolescence and reduce the logistics footprint by increasing equipment commonality across the MEDEVAC fleet and will reduce the number of Black Hawk MEDEVAC configurations. Additionally, UH-60V MEDEVAC capabilities will increase when comparing MEDEVAC MEP integration on legacy Black Hawk helicopters. Capability improvements will include simultaneous Rescue Hoist and extended range capability, enabled MEDEVAC Mission Sensor (MMS) use in Arctic conditions, UH-60V Multi-Function Display (MFD) integrated MMS video, and Multi-Function Controller Unit (MFCU) integration of MMS functions.

Independent of the UH-60V Program of Record and Acquisition Program Baseline (APB), incremental RDT&E funding to support integration of a MEDEVAC capability on UH-60V is planned for FY 2019-2022. In accordance with AR 40-60, Medical Materiel Acquisition Policy, the Army's Aeromedical Evacuation capability is funded by two portfolio managers, PEOAVN and the Medical Research Development Command, MRDC. PEOAVN is responsible for the integration of MEDEVAC MEP on the UH-60V. MRDC is responsible for recurring costs to procure kits and resource the installation of MEP kits on UH-60V MEDEVAC helicopters.

SATCOM:

Development and Integration of an airworthiness satellite communications for better coordination, information sharing and situational awareness/situational understanding on UH/HH-60 aircraft.

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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0607136A / <i>Blackhawk Product Improvement Program</i>
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B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	23.039	11.236	5.227	-	5.227
Current President's Budget	22.502	8.300	4.773	-	4.773
Total Adjustments	-0.537	-2.936	-0.454	-	-0.454
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-2.525			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.537	-0.411			
• Adjustments to Budget Years	-	-	-0.454	-	-0.454

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Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0607136A / <i>Blackhawk Product Improvement Program</i>				Project (Number/Name) ES3 / <i>Blackhawk Product Improvement Program</i>			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
ES3: <i>Blackhawk Product Improvement Program</i>	-	22.502	8.300	4.773	-	4.773	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

UH-60V:

The H-60L Digital Blackhawk, now designated as UH-60V, is designed to update the existing H-60L analog architecture to a digital infrastructure enabling the upgraded aircraft to have a similar Pilot-Vehicle Interface (PVI) to the H-60M. The program will address current capability gaps and meet operational requirements by employing an evolutionary acquisition approach to leverage mature technologies that have been successfully integrated on other military aircraft. The program will reduce obsolescence and increase commonality and interoperability by installing a digital cockpit, bussing and upgrading the communication/identification suite, improving navigation guidance, and integrating Aircraft Survivability Equipment (ASE), digital moving map, and Joint Variable Message Format (JVMF) messaging. Continuing funding will provide hardware and software development, training material development, as well as developmental and operational testing.

MEDEVAC:

Beginning in Fiscal Year (FY) 2019, Research Development Technology & Evaluation (RDT&E) funding will also support non-recurring engineering to integrate and qualify MEDEVAC Mission Equipment Package (MEP) into the UH-60V Black Hawk helicopter. This MEDEVAC MEP integration effort is independent of the UH-60V Program of Record and Acquisition Program Baseline (APB). The Surgeon General (TSG) has a requirement for a MEDEVAC capability provided by Black Hawk helicopters that were not initially produced for MEDEVAC, but are designated to support the MEDEVAC mission. In accordance with AR 40-60 Medical Materiel Acquisition Policy, the Program Executive Office for Aviation (PEOAVN) is responsible for the costs associated with medical MEP integration on Black Hawk helicopters that were not initially produced for MEDEVAC, but require medical MEP modifications/upgrades to support the MEDEVAC mission. MEDEVAC MEP integration on the UH-60V will address obsolescence and reduce the logistics footprint by increasing equipment commonality across the MEDEVAC fleet and will reduce the number of Black Hawk MEDEVAC configurations. Additionally, UH-60V MEDEVAC capabilities will increase when comparing MEDEVAC MEP integration on legacy Black Hawk helicopters. Capability improvements will include simultaneous Rescue Hoist and extended range capability, enabled MEDEVAC Mission Sensor (MMS) use in Arctic conditions, UH-60V Multi-Function Display (MFD) integrated MMS video, and Multi-Function Controller Unit (MFCU) integration of MMS functions.

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Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607136A / <i>Blackhawk Product Improvement Program</i>	Project (Number/Name) ES3 / <i>Blackhawk Product Improvement Program</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
<p>Title: UH-60V Product Development</p> <p>Description: The UH-60V program provides an integrated digital map, integrated performance planning, common functionality and commonality of training with UH-60M. Product Development includes all activities related to Hardware and Software development, Prototype Manufacturing (3 units), Training Equipment, Data, and Production Engineering and Planning for the UH60V program. Examples of specific activities include drawing development, work instruction development, prototype builds, Preliminary Design Review (PDR)/Critical Design Review (CDR), Software Engineering Directorate (SED) Simulation Integration Laboratory (SIL) design, Software Development (aircraft and off aircraft), trainers, and training material development.</p>		1.179	-	-
<p>Title: UH-60V Support</p> <p>Description: Support Costs include Systems Engineering/Program Management (SEPM) type activities performed at various test agencies.</p> <p>FY 2021 Plans: Support of UH-60V Publication and Verification post Initial Operational Test and Evaluation (IOT&E).</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: 60V development is anticipated to end in FY21.</p>		1.349	0.350	-
<p>Title: UH-60V Management Services</p> <p>Description: Management Services includes all activities related to Government/Contractor SEPM to include the cost of Government and Contractor personnel supporting the UH-60V program.</p>		1.273	-	-
<p>Title: UH-60V Test & Evaluation</p> <p>Description: The Utility Helicopters Project Office (UHPO) is responsible for day-to-day test management activities to include execution of all developmental tests and support of operational tests for the UH-60V Program. The focal point for test management is the UH-60V Test Lead Engineer who is the chair for the UH-60V Test and Evaluation (T&E) Working-level Integrated Product Team. The UH-60 T&E team ensures integration and coordination of test and data requirements among all agencies involved in the test and acquisition of the UH-60V effort. T&E activities include: AFTD Baseline Flight Testing, IOTE, Cybersecurity and Interoperability tests.</p> <p>FY 2021 Plans: UH-60V Publication and Verification post IOT&E.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement:</p>		1.066	5.081	-

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
60V development is anticipated to end in FY21.				
<p>Title: MEDEVAC MEP Integration Product Development</p> <p>Description: MEDEVAC MEP Integration Product Development.</p> <p>FY 2021 Plans: Continue executing contract with PIF Contractor to perform HW design and SW Design activities for H-60V MEDEVAC MEP Integration effort.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: FY22 funding decrease is due to end of design phase and contract close out.</p>		5.383	0.462	-
<p>Title: MEDEVAC MEP Integration Support</p> <p>Description: Support the HW and SW Design Activities with Airworthiness and Technical data division support.</p> <p>FY 2021 Plans: Support the hardware and software Design Activities with Airworthiness and Technical data division support.</p> <p>FY 2022 Plans: Support the hardware and software Design Activities with Airworthiness and Technical data division support.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: FY22 funding increase is due to effort needed to review all final design documentation and test data/reports to support a Fielding Airworthiness Release.</p>		0.518	0.840	1.139
<p>Title: MEDEVAC MEP Management Services</p> <p>Description: Management Services includes all activities related to Government/Contractor SEPM to include the cost of Government and Contractor personnel supporting the H-60V MEDEVAC MEP Integration Program.</p> <p>FY 2021 Plans: Provide Management Services with Government / Contractor SEPM to include the cost of the Government and contractor personnel supporting the H-60V MEDEVAC MEP Integration Program.</p> <p>FY 2022 Plans: Provide Management Services with Government / Contractor SEPM to include the cost of the Government and contractor personnel supporting the H-60V MEDEVAC MEP Integration Program.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement:</p>		1.808	0.555	0.486

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
FY22 funding decrease is due to transition from design to final AWR documentation reviews and closeout.			
<p>Title: MEDEVAC Test & Evaluation</p> <p>Description: The UHPO is responsible for day-to-day test management activities to include the execution of all developmental tests for the UH-60V MEDEVAC program. As part of this responsibility, UHPO manages the Test and Evaluation Working Group with a UH-60V MEDEVAC Test lead. He/she ensures the test agencies are coordinated, test plans are created, instrumentation is developed and installed, and airworthiness approvals are obtained. He/she tracks status of the testing throughout the program, assists in resolving issues, and coordinates approval of the test data and test reports. For this effort, the UHPO will manage system-level testing necessary to receive a fielding AWR, including Electromagnetic Compatibility (EMC), Noise Floor, Electromagnetic Vulnerability (EMV), and ground system checkouts and flight testing of the FLIR, Hoist, and IMMSS.</p> <p>FY 2021 Plans: MEDEVAC plans to implement funding at the Redstone Test Center (RTC) to perform planning for and execution of system-level ground and flight testing and instrumentation. The flight testing will focus on proper operation of the FLIR and the new Pilot Vehicle Interface (PVI) for the FLIR geopoint and geolocate functionality. It will also focus on safe operation of the hoist with payload. This effort will be managed by UHPO PD MEDEVAC.</p> <p>FY 2022 Plans: MEDEVAC plans to implement funding at RTC to continue execution of continued system-level testing and a delta operational test.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: FY22 funding increase is due to the system-level test activities and the operational testing to be performed in FY22.</p>	-	1.012	3.148
<p>Title: SATCOM</p> <p>Description: SATCOM: Development and Integration of an airworthiness satellite communications for better coordination, information sharing and situational awareness/situational understanding on UH/HH-60 aircraft</p>	9.926	-	-
Accomplishments/Planned Programs Subtotals	22.502	8.300	4.773

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• A05009: <i>UH-60 Black Hawk L and V Models</i>	169.290	165.197	166.205	-	166.205	-	-	-	-	-	-

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

<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• Q13015: <i>MEDICAL EVACUATION</i>	-	-	12.314	-	12.314	-	-	-	-	-	-

Remarks
 Q13015000 MEDICAL EVACUATION provides procurement funding for MEDEVAC MEP capability on UH-60 helicopters. Per requirements, starting in FY 2022, Q13015000 will resource procurement of MEDEVAC MEP kits and installations at a rate of 15 aircraft per year through FY 2034, which is the estimated year the AAO of 200 UH-60V MEDEVAC is reached. Figures shown above reflect the full FL8D/Q13015000/OPA/MEDICAL EVACUATION funding line, which includes the production kits and MEP installation costs at CCAD. UH-60V MEDEVAC MEP Q13015000 OPA requirements are \$5.7 million in FY 2022, \$6.1 million in FY 2023, and \$6.2 million in FY 2024. Total MEDEVAC MEP requirement in Q1301500 through FY 2034 is \$88.1M.

D. Acquisition Strategy

The UH-60V program plans to leverage various test agencies, to design, integrate and build three production representative aircraft. The GOGO facility uses a cost plus contract vehicle and conducted full and open competition for the selection of the avionics solution provider.

Independent of the UH-60V Program of Record and Acquisition Program Baseline (APB), the MEDEVAC MEP program plans to utilize the U. S. Army Development Command (DEVCOM) Aviation and Missile Center (AvMC) and Prototype Integration Facility (PIF) to design and integrate MEDEVAC capability into the UH-60V. By leveraging the same GOGO facility utilized by the UH-60V program, efficient design, software development, integration, and testing will occur by eliminating redundant tasks and employing experienced government resources already in possession of pertinent UH-60V technical data required to support the MEDEVAC MEP nonrecurring engineering (NRE) effort. Prototype, validation, and verification of technical publications, as well as airworthiness testing, will be accomplished following completion of the UH-60V IOT&E, at which time up to two UH-60V EDM aircraft will be allocated to the MEDEVAC MEP program. Following completion of MEDEVAC MEP NRE, technical products will feed production and fielding contracts, which will be resourced by the U.S. Army Medical Department, AMEDD. Procurement funding is programmed on Q13015000 MEDICAL EVACUATION.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607136A / <i>Blackhawk Product Improvement Program</i>	Project (Number/Name) ES3 / <i>Blackhawk Product Improvement Program</i>
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Management Services (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
UH-60V - Organic	MIPR	Various : Redstone Arsenal, AL	11.931	0.860	Oct 2019	-		-		-		-	0.000	12.791	-
UH-60V - Contractor	C/LH	Various : Redstone Arsenal, AL	9.647	0.413	Oct 2019	-		-		-		-	0.000	10.060	-
MEDEVAC MEP Integration - Organic	MIPR	Various : Redstone Arsenal	1.024	1.008	Oct 2019	0.121	Feb 2021	0.288	Oct 2021	-		0.288	Continuing	Continuing	-
MEDEVAC MEP Integration - Contractor	C/LH	Various : Redstone Arsenal, AL	0.705	0.800	Oct 2019	0.434	Feb 2021	0.198	Oct 2021	-		0.198	Continuing	Continuing	-
Subtotal			23.307	3.081		0.555		0.486		-		0.486	Continuing	Continuing	N/A

Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
UH-60V Development Engineering	C/CPFF	CCDC AvMC : Redstone Arsenal, AL	169.277	1.179	Oct 2019	-		-		-		-	0.000	170.456	-
MEDEVAC MEP Product Development and Integration	C/CPFF	DEVCOM AvMC, PIF : Redstone Arsenal AL	14.131	5.383	Oct 2019	0.462	Feb 2021	-		-		-	0.000	19.976	-
SATCOM	TBD	To Be Determined : Redstone Arsenal AL	-	9.926	Jul 2020	-		-		-		-	0.000	9.926	-
Subtotal			183.408	16.488		0.462		-		-		-	0.000	200.358	N/A

Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
UH-60V	MIPR	Various : Redstone Arsenal, AL	16.133	1.349	Oct 2019	0.350	Feb 2021	-		-		-	0.000	17.832	-
MEDEVAC MEP Integration Support	MIPR	Various : Redstone Arsenal AL	0.592	0.518	Oct 2019	0.840	Feb 2021	1.139	Oct 2021	-		1.139	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607136A / <i>Blackhawk Product Improvement Program</i>	Project (Number/Name) ES3 / <i>Blackhawk Product Improvement Program</i>
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Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
Subtotal			16.725	1.867		1.190		1.139		-		1.139	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
UH-60V	MIPR	Redstone Test Center : Redstone Arsenal, AL	16.090	1.066	Oct 2019	5.081	Oct 2021	-		-		-	0.000	22.237	-
MEDEVAC	MIPR	Redstone Test Center : Redstone Arsenal, AL	-	-		1.012	Feb 2021	3.148	Oct 2021	-		3.148	Continuing	Continuing	-
Subtotal			16.090	1.066		6.093		3.148		-		3.148	Continuing	Continuing	N/A

Remarks
Government Support

	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	239.530	22.502	8.300	4.773	-	4.773	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army		Date: May 2021
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607136A / <i>Blackhawk Product Improvement Program</i>	Project (Number/Name) ES3 / <i>Blackhawk Product Improvement Program</i>

Event Name	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
UH-60V Development (Research, Development, Test, and Evaluation)	UH-60V EMD (Product Development)																											
UH-60V Support (RDTE)	Support																											
UH-60V Test and Evaluation (RDTE)	Test and Evaluation																											
UH-60V Management Services (RDTE)	Management Services																											
UH-60V Future Integration Efforts (RDTE)					Integration																							
UH-60V Digital Modifications (Low Rate Initial Production (LRIP))	UH-60V LRIP																											
UH-60V Digital Modifications Full Rate Production (APA) (FY22-FY36)									UH-60V Production (FY22-FY36)																			
MEDEVAC MEP Integration Management Services (RDTE)	MEDEVAC MEP Integration Management Services																											
MEDEVAC MEP Product Development and Integration (RDTE)	MEDEVAC MEP Product Development and Integration																											
MEDEVAC MEP Integration Support (RDTE)	MEDEVAC MEP Integration Support																											
MEDEVAC MEP Integration Test and Evaluation (RDTE)					MEDEVAC MEP Integration Test and Evaluation																							
Satellite Communications Integration Development					SATCOM Integration Development																							

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army		Date: May 2021
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
UH-60V Development (Research, Development, Test, and Evaluation (RDTE))	4	2014	4	2020
UH-60V Support (RDTE)	1	2014	4	2021
UH-60V Test and Evaluation (RDTE)	4	2015	4	2021
UH-60V Management Services (RDTE)	1	2014	4	2021
UH-60V Future Integration Efforts (RDTE)	1	2021	4	2022
UH-60V Digital Modifications (Low Rate Initial Production (LRIP); (APA))	4	2018	4	2021
UH-60V Digital Modifications Full Rate Production (APA) (FY22-FY36)	1	2022	4	2036
MEDEVAC MEP Integration Management Services (RDTE)	1	2019	4	2022
MEDEVAC MEP Product Development and Integration (RDTE)	1	2019	4	2022
MEDEVAC MEP Integration Support (RDTE)	4	2019	4	2022
MEDEVAC MEP Integration Test and Evaluation (RDTE)	2	2021	4	2022
Satellite Communications Integration Development	4	2020	4	2021