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

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605278F / HC/MC-130 Recap RDT&E
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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	0.000	16.523	19.491	46.796	0.000	46.796	-	-	-	-	-	-
675006: <i>HC/MC-130 Recap</i>	0.000	16.523	5.739	0.660	0.000	0.660	-	-	-	-	-	-
675910: <i>Block 8.X</i>	0.000	0.000	13.752	46.136	0.000	46.136	-	-	-	-	-	-

**Program MDAP/MAIS Code:** 257

**Note**  
 This program, BA 7, PE 0605278F, project 675910, Communications Modernization Phase II, is a new start.

In FY 2022, PE 0605278F, (HC/MC-130J Recap RDT&E), Project 675006, (HC/MC-130 Recap) efforts were transferred to, Project 675910, (Block 8.X), in order to combine the Communication Modernization funding to execute a single Communications Modernization program for AC/HC/MC-130J. The HC-130J 7.0/8.1 program and the AC/MC-130J 7.0/8.X program include critical upgrades needed as a baseline requirement for the Communications Modernization radio/software architecture.

**A. Mission Description and Budget Item Justification**  
 HC/MC-130 Recapitalization provides a Medium lift tanker aircraft to replace and augment the aging USAF fleet of combat rescue HC-130P/N and special operations MC-130E/H/P/W aircraft for the Combat Search and Rescue (CSAR) forces, and Air Force Special Operation Forces, which are experiencing airworthiness, maintainability, and operations limitations. The HC/MC-130 Recap incorporates production line modifications to the C-130J common/baseline configuration to convert them to the HC/MC model. The program also funds post-production modifications to add special mission systems required for behind-enemy-line operations required of CSAR and Special Operations aircraft.

The Research, Development, Testing and Evaluation (RDT&E) portion of the Recap program funds engineering support and studies to conduct rapid development activities, and develops major "block" upgrades to deliver specific increments of capability in common configurations across the fielded fleet, which includes AC/HC/MC-130J and potentially EC-130Js for future mods. The RDT&E activities in PE 0605278F currently include but are not limited to Block 7.0/8.1 and Communications Modernization. Block 7.0/8.1 leverages the baseline C-130J (PE0401132F) Block 7.0/8.1 upgrade, but funds unique AC/HC/MC-130J integration requirements. The Block 7.0/8.1 project will deliver Communication, Navigation and Surveillance/Air Traffic Management (CNS/ATM) capabilities required for compliance with evolving international airspace standards. It also incorporates a new Flight Management System (FMS) that allows AC/HC/MC-130J aircraft to maintain hardware and software commonality with the C-130J Enterprise. The remaining capabilities 7.0/8.1 provides are Link-16, Civil GPS Navigation and Data Link, Identification Friend or Foe (IFF) Transponder Mode-5, and Automatic Dependent Surveillance-Broadcast Out (ADS-B Out) The USAF has also initiated the Communications Modernization program to comply with Mobile User Objective System (MUOS) and VINSON/ANDVT Cryptographic Modernization (VACM) mandates, as well as deliver Second-generation Anti-jam Tactical UHF Radio for NATO (SATURN), Single Channel Ground and Airborne Radio System (SINCGARS), and HF Modernization capabilities to resolve DMS issues.

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2022 Air Force	<b>Date:</b> May 2021
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<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605278F / HC/MC-130 Recap RDT&E
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The Air Force decoupled IFF Mode 5 and ADS-B from the 7.0/8.1 program to accelerate fielding and address 2020 mandates. Additionally, The Air Force recently separated the HC-130J and MC-130J 7.0/8.1 programs to address MC-130J availability for other modifications. Due to technical inter-dependencies of the Communications Modernization program on some sub-systems delivered in the Block 7.0/8.1 program, AC/MC-130J 7.0/8.1 requirements will be addressed through both the Communications Modernization program and a future AC/MC-130J 7.0/8.x program. That is, some 7.0/8.1 requirements/subsystems must be accelerated for the new communications systems to function properly; those will now be executed under the Communications Modernization program. The later AC/MC Block 8.x program will then address the remaining requirements.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver the HC/MC-130 Recap weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605831F. In FY20 \$0.334M was expended for civilian pay expenses in this program element, and in FY21 \$0.374M is forecasted for civilian pay expenses in this program element.

The program may also include any Contractor Manpower Equivalent (CME)/A&AS support deemed necessary to support the program objectives. The HC/MC-130 Recap RDT&E permits the initiation and employment of rapid acquisition authorities to respond to emerging threats and requirements as needed.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>
Previous President's Budget	17.218	24.705	52.502	0.000	52.502
Current President's Budget	16.523	19.491	46.796	0.000	46.796
Total Adjustments	-0.695	-5.214	-5.706	0.000	-5.706
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-5.214			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	-0.090	0.000			
• SBIR/STTR Transfer	-0.605	0.000			
• Other Adjustments	0.000	0.000	-5.706	0.000	-5.706

**Change Summary Explanation**

FY 2021 funding was reduced by \$5.214 million for Congressional Direction Reductions for Block 8.X Acquisition Strategy (\$3.066 million) and Forward Financing (\$2.112 million).

FY 2022 funding was reduced by \$5.706 million to account for the availability of prior year execution balances.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Air Force										<b>Date:</b> May 2021		
<b>Appropriation/Budget Activity</b> 3600 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0605278F / HC/MC-130 Recap RDT&E				<b>Project (Number/Name)</b> 675006 / HC/MC-130 Recap			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
675006: HC/MC-130 Recap	0.000	16.523	5.739	0.660	0.000	0.660	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

**Note**

In FY 2022, PE 0605278F, (HC/MC-130J Recap RDT&E), Project 675006, (HC/MC-130 Recap) efforts were transferred to, Project 675910, (Block 8.X), in order to combine the Communication Modernization funding to execute a single Communications Modernization program for AC/HC/MC-130J. The HC-130J 7.0/8.1 program and the AC/MC-130J 7.0/8.X program include critical upgrades needed as a baseline requirement for the Communications Modernization radio/software architecture.

**A. Mission Description and Budget Item Justification**

HC/MC-130 Recapitalization will replace and augment the aging USAF fleets of combat rescue HC-130P/N and special operations MC-130E/P/H aircraft which are experiencing airworthiness, maintainability and operational limitations.

The RDT&E portion of the Recap program funds three major thrusts to include but not limited to Continuous Improvement Program, HC Block 7.0/8.1, and Governmental Test.

The HC-130J Recap RDT&E activity integrates Block 7.0/8.1 into a HC-130J, provides program capability updates, studies, and integration with other HC-130J unique modifications. The HC-130J Block 7.0/8.1 program follows the same "Block Upgrade" strategy being used in the C-130J program (PE 0401132F).

The USAF will be fielding the IFF Mode 5, ADS-B Out and Link-16 portions of Block 7.0/8.1 ahead of the remaining 36 capabilities in order to comply with the 2020 mandates.

The USAF has also initiated the Communications Modernization program to comply with Mobile User Objective System (MUOS) and VINSON/ANDVT Cryptographic Modernization (VACM) mandates, as well as deliver Second-generation Anti-jam Tactical UHF Radio for NATO (SATURN), Single Channel Ground and Airborne Radio System (SINCGARS), and HF Modernization capabilities to resolve DMS issues.

The HC Block 7.0/8.1 Recap program is scheduled to complete development in 2021.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver the HC/MC-130 Recap weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605831F. In FY20 \$0.334M was expended for civilian pay expenses in this program element, and in FY21 \$0.374M is forecasted for civilian pay expenses in this program element.

RDT&E permits the initiation and employment of rapid acquisition authorities to respond to emerging threats and requirements as needed.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Air Force		<b>Date:</b> May 2021		
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0605278F / HC/MC-130 Recap RDT&E	<b>Project (Number/Name)</b> 675006 / HC/MC-130 Recap		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<p><b>Title:</b> HC/MC-130 Recap Continuous Improvement Program (CIP)</p> <p><b>Description:</b> Recurring Software and hardware enhancements to address evolving requirements for Special Operations Forces and Personnel Recovery missions. These enhancements will be incorporated in both production and fielded aircraft. These enhancements will include, but are not limited to, parallel operational flight program (OFP) updates.</p> <p><b>FY 2021 Plans:</b> Supports continuous improvement cycle of both hardware and software of multiple onboard systems</p> <p><b>FY 2022 Plans:</b> Supports continuous improvement cycle of both hardware and software of multiple onboard systems</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> N/A</p>		0.000	0.001	0.001
<p><b>Title:</b> HC-130 Block 7.0/8.1</p> <p><b>Description:</b> Combined software/hardware upgrade for Block 7.0/8.1. Block 7.0/8.1 includes, but is not limited to: Link 16, a new Flight Management System (FMS), Civil Global Positioning System (GPS) Navigation, a Special Mission Processor Interface (SMP-I), Identification Friend or Foe (IFF) Mode 5, Civil Data Link, Automatic Dependent Surveillance-Broadcast Out (ADS-B-Out) and the CSO 2.5.</p> <p><b>FY 2021 Plans:</b> Operational testing and technical data package.</p> <p><b>FY 2022 Plans:</b> HC Block 7.0/8.1 Recap program is scheduled to complete development in 2021.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Funding decreased due to the HC Block 7.0/8.1 Recap program being scheduled to complete NRE in FY21 and finish development in early FY22.</p>		16.133	5.625	0.113
<p><b>Title:</b> Government Test Support</p> <p><b>Description:</b> Test and evaluation planning, conduct, and support to include MITRE for developmental and operational testing.</p> <p><b>FY 2021 Plans:</b> Development and operational testing for HC-130J Block 7.0/8.1 DT&amp;E as well as communication modernization testing.</p> <p><b>FY 2022 Plans:</b></p>		0.390	0.113	0.546

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0605278F / HC/MC-130 Recap RDT&E	<b>Project (Number/Name)</b> 675006 / HC/MC-130 Recap

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
Development and operational testing for communications modernization. DT&E as well as communication modernization testing.			
<b><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i></b> Funding increased due to JTIC testing and completion of the test program.			
<b>Accomplishments/Planned Programs Subtotals</b>	16.523	5.739	0.660

**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>
• APAF 05 Line Item HCMC00: <i>HC/MC-130 Modifications</i>	41.820	76.573	147.826	-	147.826	-	-	-	-	-	-
• APAF 02 Line Item <i>C-130JM: MC-130J</i>	796.544	385.107	220.049	-	220.049	-	-	-	-	-	-

**Remarks**

**D. Acquisition Strategy**

Lockheed Martin is the primary contractor for Research and Development work in support of the HC/MC-130J Recap program. Block 7.0/8.1 strategy takes the common core Block 7.0/8.1 developed in the C-130J program and integrates it into the HC-130J. Block 7.0/8.1 will also integrate with HC- unique mods. The C-130J ADS-B Out program includes all C-130J variants.

Development work done to date on the HC-130J Recap program has been on Cost Plus Award Fee (CPAF) and Cost Plus Incentive Fee (CPIF) type contracts.

The Continuous Improvement Program (CIP) acquisition strategy is developed on an as needed basis.

See Communications Modernization Acquisition strategy under the Block 8.X BPAC 675910.

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

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0605278F / HC/MC-130 Recap RDT&E	<b>Project (Number/Name)</b> 675006 / HC/MC-130 Recap
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<b>Product Development (\$ in Millions)</b>				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			
HC/MC-130 Recap Continuous Improvement Program (CIP)	SS/CPIF	Lockheed Martin : Marietta, GA	0.000	0.000		0.001	Sep 2021	0.001	Mar 2022	-		0.001	-	-	1.198
HC-130 Recap Block 7.0/8.1	SS/CPIF	Lockheed Martin : Marietta, GA	0.000	15.799	Nov 2019	5.251	Nov 2020	0.113	Nov 2021	-		0.113	-	-	81.441
<b>Subtotal</b>			0.000	15.799		5.252		0.114		-		0.114	-	-	N/A

<b>Support (\$ in Millions)</b>				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			
Direct Site Civilian Pay	C/CPAF	Not specified. : TBD	0.000	0.334		0.374		-		-		-	-	-	-
<b>Subtotal</b>			0.000	0.334		0.374		-		-		-	-	-	N/A

<b>Test and Evaluation (\$ in Millions)</b>				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			
Government Support Test	RO	46th Test Wing: EAFB, FL : TBD	0.000	0.390	Mar 2020	0.113	Apr 2021	0.546	Nov 2021	-		0.546	-	-	-
<b>Subtotal</b>			0.000	0.390		0.113		0.546		-		0.546	-	-	N/A

			Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>			0.000	16.523	5.739	0.660	-	0.660	-	-	N/A

**Remarks**

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**Exhibit R-4, RDT&E Schedule Profile: PB 2022 Air Force** **Date:** May 2021

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0605278F / HC/MC-130 Recap RDT&E	<b>Project (Number/Name)</b> 675006 / HC/MC-130 Recap
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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

<b>HC/MC-130 Recap Development</b>	
HC-130J Government Testing	
HC-130 RECAP Block 7.0/8.1 Development	
Continuous Improvement Program (CIP)	

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

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0605278F / HC/MC-130 Recap RDT&E	<b>Project (Number/Name)</b> 675006 / HC/MC-130 Recap
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>HC/MC-130 Recap Development</i></b>				
HC-130J Government Testing	1	2020	2	2022
HC-130 RECAP Block 7.0/8.1 Development	3	2020	1	2022
Continuous Improvement Program (CIP)	2	2020	4	2022

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**Exhibit R-2A, RDT&E Project Justification:** PB 2022 Air Force **Date:** May 2021

Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0605278F / HC/MC-130 Recap RDT&E				Project (Number/Name) 675910 / Block 8.X			
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
675910: <i>Block 8.X</i>	0.000	0.000	13.752	46.136	0.000	46.136	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

This program, BA 7, PE 0605278F, project 675910, Communications Modernization Phase II, is a new start.

In FY 2022, PE 0605278F, (HC/MC-130J Recap RDT&E), Project 675006, (HC/MC-130 Recap) efforts were transferred to, Project 675910, (Block 8.X), in order to combine the Communication Modernization funding to execute a single Communications Modernization program for AC/HC/MC-130J. The HC-130J 7.0/8.1 program and the AC/MC-130J 7.0/8.X program include critical upgrades needed as a baseline requirement for the Communications Modernization radio/software architecture.

**A. Mission Description and Budget Item Justification**

This project funding is intended to execute system upgrades for AC/HC/MC-130J aircraft (with plans to include EC-130J upgrades in the future). The upgrades currently include but are not limited to AC/MC-130J 7.0/8.1 (i.e., Block 8.X) and Communications Modernization as well as studies and integration activities required for special mission 130J aircraft.

The USAF has also initiated the Communications Modernization program to comply with Mobile User Objective System (MUOS) and VINSON/ANDVT Cryptographic Modernization (VACM) mandates, as well as deliver Second-generation Anti-jam Tactical UHF Radio for NATO (SATURN), Single Channel Ground and Airborne Radio System (SINCGARS), and HF Modernization capabilities to resolve DMS issues.

Near-term, the Air Force intends to execute critical portions of AC/MC-130J 7.0/8.1 program as part of the Communications Modernization program. The remaining AC/MC-130J 7.0/8.1 capabilities (i.e., those not needed to execute Communications Modernization) will be installed on the AC and MC-130J under a future RDT&E program within this project, projected to begin in FY25, as well as the potential EC-130J requirement in the future.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver the HC/MC-130 Recap weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605831F. In FY20 0.334M was expended for civilian pay expenses in this program element, and in FY21 0.374M is forecasted for civilian pay expenses in this program element.

RDT&E permits the initiation and employment of rapid acquisition authorities to respond to emerging threats and requirements as needed.

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

	FY 2020	FY 2021	FY 2022
<b>Title:</b> Communications Modernization Phase I	0.000	13.752	28.456

**UNCLASSIFIED**

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<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0605278F / HC/MC-130 Recap RDT&E	<b>Project (Number/Name)</b> 675910 / Block 8.X		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<p><b>Description:</b> Complies with Mobile User Objective System (MUOS) and VINSON/ANDVT Cryptographic Modernization (VACM) mandates, which will allow for continuous secure voice, data, video, network-centric, and satellite communications in real-time as the satellite constellation transitions and cryptographic algorithms are modernized.</p> <p><b>FY 2021 Plans:</b> Begin NRE EMD activities.</p> <p><b>FY 2022 Plans:</b> Continue NRE EMD activates.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Funding increased due to Communications Modernization requirements/subsystems must be accelerated for the new communications systems to function properly.</p>				
<p><b>Title:</b> Communications Modernization Phase II</p> <p><b>Description:</b> Addresses Second-generation Anti-jam Tactical UHF Radio for NATO (SATURN), Single Channel Ground and Airborne Radio System (SINGARS), and HF Modernization capabilities to resolve DMS issues, which will allow for continuous UHF, VHF, and HF communications in real-time.</p> <p>Due to technical inter-dependencies of the Communications Modernization program on some sub-systems delivered in the Block 7.0/8.1 program, AC/MC-130J 7.0/8.1 requirements will be addressed through both the Communications Modernization program and a future AC/MC-130J 7.0/8.x program. REMOVE: That is, some 7.0/8.1 requirements/subsystems must be accelerated for the new communications systems to function properly; those will now be executed under the Communications Modernization program.</p> <p><b>FY 2021 Plans:</b> N/A</p> <p><b>FY 2022 Plans:</b> Phase II EMD scheduled to begin in FY22</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Funding increased due to the start of COMMs MOD Phase II activities.</p>		-	0.000	17.315
<p><b>Title:</b> Government Test Support</p> <p><b>Description:</b> Test and evaluation planning, conduct and support to included MITRE for developmental and operational testing for Phase I and Phase II activities</p>		-	0.000	0.364

**UNCLASSIFIED**

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<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0605278F / HC/MC-130 Recap RDT&E	<b>Project (Number/Name)</b> 675910 / Block 8.X

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<b>FY 2021 Plans:</b> N/A  <b>FY 2022 Plans:</b> Development and operational testing in support of Communications modernization.  <b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Funding increased due to the COMMs MOD test program.			
<b>Title:</b> Continuous Improvement (CIP)  <b>Description:</b> Continuous Improvement projects to include by not limited to studies and other research projects.  <b>FY 2021 Plans:</b> N/A  <b>FY 2022 Plans:</b> Supports continuous improvement cycle of both hardware and software of multiple onboard systems  <b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Funding increased to support CIP efforts.	-	0.000	0.001
<b>Accomplishments/Planned Programs Subtotals</b>	0.000	13.752	46.136

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<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>
• APAF 05 HCMC00: HC/ MC-130 Modifications	0.000	0.000	2.437	-	2.437	-	-	-	-	-	-
<b>Remarks</b>											

**D. Acquisition Strategy**  
Block 8.X strategy takes the common core Block 7.0/8.1 developed in the C-130J program and integrates it into the AC/MC-130J configurations as well as the potential EC-130J requirement in the future.

The Air Force intends to acquire critical portions of AC/MC-130J 7.0/8.1 program as part of the Communications Modernization program in order to address critical Second-generation Anti-jam Tactical UHF Radio for NATO (SATURN), Single Channel Ground and Airborne Radio System (SINCGARS), and HF Modernization capabilities to resolve DMS issues, which will allow for continuous UHF, VHF, and HF communications in real-time.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation/Budget Activity</b>	<b>R-1 Program Element (Number/Name)</b>	<b>Project (Number/Name)</b>
3600 / 7	PE 0605278F / <i>HC/MC-130 Recap RDT&amp;E</i>	675910 / <i>Block 8.X</i>

The remaining AC/MC-130J 7.0/8.1 capabilities (i.e., those not needed to execute Communications Modernization) will be integrated on to the AC/MC-130J under a future RDT&E program, projected to begin in FY25, as well as the potential EC-130J requirement in the future.



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**Exhibit R-4, RDT&E Schedule Profile: PB 2022 Air Force** **Date:** May 2021

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0605278F / HC/MC-130 Recap RDT&E	<b>Project (Number/Name)</b> 675910 / Block 8.X
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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

<b>Block 8.X</b>	
Communications Modernization Phase I	
Communications Modernization Phase II	
Government Test Support	

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

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0605278F / HC/MC-130 Recap RDT&E	<b>Project (Number/Name)</b> 675910 / Block 8.X
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Block 8.X</b>				
Communications Modernization Phase I	4	2021	3	2023
Communications Modernization Phase II	3	2022	2	2024
Government Test Support	4	2021	4	2026