

**UNCLASSIFIED**

**Exhibit R-2, RDT&E Budget Item Justification:** PB 2023 Air Force **Date:** April 2022

<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 0101126F / B-1B Squadrons
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	-	15.276	39.127	13.144	0.000	13.144	14.084	16.321	2.004	0.008	0.000	99.964
675344: <i>B-1B Modernization</i>	-	15.276	39.127	13.144	0.000	13.144	14.084	16.321	2.004	0.008	0.000	99.964
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

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

The B-1B Lancer is a swing-wing, supersonic, long-range conventional bomber. It carries the largest payload of both guided and unguided weapons in the AF inventory. The multi-mission B-1B is the backbone of America's long-range conventional bomber force and can rapidly deliver massive quantities of precision (and non-precision) weapons against any adversary, anywhere in the world, at any time.

The B-1B modernization projects alleviate aircraft obsolescence issues due to Diminishing Manufacturing Sources and Material Shortages (DMSMS) while at the same time providing improved capabilities to the B-1B weapon system that require significant hardware and software development and testing.

The total B-1B inventory is 45 aircraft.

**MULTIFUNCTIONAL INFORMATION DISTRIBUTION SYSTEM - JOINT TACTICAL RADIO SYSTEMS (MIDS-JTRS):**

MIDS-JTRS replaces the existing MIDS-LVT (1) (Low Volume Terminal) Link 16 terminal to meet the 2022 NSA Crypto Modernization (CM) Device Cease Key as well as DoD Link 16 mandate/directive and FAA/NTIA Frequency Remap mandate.

These requirements must be met to replace the existing MIDS-LVT (1) to resolve all LVT (1) deficiencies as well as add combat capability enhancements by implementing Link 16 Enhanced Throughput (LET) and Concurrent Multi-Netting (CMN-4) with Concurrent Retention Receive (CRR). MIDS-JTRS will provide enhanced data link capability, improving situational awareness and allowing rapid in-flight re-targeting in a cooperative combat environment. Program focuses on eliminating LVT (1) deficiencies as well as delivering all mandates and directives.

**RADIO-CRYPTO MODERNIZATION:**

The B-1B Radio Crypto program originates from JROCM 040-11, VACM Cease Key CED-026-11, UHF SATCOM (Ultra-high frequency Satellite Communication) Decommission and Cease Key for Demand Assigned Multi Access (DAMA) Orderwire, HAVE QUICK II Cease use date, and DoD CIO Mobile User Objective System (MUOS) transition directive. If the requirements/directives are not met, B-1B will lose its secure line of sight, beyond line of sight, and anti-jam communication with ground and air forces. The initiative will replace the existing ARC-210 RT-1797 and ARC-210 RT-1851 with common ARC-210 next generation radios. Additionally, the program will provide MUOS capability. The program will be implemented in two increments.

- Radio-Crypto ARC-210 (formerly increment 1) addresses the NSA mandate by providing crypto compliant radios and second generation anti-jam Ultra High-Frequency radio for NATO (SATURN.) This increment will replace the two obsolete ARC-210 Gen 3/4 radios with modernized ARC-210 Gen 6 radios and associative aircraft wiring/software in order to support the new radios.

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<p>- Radio-Crypto MUOS (formerly Increment 2) incorporates MUOS Satellite Communication capability that supports the DoD Chief Information Officer (CIO) directive to move all DoD assets to MUOS constellation (70% by FY26). This increment will lay in Ethernet cable required by MUOS Data (J-REAP C), install MUOS ancillaries (HPA/LNA), and additional software to execute MUOS capability on the aircraft.</p> <p><b>HYPERSONIC INTEGRATION (HWICC)</b> The FY22 Conference Appropriations, detailed in the Congressional Conference Reports of Interest under RTD&amp;E, AF B-1 squadrons, added a 10M appropriation PB request for hypersonic weapon integration. This appropriation amount limits the ability to fully demonstrate and qualify an operational capability on the B-1B, but does provide converging opportunities to aggressively reconnoiter an excursion to revitalize operational external-carry capability on the B-1B that supports hypersonic weapons.</p> <p><b>B-1B AFMC TEST ASSETS:</b> The B-1B AFMC Test Assets project will provide funding for the test aircraft, manpower, and facilities at the Air Force Test Center located at Edwards Air Force Base (AFB), California. This will support the developmental testing and sustainment needs of the B-1B weapon system. It funds support for Programmed Depot Maintenance (PDM) for one test aircraft (A/C 85-0075), which is performed at Tinker AFB, Oklahoma. Funds also support analysis, documentation, and related activities necessary to establish a program of record and support the B-1B weapon system. Additionally, other costs include Program Management Administration (PMA) and centralized support as well as initiatives for anticipated weapon system enhancements (to include efforts to improve weapon system operational capabilities, safety, supportability, maintainability, reliability, digital engineering and total cost of ownership) are included.</p> <p><b>GAP AND INTEGRATION ANALYSIS:</b> Program funds cover engineering/planning studies, related engineering efforts, and the auxiliary equipment needed for development projects that have not yet been fielded. Funds may be used to resolve emerging safety of flight and DMSMS issues, accommodate technology insertion, and fulfill FAA (or other) mandates necessary to ensure continued aircrew safety and mission effectiveness. Costs include PMA costs, total ownership cost, as well as initiatives for anticipated weapon system enhancements (to include efforts for improving weapon system operational capabilities, safety, supportability, maintainability, reliability, digital engineering and total cost of ownership). All B-1B development projects support planned requirements for unique identification in their production phases.</p> <p>B-1B funding also supports innovation activities to include studies, analyses, requirements definition, digital engineering initiatives and quick-reaction capability prototypes/demonstrations to accelerate planning for technology transition, technology insertion, and future acquisition programs.</p> <p>Funds may be used to resolve emerging safety of flight and diminishing manufacturing sources issues, accommodate technology insertion and fulfill FAA or other mandates necessary to ensure continued aircrew safety and mission effectiveness. Funds may be used to address emerging and short-notice DMSMS issues.</p> <p>This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605831F. In FY2021 3.07M was expended for civilian pay expenses in this program element, and in FY2022 3.7M is forecasted for civilian pay expenses in this program element.</p>		

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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 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Previous President's Budget	15.737	29.127	0.000	0.000	0.000
Current President's Budget	15.276	39.127	13.144	0.000	13.144
Total Adjustments	-0.461	10.000	13.144	0.000	13.144
• Congressional General Reductions	-0.461	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	10.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	13.144	0.000	13.144

**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

**Project:** 675344: *B-1B Modernization*

Congressional Add: *Hypersonic Integration*

Congressional Add Subtotals for Project: 675344

Congressional Add Totals for all Projects

	<b>FY 2021</b>	<b>FY 2022</b>
	-	10.000
	-	10.000
	-	10.000

**Change Summary Explanation**

The FY 2022 President's Budget submittal did not reflect FY 2023 through FY 2026 funding. Therefore, an explanation of the change between the two budget positions for FY2023 cannot be made in a relevant manner.

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

	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Title:</b> B-1 AFMC Test Assets	0.000	19.222	0.000	0.000	0.000
<b>Description:</b> The B-1 Test Asset effort will provide funding for the test aircraft, manpower, and facilities at the Air Force Test Center located at Edwards Air Force Base (AFB), California. This will support the developmental testing and sustainment needs of the B-1B weapon system. It funds support for Programmed Depot Maintenance (PDM) for one test aircraft (A/C 85-0075), which is performed at Tinker AFB, Oklahoma.					

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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 0101126F / <i>B-1B Squadrons</i>								
<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>										
<p>Funds also support analysis, documentation, and related activities necessary to establish a program of record and support the B-1B weapon system. Additionally, other costs include PMA and centralized support as well as initiatives for anticipated weapon system enhancements (to include efforts to improve weapon system operational capabilities, safety, supportability, maintainability, reliability, digital engineering and total cost of ownership) are included.</p> <p>Funding may be used to resolve or address emerging safety of flight and Diminishing Manufacturing Sources (DMS) issues, accommodate technology insertion and fulfill FAA or other mandates necessary to ensure continued aircrew safety and mission effectiveness.</p> <p><b>FY 2022 Plans:</b> Fully fund one test aircraft Programmed Depot Maintenance (PDM) to support developmental activities. PDM for test aircraft 85-0075 will be performed at Tinker AFB, OK.</p> <p><b>FY 2023 Base Plans:</b> N/A</p> <p><b>FY 2023 OCO Plans:</b> N/A</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> There are no FY23 requirements to fund.</p>						<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Title:</b> RADIO-CRYPTO										
<p><b>Description:</b> The B-1B Radio Crypto Modernization and Compliance requirements originate from JROCM 040-11, VACM Cease Key CED-026-11, UHF SATCOM (Ultra-high frequency Satellite Communication) Decommission and Cease Key for Demand Assigned Multi Access (DAMA) Orderwire, HALF QUICK II Cease use date, and DoD CIO Mobile User Objective System (MUOS) transition directive. If the requirements/directives are not met, B-1B will lose its secure line of sight, beyond line of sight, and anti-jam communication with ground and air forces. The initiative will replace the existing ARC-210 (RT-1797 &amp; RT-1851) with common ARC-210 next generation radios. Additionally, the program will provide MUOS capability.</p> <p>The Radio Crypto program has two increments. - Increment I addresses the NSA mandate by providing crypto compliant radios and second generation anti-jam Ultra High-Frequency radio for NATO (SATURN.) This increment will replace the two obsolete ARC-210 Gen</p>						7.653	5.615	13.144	0.000	13.144

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
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3/4 radios with modernized ARC-210 Gen 6 radios and associative aircraft wiring/software in order to support the new radios.

- Increment 2 incorporates MUOS Satellite Communication capability that supports the DoD Chief Information Officer (CIO) directive to move all DoD assets to MUOS constellation (70% by FY26). This increment will lay in Ethernet cable required by MUOS Data (J-REAP C), install MUOS ancillaries (HPA/LNA), and additional software to execute MUOS capability on the aircraft.

**FY 2022 Plans:**  
Continue Engineering and Manufacturing Development (EMD) Phase for Increment 1.  
Major Milestone: CDR - Q3FY22

**FY 2023 Base Plans:**  
Increment 1: Progress from CDR through Flight Test and complete the EMD phase.  
Increment 2: Release the EMD Request for Proposal with a tentative contract award in Q1FY24.

**FY 2023 OCO Plans:**  
N/A

**FY 2022 to FY 2023 Increase/Decrease Statement:**  
Rephase program funding

<b>Title:</b> MIDS-JTRS	7.623	4.290	0.000	0.000	0.000
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**Description:** Multifunctional Information Distribution System-Joint Tactical Radio System (MIDS-JTRS) replaces the existing MIDS-LVT (1) (Low Volume Terminal) Link 16 terminal to meet the 2022 NSA Crypto Modernization (CM) Device Cease Key as well as DoD Link 16 mandate/directive and FAA/NTIA Frequency Remap mandate. The current MIDS-LVT (1) system became non-compliant on 1 Jan 22. MIDS-JTRS resolves all LVT (1) deficiencies and adds substantial combat capability enhancements to Link 16 Enhanced Throughput (LET) and Concurrent Multi-Netting (CMN-4) with Concurrent Retention Receive (CRR). MIDS-JTRS also provides multi-datalink capability, improving situational awareness and allowing rapid in-flight re-targeting in a cooperative combat environment. The B-1B does not have voice communication over Link-16 if the MIDS-JTRS program is not implemented.

Program efforts will focus on delivering all mandates and directives, which includes integrations of MIDS-JTRS terminal and all associated software, wiring, and hardware updates.

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>FY 2022 Plans:</b> Continue Engineering and Manufacturing Development (EMD) Phase Major Milestone: Complete DT/OT - Q3FY22 Closeout EMD and enter Production Major Milestone: MS-C - Q1FY23  <b>FY 2023 Base Plans:</b> N/A  <b>FY 2023 OCO Plans:</b> N/A  <b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> MIDS-JTRS Increment 2 cancellation by AFGSC (Q2FY22)					
<b>Accomplishments/Planned Programs Subtotals</b>	15.276	29.127	13.144	0.000	13.144

	FY 2021	FY 2022
<b>Congressional Add:</b> Hypersonic Integration  <b>FY 2022 Plans:</b> Complete Early Strategy and Issue Session (ESIS) NLT 3QFY22 Complete Acquisition Strategy Plan (ASP) NLT 3QFY22	-	10.000
<b>Congressional Adds Subtotals</b>	-	10.000

<b>D. Other Program Funding Summary (\$ in Millions)</b>	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
• APAF 05 Line Item	0.799	0.071	0.102	-	0.102	0.500	0.509	0.517	0.528	0.000	3.026
B01B00: <i>Training Support to Units, Mods PE 0809731F</i>											
• APAF 05 B01B00: B-1B	-	-	-	-	-	-	-	-	-	0.000	0.000
• APAF 05 B00100: B-1	17.307	30.519	36.314	-	36.314	15.739	18.805	18.167	16.466	0.000	153.317
• APAF 05 Line Item B01B00	2.959	0.847	0.891	-	0.891	0.000	-	-	-	0.000	4.697
Spares: <i>B-1B Squadrons, Spares</i>											

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**D. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u> <u>Base</u>	<u>FY 2023</u> <u>OCO</u>	<u>FY 2023</u> <u>Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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**Remarks**

**E. Acquisition Strategy**

B-1 AFMC Test Assets will utilize funding to fully fund one Programmed Depot Maintenance (PDM) for the test aircraft, A/C 85-0075, at Tinker AFB, OK.

Radio Crypto acquisition strategy addresses National Security Agency (NSA) as well as DoD mandates and directives through EMD and production with a five-year Sole Source (SS), Cost Plus Fixed Fee (CPFF) EMD contract effort followed by a two-year Production and installation effort.

MIDS-JTRS acquisition strategy addresses the (2022) NSA and (2025) FAA/NTIA mandates by replacing the MIDS-LVT 1 with MIDS-JTRS terminal through a five-year, Sole Source (SS), Cost Plus Fixed Fee (CPFF) EMD contract effort followed by a two-year Production and installation effort.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Air Force** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0101126F / B-1B Squadrons	<b>Project (Number/Name)</b> 675344 / B-1B Modernization
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<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
B-1 AFMC Test Assets (PDM)	MIPR	Tinker AFB : OKC, OK	-	-		19.222	Mar 2022	-		-		-	Continuing	Continuing	-
Radio Crypto Compliance	SS/CPFF	Boeing : OKC, OK	-	5.951	Sep 2021	3.614	Dec 2022	9.329	Nov 2022	-		9.329	0.000	18.894	-
MIDS-JTRS EMD	SS/CPFF	Boeing : OKC, OK	-	3.219	Jul 2021	1.000	Jun 2022	-		-		-	0.000	4.219	-
MIDS-JTRS Regression Testing and Navigation Reset Workaround	SS/CPFF	Boeing : OKC, OK	-	2.313	Nov 2021	-		-		-		-	Continuing	Continuing	-
MIDS-JTRS Risk Management: Regression Testing and Navigation Reset Workaround	SS/CPFF	Boeing : OKC, OK	-	0.000	Jun 2022	0.445	Sep 2022	-		-		-	Continuing	Continuing	-
MIDS-JTRS Technical Change Request	SS/CPAF	Boeing : OKC, OK	-	0.000	Apr 2022	-		-		-		-	Continuing	Continuing	-
Hypersonic weapons integration	TBD	TBD : TBD, OK	-	-		10.000	Sep 2022	-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			-	11.483		34.281		9.329		-		9.329	Continuing	Continuing	N/A

<b>Support (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
BAH (A&AS)	MIPR	GSA : OKC, OK	-	0.361	Jun 2021	-		-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			-	0.361		-		-		-		-	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
MIDS-JTRS DT/OT (BU3 Delta Testing)	PO	Edwards : CA	-	-		0.400	Aug 2022	-		-		-	Continuing	Continuing	-
MIDS-JTRS JITC Testing	MIPR	Not specified. : TBD	-	-		0.035	May 2022	-		-		-	Continuing	Continuing	-

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Air Force** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0101126F / B-1B Squadrons	<b>Project (Number/Name)</b> 675344 / B-1B Modernization
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<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Radio Crypto Increment 1 Flight Testing	MIPR	Edwards : CA	-	-		-		1.883	Nov 2022	-		1.883	Continuing	Continuing	-
<b>Subtotal</b>			-	-		0.435		1.883		-		1.883	Continuing	Continuing	N/A

**Remarks**  
MIDS-JTRS Project Order (PO) for BU3 Delta testing is to the 419th Test Squadron.

<b>Management Services (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
PMA/DCA	Various	Various : OKC, OK	-	3.432	Aug 2021	4.411	Jan 2022	1.932	Jan 2023	-		1.932	0.000	9.775	-
<b>Subtotal</b>			-	3.432		4.411		1.932		-		1.932	0.000	9.775	N/A

	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>		-	15.276	39.127	13.144	13.144	Continuing	Continuing	N/A

**Remarks**



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**Exhibit R-4A, RDT&E Schedule Details:** PB 2023 Air Force **Date:** April 2022

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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>B-1 AFMC Test Assets (PDM)</b>				
B-1B A/C 85-0075 PDM	2	2022	1	2023
<b>Radio Crypto</b>				
Radio Crypto (RC) - EMD Increment #1	1	2021	4	2024
RC PDR #1	1	2021	1	2021
RC CDR #1	2	2022	2	2022
RC DT/OT #1	4	2023	2	2024
RC MS C #1	4	2024	4	2024
RC - EMD Increment #2	2	2023	3	2026
RC PDR #2	1	2024	1	2024
RC CDR #2	3	2024	3	2024
RC DT/OT #2	4	2025	1	2026
RC MS C #2	3	2026	3	2026
<b>MIDS-JTRS</b>				
MIDS-JTRS - EMD	1	2021	1	2023
MIDS-JTRS PDR	1	2021	1	2021
MIDS-JTRS CDR	1	2021	1	2021
MIDS-JTRS DT/OT	2	2022	3	2022
MIDS-JTRS MS C	1	2023	1	2023
<b>Hypersonic Integration</b>				
ESIS	3	2022	3	2022
ASP	3	2022	3	2022