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

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0101126F / B-1B Squadrons
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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	-	1.000	15.737	29.127	0.000	29.127	-	-	-	-	-	-
675344: <i>B-1B Modernization</i>	-	1.000	15.737	29.127	0.000	29.127	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

Note

This program, BA 7, PE 0101126F, project 675344, B-1 AFMC Test Assets, is a new start.

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 (DMS) while at the same time providing improved capabilities to the B-1B weapon system that require significant hardware and software development and testing.

The Fiscal Year (FY) 2021 President's Budget retired 17 B-1B aircraft, bringing the total aircraft inventory to 45. No further divestment planned in FY22.

RADIO CRYPTO COMPLIANCE:

The B-1B Radio Crypto Compliance requirements, P-3A 92316, originate from JROCM 040-11, VACM Cease Key CED-026-11, UHF SATCOM (Ultra-high frequency Satellite Communication) Decommission and Cease Key for DAMA (Demand Assigned Multi Access) Orderwire, HALF QUICK II Cease use date, and DoD Chief Information Officer (CIO) Mobile User Objective System (MUOS) transition directive.

Requirements must be met to ensure B-1B maintains 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. The program will ensure the B-1B fleet meets National Security Agency (NSA) mandates and DoD mandates and directives as soon as possible with the minimum amount of hardware installs. Additionally, the program will provide MUOS capability. This modification includes procurements of 41 aircraft kits + 4 EMD kits that will be installed in conjunction with organic/intermediate maintenance.

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

The B-1B MIDS-JTRS program replaces the existing MIDS Low Volume Terminal (LVT) 1 Link 16 terminal to meet NSA Crypto Modernization (CM) Device Cease Key and Federal Aviation Administration/National Telecommunications and Information Administration (FAA/NTIA) Frequency Remap mandates, as well as DoD Link 16 mandate that also coincides with the 2022 NSA mandate. Current systems become non-compliant in 2022, resulting in B-1B degraded and reduced communication capabilities. 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-data link capability, improving situational awareness and allowing rapid

UNCLASSIFIED

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<p>in-flight re-targeting in a cooperative combat environment. Funds are included to accommodate DoT/DoD-approved Frequency Remap and Crypto Modernization Device Cease mandates as outlined in previous AF and DoD budget exhibits. MIDS-JTRS implementation includes hardware, software, and wiring updates, including, but not limited to, additional J-messages capability and Ethernet.</p> <p>B-1 AFMC TEST ASSETS: This project is a New Start. The B-1 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 project will support the developmental testing and sustainment needs of the B-1 weapon system. Funds support Programmed Depot Maintenance (PDM) for one test aircraft (A/C 85-0075), which is performed at Tinker AFB, Oklahoma. Funds support any analysis, documentation, and related activities necessary to establish a program of record and support the B-1 weapon system. Additionally, other costs include PMA and centralized support and initiatives for anticipated weapon system enhancements (to include efforts to improve weapon system operational capabilities, safety, supportability, maintainability, reliability, and total cost of ownership).</p> <p>BOMB RACK UNIT 56 (BRU-56): The BRU-56 upgrade was meant to mitigate a safety risk present within the legacy BRU-56 ejector rack, as well as add increased carriage capability. No mishaps has occurred since the Class A mishap in 2003 and Class C mishap in 2010. In FY 2021, BRU-56 was cancelled 28 Apr 21.</p> <p>GAP AND INTEGRATION ANALYSIS: 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 DMS issues, accommodate technology insertion, and fulfill FAA (or other) mandates necessary to ensure continued aircrew safety and mission effectiveness. Costs includes Program Management Administrative (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, and reliability. All B-1B development projects support planned requirements for unique identification in their production phases.</p> <p>B-1 funding also supports innovation activities to include studies, analyses, requirements definition, 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 diminishing manufacturing and material shortage (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 programs funds would be in addition to the civilian pay expenses budgeted in program element 0605831F. In FY20 \$0M was expended for civilian pay expenses in this program element, and in FY21 \$2.696M is forecasted for civilian pay expenses in this program element</p>		

UNCLASSIFIED

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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. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	1.000	15.766	29.954	0.000	29.954
Current President's Budget	1.000	15.737	29.127	0.000	29.127
Total Adjustments	0.000	-0.029	-0.827	0.000	-0.827
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	-0.029	-0.827	0.000	-0.827

Change Summary Explanation

No significant changes

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

	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: B-1 AFMC Test Assets	0.000	0.000	19.222	0.000	19.222
Description: The B-1 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 project will support the developmental testing and sustainment needs of the B-1 weapon system. Funds include cost of one test aircraft 85-0075 Programmed Depot Maintenance (PDM) performed at Tinker AFB, Oklahoma.					
Costs include any analysis, documentation, and related expenses necessary to establish a program of record and support the B-1 weapon system. Additionally, other costs include PMA and centralized support and initiatives for anticipated weapon system enhancements (to include efforts to improve weapon system operational capabilities, safety, supportability, maintainability, reliability, and total cost of ownership).					

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Air Force	Date: May 2021
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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0101126F / B-1B Squadrons
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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
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<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 diminishing manufacturing and material shortage (DMSMS) issues.</p> <p>FY 2021 Plans: N/A</p> <p>FY 2022 Base Plans: Fully Funds 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>FY 2022 OCO Plans: N/A</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Test aircraft PDM required every 4-5 years. Funding supports PDM activities for test aircraft 85-0075, which the aircraft requires in FY22 to continue flying and supporting B-1B modernization activities.</p>					
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<p>Title: Radio Crypto Compliance</p> <p>Description: The B-1B Radio Crypto Compliance requirements, P-3A 92316, originate from JROCM 040-11, VACM Cease Key CED-026-11, UHF SATCOM (Ultra-high frequency Satellite Communication) Decommission and Cease Key for DAMA (Demand Assigned Multi Access) Orderwire, HALF QUICK II Cease use date, and DoD CIO MUOS transition directive. If the requirements/directives are not met, B-1B will lose it's 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 Mobile User Objective System (MUOS) capability. This modification includes procurements of 41 aircraft kits + 4 EMD kits that will be installed in conjunction with organic/ intermediate maintenance.</p> <p>The Radio Crypto program ensures the B-1B meets mandatory National Security Agency (NSA) and DoD mandates and directives as soon as possible with the minimum amount of hardware installs. The minimal evasive task will use current aircraft infrastructure to the greatest extent possible by only replacing 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. Additionally, the program plans to incorporate Mobile User Objective</p>	0.000	7.883	5.615	0.000	5.615
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UNCLASSIFIED

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C. Accomplishments/Planned Programs (\$ in Millions)					
System (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 2021 Plans: FY21 will place on contract engineering and manufacturing efforts to complete the design phase of the program. Additionally, contract actions will commence to complete the development of the program through flight test and design audits.					
Major Milestone: Preliminary Design Review (PDR)/progression towards Critical Design Review (CDR)					
FY 2022 Base Plans: Continue Engineering and Manufacturing Development (EMD) efforts.					
FY22 completes EMD efforts for Increment 1 only, which is the set of efforts primarily associated with complying with necessary mandates. Currently, the program is accelerating its effort towards CDR, software development/ testing, and initial ground testing.					
Major Milestone: CDR/STRR (Software Test Readiness Review)					
FY 2022 OCO Plans: N/A					
FY 2021 to FY 2022 Increase/Decrease Statement: Reduction in funding associated with separating the program into two increments to prioritize mandate compliance under Increment 1.					
Title: Multifunctional Information Distribution System-Joint Tactical Radio System (MIDS-JTRS)					
0.760 7.854 4.290 0.000 4.290					
Description: The B-1B MIDS-JTRS program replaces the existing MIDS Low Volume Terminal (MIDS-LVT) 1 Link 16 terminal to meet NSA 2022 Crypto Modernization (CM) Device Cease Key, a DoD Link 16 mandate/ directive that coincides with the NSA mandate, and FAA/NTIA Frequency Remap mandates. Current system become non-compliant in 2022. 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					

UNCLASSIFIED

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<p>awareness and allowing rapid in-flight re-targeting in a cooperative combat environment. The B-1B loses voice communication and Link-16 access if the MIDS-JTRS terminals are not installed.</p> <p>Program efforts will focus on all mandates and directives, which includes software, wiring, and hardware updates/installs from the MIDS-LVT (1) terminal to the MIDS-JTRS terminal. Increment 2 includes wiring and heavy software. Increment 2 does not have hardware installs. Program efforts include, but not limited to, incorporating additional J-messages and Ethernet.</p> <p>FY 2021 Plans: Continue Engineering and Manufacturing Development (EMD) Phase</p> <p>Major Milestone: PDR, CDR, STRR (Software Test Readiness Review), GTRR (Ground Test Readiness Review), FTRR (Flight Test Readiness Review), and DT/OT (Developmental and Operational Test)</p> <p>FY 2022 Base Plans: Continue Engineering and Manufacturing Development (EMD) Phase</p> <p>Major Milestone: Joint Interoperability Test Command (JITC) Testing, Functional and Physical Configuration Assessments (FCA/PCA), and Milestone C</p> <p>FY 2022 OCO Plans: NA</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Decrease from FY21 to FY22 associated with accelerating in FY21 detailed EMD efforts to complete CDR, software readiness, ground & flight readiness, DT/OT.</p>					
<p>Title: Bomb Rack Unit - 56</p> <p>Description: The Bomb Rack Unit 56 (BRU-56) upgrade planned to address a safety risk present within the legacy BRU-56 ejector rack, as add increased carriage capability. This deficiency led to one Class A mishap in 2003 and one Class C mishap in 2010.</p> <p>FY 2021 Plans: In FY 2021, BRU-56 was terminated 28 Apr 21 for higher Air Force priorities.</p>	0.240	0.000	0.000	0.000	0.000

UNCLASSIFIED

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--	-----------------------

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<p>Signed Termination - Acquisition Decision Memorandum (T-ADM) was signed on 28 Apr 2021 by Air Force Program Executive Officer (AFPEO) for Bombers to stop work and end contract activity in a prudent manner and take appropriate steps to efficiently close out all ongoing efforts in accordance with current laws and regulations. Air Force implemented maintenance procedures to address mishaps from occurring. No mishaps has occurred since the Class A mishap in 2003 and Class C mishap in 2010.</p> <p>FY 2022 Base Plans: N/A</p> <p>FY 2022 OCO Plans: N/A</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: No funding in FY22.</p>					
Accomplishments/Planned Programs Subtotals	1.000	15.737	29.127	0.000	29.127

D. 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
• APAF 05 Line Item B01B00: <i>Training Support to Units, Mods PE 0809731F</i>	0.458	0.041	0.071	-	0.071	-	-	-	-	-
• APAF 05 B01B00: B-1B	-	-	-	-	-	-	-	-	-	-
• APAF 05 B00100: B-1	12.201	21.767	30.447	-	30.447	-	-	-	-	-
• APAF 05 Line Item B01B00 <i>Spares: B-1B Squadrons, Spares</i>	0.000	0.717	0.847	-	0.847	-	-	-	-	-

Remarks

E. Acquisition Strategy
Radio Crypto acquisition strategy implements the program in two increments to accelerate the highest priority mandates fulfillment first. Increment 1 addresses National Security Agency (NSA) and DoD mandates and directives as soon. Increment 2 will provide Mobile User Objective System (MUOS) capability. The Engineering & Manufacturing Development (EMD) portions of the increments will be a Cost Plus Fixed Fee (CPFF) sole source contract with a five and a half years EMD effort and a Firm Fixed Price (FFP) competitively-selected contract with a two-year Production and Installation effort for Increment 1 (for mandate compliance).

UNCLASSIFIED

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<p>MIDS-JTRS acquisition strategy implements the program in two increments in order to meet the upcoming 2022 NSA mandate. Increment 1 addresses mandate compliance by replacing the MIDS-LVT with MIDS-JTRS terminal. Increment 2 provides additional J-message capability and installs Ethernet. The strategy for both increment is CPFF sole source contract to Boeing (OEM) with a five years EMD effort and a FFP for production.</p> <p>BRU-56 program was canceled by Termination - Acquisition Decision Memorandum (T-ADM) on 28 April 2021. Remaining efforts will be taken for contract closeout and orderly shutdown of program in accordance with current laws and regulations.</p> <p>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.</p>		

UNCLASSIFIED

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

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0101126F / B-1B Squadrons	Project (Number/Name) 675344 / B-1B Modernization
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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			
B-1 AFMC Test Assets	SS/CPAF	Tinker AFB : TINKER, OK	-	-		-		19.222	Dec 2021	-		19.222	-	-	-
Radio Crypto Compliance	SS/CPFF	Boeing : OKC, OK	-	-		5.921	Jun 2021	3.311	Dec 2021	-		3.311	-	-	-
Multi-functional Information Distribution System (MIDS) Joint Tactical Radio System (JTRS) (EMD #1)	SS/CPFF	Boeing : OKC, OK	-	-		5.893	May 2021	1.390	Dec 2021	0.000	Nov 2021	1.390	-	-	-
Multi-functional Information Distribution System (MIDS) Joint Tactical Radio System (JTRS) (retrofits and bricking costs)	MIPR	ViaSat : Carlsbad, CA	-	0.090	May 2021	0.000	May 2021	0.716	Dec 2021	-		0.716	-	-	-
Bomb Rack Unit (BRU) 56 - Hardware	C/CPFF	EDO, LLC : Amityville, NY	-	0.000	Mar 2020	0.000	May 2021	-		-		-	-	-	-
Subtotal			-	0.090		11.814		24.639		0.000		24.639	-	-	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			
BRU-56 Testing DT/OT	C/CPAF	Not specified. : TBD	-	-		0.000		-		-		-	-	-	-
BRU-56 Statement of Capability From SEEK EAGLE	PO	Eglin AFB : FL	-	0.225	Mar 2020	0.000	Jul 2021	-		-		-	-	-	-
MIDS-JTRS DT/OT and JITC Testing	PO	Edwards : CA	-	0.670	Jan 2021	-		0.434	Dec 2021	0.000	Feb 2022	0.434	-	-	-
Subtotal			-	0.895		0.000		0.434		0.000		0.434	-	-	N/A

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			
PMA	Various	Various : OKC, OK	-	0.015		3.923	Nov 2020	4.054	Jan 2022	-		4.054	-	-	-

UNCLASSIFIED

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

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0101126F / B-1B Squadrons	Project (Number/Name) 675344 / B-1B Modernization
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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

BRU-56 EMD																												
BRU-56 CDR																												

UNCLASSIFIED

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

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0101126F / B-1B Squadrons	Project (Number/Name) 675344 / B-1B Modernization
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
B-1 AFMC Test Assets				
B-1B A/C 85-0075 PDM	1	2022	4	2022
Radio Crypto Compliance				
Radio Crypto (RC) - EMD Increment #1	1	2020	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
Multi-Functional Information Distribution System - Joint Tactical Radio Systems (MIDS-JTRS)				
MIDS-JTRS - EMD Increment #1	1	2020	3	2022
MIDS-JTRS PDR #1	1	2021	1	2021
MIDS-JTRS CDR #1	1	2021	1	2021
MIDS-JTRS DT/OT #1	4	2021	1	2022
MIDS-JTRS MS C #1	2	2022	2	2022
MIDS-JTRS - EMD Increment #2	1	2023	2	2025
MIDS-JTRS PDR #2	4	2023	4	2023
MIDS-JTRS CDR #2	4	2023	4	2023

UNCLASSIFIED

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Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0101126F / B-1B Squadrons	Project (Number/Name) 675344 / B-1B Modernization
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
MIDS-JTRS MS C #2	4	2024	4	2024
<i>Bomb Rack Unit - 56 (BRU-56)</i>				
BRU-56 EMD	1	2020	3	2021
BRU-56 CDR	2	2020	2	2020