Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force

**Date:** February 2019

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 7:

PE 0101127F *I B-2 Squadrons* 

Operational Systems Development

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COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To	Total Cost
	10015	1 1 2010	1 1 2010	Busc		Total	2021	1 1 2022	1 1 2020	1 1 2027	Complete	
Total Program Element	0.000	89.781	105.508	97.276	0.000	97.276	48.827	50.947	25.521	13.929	Continuing	Continuing
675345: B-2 Modernization	0.000	50.017	78.419	82.925	0.000	82.925	34.228	36.044	10.346	13.929	Continuing	Continuing
676021: BASELINE SUPPORT	0.000	13.052	14.089	14.351	0.000	14.351	14.599	14.903	15.175	0.000	Continuing	Continuing
676022: AEHF Strategic Comm	0.000	26.712	13.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	39.712

#### Note

This program, BA 7, PE 0101127F, project 675345, B-2 Expanded Strike, is a new start.

\$13M in FY 2019 BPAC 676022 is misaligned in the database, funds are being executed within FY 2019 BPAC 675345.

### A. Mission Description and Budget Item Justification

The B-2 is currently undergoing modernization of avionics/communications systems, engines, armament systems, low observable components, core training system components, aircraft supportability improvements, and support equipment development.

The Air Force will also study multiple structural, avionics, and engine modifications that could improve the performance of the aircraft and engines and reduce maintenance man-hours and the logistics footprint of the fleet. Focus of the studies will be on non-mission capable (maintenance) drivers, safety issues, and obsolescence issues through modernization of key components in the airframe, avionics, and engines resulting in improved aircraft availability of a high demand/low density fleet.

The Adaptive Communication Suite (ACS) provides SATCOM connectivity for Command and Control enroute to the target with Airborne Mission Transfer and Beyond Line-of-Site Situational Awareness. This effort includes incremental improvements to the suite of B-2 ACS UHF communications system.

B-2 Armament upgrades integrate new and/or advanced weapons on the B-2 to attack a wider array of target sets, to include hardened, deeply buried targets, as well as destroy more targets per sortie. Upgrades includes Flex Strike, JASSM-ER integration and Expanded Strike.

The Low Observable Signature and Supportability Modifications (LOSSM) program supports the B-2 ability to penetrate anti-access combat environments, performing missions directed by the National Command Authority while ensuring aircrew survivability. The LOSSM program reduces low observable (LO) maintenance, and stabilizes and improves the combat-ready LO signature for the B-2 fleet.

The B-2 Crash Survivable Memory Unit (CSMU) provides a more capable Flight Data Recorder (FDR) with increased capacity for storing Flight Information Data (FID) for recovery and use in the event of a mishap.

PE 0101127F: *B-2 Squadrons* 

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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force Date: February 2019

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 7:

PE 0101127F *I B-2 Squadrons* 

Operational Systems Development

The Radar Aided Targeting System (RATS) is planned to be a software only solution implemented in several B-2 system level Operational Flight Programs (OFPs) to provide radar-aided enhanced targeting capability through weapon hand-off navigational updates for guided nuclear weapons in a non-GPS environment.

The B-2 Identification Friend or Foe (IFF) Mode 5/S modification program provides new equipment to the B-2 for airspace compliance on a global stage. Mode 5 is a new, cryptographically secure mode used solely by the military, which is replacing Mode 4. Mode S is a secondary surveillance radar process that allows selective interrogation of aircraft using a uniquely assigned 24-bit address.

The B-2 Training System upgrades include updates to training device hardware and components, simulation software, courseware and academic materials, instructional system design architectures, engineering drawings, and system documentation that is not driven by a funded aircraft modification.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver B-2 weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, and 0605898F.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	193.108	105.561	106.376	0.000	106.376
Current President's Budget	89.781	105.508	97.276	0.000	97.276
Total Adjustments	-103.327	-0.053	-9.100	0.000	-9.100
<ul> <li>Congressional General Reductions</li> </ul>	-0.033	-0.053			
<ul> <li>Congressional Directed Reductions</li> </ul>	-97.000	0.000			
<ul> <li>Congressional Rescissions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Adds</li> </ul>	0.000	0.000			
<ul> <li>Congressional Directed Transfers</li> </ul>	0.000	0.000			
<ul> <li>Reprogrammings</li> </ul>	0.000	0.000			
SBIR/STTR Transfer	-6.294	0.000			
Other Adjustments	0.000	0.000	-9.100	0.000	-9.100

**Change Summary Explanation** 

FY 2018: Congress reduced AEHF SATCOM by \$97M, \$0.033M for Congressional General Reduction, and \$6.294M for SBIR.

PE 0101127F: *B-2 Squadrons* 

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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force		Date: February 2019
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 0101127F / B-2 Squadrons	
FY 2020: \$9.1M reduction from Expanded Strike, Airspace Compl	liance, CSMU and LOSSM to re-phase early to need fu	nding.

PE 0101127F: *B-2 Squadrons* Air Force

Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force									Date: Febr	uary 2019		
Appropriation/Budget Activity 3600 / 7				, , ,					<b>Project (Number/Name)</b> 675345 <i>I B-2 Modernization</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
675345: B-2 Modernization	0.000	50.017	78.419	82.925	0.000	82.925	34.228	36.044	10.346	13.929	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

#### Note

This program, BA 7, PE 0101127F, project 675345, B-2 Expanded Strike, is a new start.

\$13M of FY19 funding for LOSSM is misaligned into BPAC 676022 AEHF SATCOM, due to a database error.

### A. Mission Description and Budget Item Justification

The B-2 is currently undergoing modernization of avionics/communications systems, engines, armament systems, low observable components, core training system components, aircraft supportability improvements, and support equipment development.

The Air Force will also study multiple structural, avionics, and engine modifications that could improve the performance of the aircraft and engines and reduce maintenance man-hours and the logistics footprint of the fleet. Focus of the studies will be on non-mission capable (maintenance) drivers, safety issues, and obsolescence issues through modernization of key components in the airframe, avionics, and engines resulting in improved aircraft availability of a high demand/low density fleet.

Modern communications are key enablers for the B-2. B-2 cryptographic modernization updates cryptographic equipment for B-2 AIT/ARC-234, AN/ARC-211 and MIDS/LVT communication systems. The Adaptive Communication Suite (ACS) explores incremental improvements to the B-2 ACS UHF communication system in order to modernize the system and increase data throughput.

B-2 Armament upgrades integrate new and/or advanced weapons on the B-2 to attack a wider array of target sets, to include hardened, deeply buried targets, as well as destroy more targets per sortie. The Flexible Strike Phase 1 program will re-host the current B-2 stores management software onto a new integrated processor. Integration of the Joint Air-to-Surface Standoff Missile Extended Range (JASSM-ER) weapon will further enhance the B-2's ability to attack and destroy high value target sets. The Expanded Strike program adds the Advanced 5,000 pound Joint Direct Attack Munition (A5K JDAM) and Hard Target Void Sensing Fuze (HTVSF) to the B-2 arsenal providing additional armament capability for hardened, deeply buried targets.

The Low Observable Signature and Supportability Modifications (LOSSM) program supports the B-2 ability to penetrate anti-access combat environments, performing missions directed by the National Command Authority while ensuring aircrew survivability. The LOSSM program reduces low observable (LO) maintenance, and stabilizes and improves the combat-ready LO signature for the B-2 fleet. This program encompasses multiple improvement projects including, but not limited to, improved LO materials (electrically conductive materials, adhesives, electrically resistive materials, radar absorbing material, fastener fills, coatings, welds, material removal tools, and improved processes), LO structures (radar radomes, antennas, hot trailing edges and tiles, intermediate section doors, tailpipes, windows, lib bay panels, leading edge, permanent fasteners, exhaust pockets, gust load alleviation system, inlets, radar absorbing structures, overall signature stability, and Alternate High Frequency Material expansion), and radio frequency (RF) diagnostic tools, evaluation systems, and other tools (Tier One Material Inspection System, Signature

PE 0101127F: *B-2 Squadrons* 

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force			Date: February 2019
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
3600 / 7	PE 0101127F I B-2 Squadrons	675345 <i>I B</i>	3-2 Modernization

Diagnostic System, next generation Tier II and Tier III systems, Test Article 0998 optimization, conductivity probes, tailpipe inspection tools, LO-related special test equipment, data archival, and communications tools).

The B-2 Crash Survivable Memory Unit (CSMU) provides a more capable Flight Data Recorder (FDR) with increased capacity for storing Flight Information Data (FID) for recovery and use in the event of a mishap. The initiative includes replacement of the current CSMU with an adapted Commercial Off the Shelf (COTS) replacement, modification of the Flight Data Recorder Processor (FDRP) to provide 28 vdc power to the new CSMU, modification of the FDRP Operational Flight Program (OFP), and addition of a Underwater Locator Beacon (ULB). The current CSMU/FDRP does not meet the minimum requirements specified in the Aircraft Information Program (AIP) reference documents (AFI 63-133 and AFH 63-1402).

The B-2 Identification Friend or Foe (IFF) Mode 5/S modification upgrades equipment on the B-2 in order to ensure compliance in the global airspace. Mode 5 provides improved combat identification security, with better discrimination between closely spaced platforms, while reducing interference with civil Air Traffic Control transponders, enabling the B-2 fleet to accomplish its anti-access and global strike mission. Mode 5 is the DoD standard for secure combat ID. Mode S is a secondary surveillance radar process that allows selective interrogation of aircraft according to the unique 24-bit address. Mode S provides improved accuracy and altitude resolution and reduced interference from closely spaced aircraft through selective interrogation of assigned transponder addresses.

The B-2 Training System upgrades include updates to training device hardware and components, simulation software, courseware and academic materials, instructional system design architectures, engineering drawings, and system documentation that is not driven by a funded aircraft modification. Upgrades may include Diminishing Manufacturing Sources efforts to include removal of end-of-life software/hardware within simulator systems and move to a modular, common open system architecture that is sustainable and cyber-resilient. Additional Training System Upgrades may also include efforts to implement requirements and standards defined under the Simulator Common Architecture Requirements and Standards (SCARS) initiative.

The Radar Aided Targeting System (RATS) is planned to be a software only solution implemented in several B-2 system level Operational Flight Programs (OFPs) to provide radar-aided enhanced targeting capability through weapon hand-off navigational updates for guided nuclear weapons in a non-GPS environment. Funding supports timely software development, test and roll-out of software into a future B-2 OFP, specifically to support the B61-12 integration.

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.

B. Accomplishments/Planned Programs (\$ in Millions)			FY 2020	FY 2020	FY 2020
	FY 2018	FY 2019	Base	oco	Total
Title: B-2 Flexible Strike Phase 1	0.494	0.000	0.000	0.000	0.000
<b>Description:</b> Rehost the currently separate Stores Management Operational Flight Programs onto the new integrated processor unit made available by the B-2 EHF Increment 1 program.					
FY 2019 Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force				Date: Febr	uary 2019			
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/ PE 0101127F / B-2 Squadrons	(Name)	Project (Number/Name) 675345 / B-2 Modernization					
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total		
N/A								
FY 2020 Base Plans: N/A								
FY 2020 OCO Plans: N/A								
FY 2019 to FY 2020 Increase/Decrease Statement: N/A								
Title: Low Observable Signature and Supportability Mods and Trainers	18.972	19.521	18.831	-	18.83			
<b>Description:</b> B-2 Low Observable Signature and Supportability Modifications low-cost development efforts for Low Observable (LO) materials, diagnostics signature and/or improve aircraft supportability, as well as other developmen improvements.								
FY 2019 Plans: Continue development of on-going LOSSM and Training System core upgrade for Advanced Signature Reduction efforts, the Next Generation Zonal Radar, an upgrade to the Tier One Material Inspection System (TOMIS), tailpipe test System Spiral 11. Continues development efforts for advanced LO materials, enhanced diagnostics and measurement systems.								
\$13M of FY19 funding for LOSSM is misaligned into BPAC 676022 AEHF SA	ATCOM, due to a database error.							
FY 2020 Base Plans: Continue development of on-going LOSSM and Training System core upgrade for advanced LO materials, structures, procedures, and other enhanced diaged Continue development efforts for Advanced Signature Reduction efforts, the an Abrasion Resistant Coating, an upgrade to the Tier One Material Inspection analysis, and Test Article 0998. Complete production qualification of PE-4, a material. Mature the Radar Radome Design and begin Signature Diagnostic								
FY 2019 to FY 2020 Increase/Decrease Statement:								

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force  Date: February 2019								
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/ PE 0101127F / B-2 Squadrons	/Name) Project (Number/Name) 675345 / B-2 Modernization						
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total			
LOSSM funding increased from FY18 to FY19 as the majority of the developed decreased in FY20 due to decreased scope of work across the LOSSM portfolio	•							
Title: B-2 Joint Air-to-Surface Standoff Missile - Extended Range (JASSM-EF	R) Integration	9.406	12.220	25.316	-	25.310		
<b>Description:</b> Integrates the Joint Air to Surface Standoff Missile, Extended R the B-2.	ange weapon (JASSM-ER) onto							
FY 2019 Plans: Complete Requirements Maturation (RM) effort and begin EMD activities to in Design Review (CDR) and Tech Order generation.	nclude design finalization for Critical							
FY 2020 Base Plans: Continue executing EMD activities to include CDR as well as conducting Test Flight Readiness Review (FRR). Begin developmental/operational testing (DT								
FY 2019 to FY 2020 Increase/Decrease Statement: Funding increases from FY 2019 to FY 2020 due to increase in development TRR, and FRR.	activities and execution of CDR,							
Title: B-2 Cryptographic Modernization		18.633	0.000	0.000	-	0.00		
<b>Description:</b> Provides NSA-mandated cryptographic modifications to three con the aircraft: Advanced Integrated Terminal (AIT) also known as AN/ARC-2 (HF Radio), and the Multifunction Information Distribution System (MIDS) Low Terminal).								
<b>FY 2019 Plans:</b> N/A								
<b>FY 2020 Base Plans:</b> N/A								
Title: B-2 Adaptable Communications Suite (ACS)		0.026	1.428	0.197	-	0.19		
<b>Description:</b> The Adaptable Communications Suite provides a non-integrated system that allows the B-2 fleet to receive mission data, time sensitive targetic weather updates, positive command and control procedures, and perform open	ng information, intelligence and							
FY 2019 Plans:								

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force				Date: Febr	uary 2019	
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/ PE 0101127F / B-2 Squadrons	Name)		<b>Number/Name)</b> B-2 Modernization		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Conduct acquisition planning, risk reduction, and requirements maturation for The modernized system will include new radios with MUOS capability replace revised software which will integrate a permanent BLOS communications can connectivity for integrated mission data, time sensitive targeting information, positive command and control capability, and perform operational reconnaise.	cing the existing radios and pability to ensure continued UHF intelligence and weather updates,					
FY 2020 Base Plans: Continue risk reduction activities for a modernized ACS system.						
FY 2019 to FY 2020 Increase/Decrease Statement: Reduction in funding from FY19 to FY20 as risk reduction effort concludes.						
Title: B-2 Identification Friend or Foe (IFF) Mode 5/S Program		0.440	16.764	16.754	-	16.754
<b>Description:</b> B-2 IFF Mode 5/S provides improved combat identification sec accomplish its anti-access and global strike mission. Mode S provides improved and reduced interference from closely spaced aircraft through interrogation of	oved accuracy, altitude resolution,					
FY 2019 Plans: Complete Milestone B Decision and award Engineering & Manufacturing De	velopment (EMD) delivery order.					
FY 2020 Base Plans: Continue executing EMD activities to include Preliminary Design Review (PD (CDR).	DR) and Critical Design Review					
FY 2019 to FY 2020 Increase/Decrease Statement: N/A						
Title: B-2 Crash Survivable Memory Unit (CSMU)		2.046	4.818	1.870	-	1.870
<b>Description:</b> The B-2 Crash Survivable Memory Unit (CSMU) provides a monometric (FDR) with increased capacity for storing Flight Information Data (FID) for remishap. The initiative includes replacement of the current CSMU with an additional content, modification of the Flight Data Recorder Processor (FID) new CSMU, modification of the FDRP Operational Flight Program (OFP), and Beacon (ULB).	covery and use in the event of a apted Commercial Off the Shelf DRP) to provide 28 vdc power to the					
FY 2019 Plans:						

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force			Date: Febr	uary 2019		
Appropriation/Budget Activity  3600 / 7  R-1 Program Element (Number/PE 0101127F / B-2 Squadrons	/Name)	Project (Number/Name) 675345 / B-2 Modernization				
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	
Perform Non-recurring Engineering (NRE) to adapt Commercial Off the Shelf (COTS) CSMU to the B-2 Flight Data Recorder (FDR) system, modify the FDRP, and update the FDRP OFP. Three prototype CSMUs will be assembled for integration and flight test, and three FDRPs will be modified to operate with the COTS CSMU design.						
FY 2020 Base Plans: Complete Non-recurring Engineering (NRE) to adapt Commercial Off the Shelf (COTS) CSMU to the B-2 Flight Data Recorder (FDR) system, complete modification of the FDRP, and update the FDRP OFP.						
FY 2019 to FY 2020 Increase/Decrease Statement: Funding decreases from FY 2019 to FY 2020 due to decrease in development activities.						
Title: B-2 Radar Aided Targeting System (RATS)	0.000	23.668	18.957	-	18.957	
<b>Description:</b> The Radar Aided Targeting System (RATS) is planned to be a software only solution implemented in several B-2 system level Operational Flight Programs (OFPs) to provide radar-aided enhanced targeting capability through weapon hand-off navigational updates for Type 2 nuclear weapons in a non-GPS environment.						
FY 2019 Plans: Radar Aided Targeting System (RATS) is a new start. FY19 activities include EMD activities, including Preliminary Design Review (PDR).						
FY 2020 Base Plans: Execution of remaining EMD activities to include CDR, at which the contractor is expected to demonstrate Display Control Panel Operational flight Program (DCPOFP) functionality, as well as conducting Test Readiness Review (TRR) and Flight Readiness Review (FRR). DT/OT will be performed at Whiteman AFB and initiated during this time.						
FY 2019 to FY 2020 Increase/Decrease Statement: Funding decreases from FY 2019 to FY 2020 as development activities decrease.						
Title: B-2 Expanded Strike	-	0.000	1.000	-	1.000	
<b>Description:</b> The Expanded Strike program adds the Advanced 5,000 pound Joint Direct Attack Munition (A5K JDAM) and Hard Target Void Sensing Fuze (HTVSF) to the B-2 arsenal providing additional armament capability for hardened, deeply buried targets.						
FY 2019 Plans:						

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Exhibit R-2A, RDT&E Project Justi	ification: PB	2020 Air Fo	rce						Date: Feb	oruary 2019	
Appropriation/Budget Activity 3600 / 7						nent (Numbe 2 Squadrons	er/Name)	Project (Number/Name) 675345 / B-2 Modernization			
B. Accomplishments/Planned Prog	grams (\$ in N	Millions)					FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
N/A - FY 2020 New Start											
FY 2020 Base Plans: Conduct acquisition planning, afforda	ability assess	ments, and	other pre-EM	ID activities.							
FY 2019 to FY 2020 Increase/Decre FY 2020 New Start	ease Statem	ent:									
			Accomplish	nments/Plar	nned Progra	ıms Subtotal	<b>s</b> 50.017	78.419	82.92	5 0.000	82.92
C. Other Program Funding Summa	arv (\$ in Milli	ons)									
		<del></del>	FY 2020	FY 2020	FY 2020					Cost To	
<u>Line Item</u>	FY 2018	FY 2019	<u>Base</u>	oco	<u>Total</u>	FY 2021	FY 2022	FY 2023	FY 2024	Complete	<b>Total Cos</b>
APAF 05 Line Item B00200:     B-2 Training Support  Madification, BE 00007245.	9.082	7.800	0.000	-	0.000	8.080	8.242	8.392	16.481	Continuing	Continuin
Modification, PE 0809731F • APAF 05 Line Item B00200 (1): B-2 Flexible Strike	5.629	7.959	4.894	-	4.894	-	-	-	-	0.000	18.48
Mod Funding, PE 0101127F • APAF 05 Line Item B00200 (2): B-2 LOSSM Mod	5.890	14.831	0.276	-	0.276	19.878	24.009	26.244	21.017	Continuing	Continuin
Funding, PE 0101127F • APAF 05 Line Item B00200 (3): B-2 CSMU Mod	-	-	-	-	-	3.273	1.601	1.631	1.660	Continuing	Continuin
Funding, PE 0101127F • APAF 05 Line Item B00200 (4): B-2 IFF Mode 5/S	-	-	-	-	-	7.239	15.420	15.894	97.723	Continuing	Continuin
Mod Funding, PE 0101127F • APAF 05 Line Item B00200 (5): B-2 B61-12 Integration Mod	39.549	-	-	-	-	-	-	-	-	0.000	39.54
• APAF 05 Line Item B00200 (6): <i>B-2 MGUE Mod</i>	15.625	1.281	0.990	-	0.990	-	0.320	0.480	-	0.000	18.69
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PE 0101127F: *B-2 Squadrons* Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force	Date: February 2019		
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
3600 / 7	PE 0101127F <i>I B-2 Squadrons</i>	675345 <i>I B</i>	3-2 Modernization

### D. Acquisition Strategy

Key elements of the overall acquisition strategy include: use of sole source contract with a prime/integrating contractor (Northrop Grumman), employ the program office as the system integrator when practical, leverage mature technology and systems development investments by other Department of Defense organizations, encourage prime contractor competition of subsystems and key components to reduce risk and cost, use of cost plus incentive fee (CPIF) development contracts, and combine developmental upgrades with software sustainment blocks to minimize the number of software releases, aircraft downtime, and differences in fielded configurations.

### E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Ai
Force performance goals and most importantly, how they contribute to our mission.

PE 0101127F: B-2 Squadrons

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Air Force

Date: February 2019

Appropriation/Budget Activity
R-1 Program Element (Number/Name)
PE 0101127F / B-2 Squadrons
PE 0101127F / B-2 Squadrons

Product Developmen	nt (\$ in Mi	illions)		FY 2	2018	FY	2019	FY 2 Ba	2020 ise	FY 2020 OCO		FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
B-2 Flex Strike Phase 1	Various	Various : Various	0.000	0.381	Dec 2017	-		-		-		-	0.000	0.381	-
Low Observable Signature and Supportability Mods	Various	Various : Various	0.000	17.272	Dec 2017	16.578	Nov 2018	16.876	Oct 2019	-		16.876	Continuing	Continuing	-
B-2 Joint Air-to-Surface Standoff Missile - Extended Range (JASSM- ER) Integration	Various	Various : Various	0.000	7.679	Dec 2018	8.673	Jan 2019	20.745	Oct 2019	-		20.745	0.000	37.097	-
B-2 Cryptographic Modernization	Various	Various : Various	0.000	18.225	Dec 2018	-		-		-		-	0.000	18.225	-
B-2 Adaptable Communications Suite (ACS)	Various	Various : Various	0.000	0.015	Dec 2017	1.412	Dec 2018	0.179	Dec 2019	-		0.179	Continuing	Continuing	-
B-2 IFF Mode 5/S	Various	Various : Various	0.000	0.000		14.739	Jun 2019	12.772	Jun 2020	-		12.772	Continuing	Continuing	-
B-2 Crash Survivable Memory Unit (CSMU)	Various	Various : Various	0.000	1.892	Jul 2019	4.166	Jul 2019	1.403	Jul 2020	-		1.403	4.713	12.174	-
B-2 RATS	Various	Various : Various	0.000	-		19.244	Oct 2018	8.939	Oct 2019	-		8.939	0.000	28.183	-
B-2 Expanded Strike	Various	Various : Various	0.000	-		-		0.914	Dec 2019	-		0.914	0.000	0.914	-
Aircrew Training	Various	Various : Various	0.000	0.086	Dec 2017	1.091	Dec 2018	6.318	Dec 2019	-		6.318	Continuing	Continuing	-
Mission Planning	Various	Various : Various	0.000	0.430	Jan 2018	1.100	Jan 2019	5.272	Jan 2020	-		5.272	Continuing	Continuing	
		Subtotal	0.000	45.980		67.003		73.418		-		73.418	Continuing	Continuing	N/A

#### Remarks

Air Force

Northrop-Grumman is the prime contractor and serves as integrator and hence main contractor for many (ie "Various"), but not all, B-2 modernization efforts.

Test and Evaluation	(\$ in Milli	ons)		FY 2	2018	FY 2	2019		2020 ise	FY 2		FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Test	MIPR	Various : CA	0.000	0.663	Nov 2017	3.525	Nov 2018	1.321	Dec 2019	-		1.321	Continuing	Continuing	-
		Subtotal	0.000	0.663		3.525		1.321		-		1.321	Continuing	Continuing	N/A

PE 0101127F: B-2 Squadrons

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Appropriation/Budget Activity R-1 Program Element (Number/Name) Project	
3600 / 7 PE 0101127F / B-2 Squadrons 67534	(Number/Name) I B-2 Modernization

Management Service	es (\$ in M	illions)		FY 2	2018	FY 2	2019	FY 2 Ba			2020 CO	FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
PMA	Various	Various : TBD	0.000	3.374	Oct 2017	7.891	Oct 2018	8.186	Oct 2019	-		8.186	Continuing	Continuing	-
		Subtotal	0.000	3.374		7.891		8.186		-		8.186	Continuing	Continuing	N/A
															Target

	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	50.017	78.419	82.925	-	82.925	Continuing	Continuing	N/A

### Remarks

Award dates listed are the first incremental funding opportunity associated with each cost category.

PE 0101127F: *B-2 Squadrons* Air Force

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nibit R-4, RDT&E Schedule Profile: PB 2020 A	ir For	ce															_				e: Fe			2019	<del>)</del>	
oropriation/Budget Activity 0 / 7															(Number/Name) I B-2 Modernization											
		Y 201	_	_	FY 2				Y 20				Y 20				2022				2023			FY 2		_
	1	2 3	4	1	2	3	4	1	2	3 4	4	1	2 :	3 4	1	2	3	4	1	2	3	4	1	2	3	4
B-2 Modifications Schedule																						-				
Flexible Strike EMD																										
Flexible Strike Ph 1 Milestone C																										
Flexible Strike Ph 1 Production Contract Award																										
Flexible Strike Production																										
Flexible Strike Ph 1 Required Assets Available																										
Low Observable Signature and Supportability Mods and Trainers																										
JASSM-ER Integration Preliminary Design																										
JASSM-ER Integration Milestone B																										
Crypto Modification Contract Award																										
IFF Mode 5/S Milestone B																										
IFF Mode 5/S EMD Phase																										
IFF Mode 5/S Milestone C																										
Crash Survivable Memory Unit Milestone B																										
Crash Survivable Memory Unit EMD Contract																										
Crash Survivable Memory Unit Milestone C / Production and Deployment																										
Radar Aided Targeting System (RATS) Software Development and Fielding																										
Expanded Strike Acquisition Planning Contract Award																										

PE 0101127F: *B-2 Squadrons* Air Force

Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force			Date: February 2019
11	,	-,	umber/Name)
3600 / 7	PE 0101127F I B-2 Squadrons	675345 <i>I B</i>	3-2 Modernization

# Schedule Details

	Sta	End		
Events by Sub Project	Quarter	Year	Quarter	Year
B-2 Modifications Schedule				
Flexible Strike EMD	1	2018	2	2019
Flexible Strike Ph 1 Milestone C	2	2018	2	2018
Flexible Strike Ph 1 Production Contract Award	2	2018	2	2018
Flexible Strike Production	2	2018	4	2021
Flexible Strike Ph 1 Required Assets Available	4	2020	4	2020
Low Observable Signature and Supportability Mods and Trainers	1	2018	4	2024
JASSM-ER Integration Preliminary Design	1	2019	3	2019
JASSM-ER Integration Milestone B	3	2019	3	2019
Crypto Modification Contract Award	1	2019	1	2019
IFF Mode 5/S Milestone B	3	2019	3	2019
IFF Mode 5/S EMD Phase	3	2019	2	2021
IFF Mode 5/S Milestone C	2	2021	2	2021
Crash Survivable Memory Unit Milestone B	3	2019	3	2019
Crash Survivable Memory Unit EMD Contract	4	2019	3	2021
Crash Survivable Memory Unit Milestone C / Production and Deployment	1	2021	4	2024
Radar Aided Targeting System (RATS) Software Development and Fielding	1	2019	1	2021
Expanded Strike Acquisition Planning Contract Award	1	2020	1	2020

PE 0101127F: B-2 Squadrons

Air Force

Exhibit R-2A, RDT&E Project Ju	stification	PB 2020 A	ir Force							Date: Febr	ruary 2019	
Appropriation/Budget Activity 3600 / 7		<b>R-1 Progra</b> PE 010112		lumber/Name) BASELINE SUPPORT								
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
676021: BASELINE SUPPORT	0.000	13.052	14.089	14.351	0.000	14.351	14.599	14.903	15.175	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

### A. Mission Description and Budget Item Justification

Baseline Support maintains and upgrades the B-2 unique flight test aircraft as well as hardware/software and test equipment to support developmental systems integration, and flight test, reducing the need for additional operational aircraft and accelerating deployment of advanced operational capabilities to the warfighter. Baseline Support also provides for other B-2 unique government costs and includes assorted studies of aircraft performance and cost trades as well as acquisition planning activities, up to and including proposal preparation, for future aircraft, engine, weapon, communication, navigation or other capabilities.

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.

B. Accomplishments/Planned Programs (\$ in Millions)			FY 2020	FY 2020	FY 2020
	FY 2018	FY 2019	Base	oco	Total
Title: Baseline Support Acq Plan/Studies/Integr Test Support	0.297	0.297	0.297	-	0.297
<b>Description:</b> Baseline Support provides for other B-2 unique government costs, including acquisition planning activities for future capabilities, long range planning, studies, and program integration activities, as well as integration and test support of upgraded crypto components as needed.					
FY 2019 Plans: Continue Baseline Support activities including acquisition planning for future capabilities, long range planning, studies, program integration activities, integration and test support of upgraded crypto components.					
FY 2020 Base Plans: Continue Baseline Support activities including acquisition planning for future capabilities, long range planning, studies, and program integration activities.					
FY 2019 to FY 2020 Increase/Decrease Statement:  No change to Baseline Support/Acq Plan/Integr Test Support funding from FY 2019 to FY 2020					
Title: Baseline Support Flight Test	12.755	13.792	14.054	-	14.054
<b>Description:</b> Description: Baseline Support Flight Test maintains and upgrades the B-2 unique flight test aircraft as well as hardware/software and test equipment to support developmental systems integration and flight test,					

PE 0101127F: *B-2 Squadrons* Air Force

Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force			Date: February 2019
Appropriation/Budget Activity	,	, ,	umber/Name)
3600 / 7	PE 0101127F <i>I B-2 Squadrons</i>	676021 <i>I B</i>	BASELINE SUPPORT

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
reducing the need for additional operational aircraft and accelerating deployment of advanced operational capabilities to the warfighter.					
FY 2019 Plans: Continue B-2 Flight Test activities, maintaining and upgrading the B-2 unique flight test aircraft as well as hardware/software and test equipment, to support developmental systems integration and flight test, and test aircraft de-mod efforts.					
FY 2020 Base Plans: Continue B-2 Flight Test activities, maintaining and upgrading the B-2 unique flight test aircraft as well as hardware/software and test equipment, to support developmental systems integration and flight test.					
FY 2019 to FY 2020 Increase/Decrease Statement:  No significant change to Baseline Support Flight Test funding from FY 2019 to FY 2020.					
Accomplishments/Planned Programs Subtotals	13.052	14.089	14.351	-	14.351

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

N/A

#### Remarks

Air Force

# D. Acquisition Strategy

Key elements of the overall acquisition strategy include: use of a sole source contract with a prime/integrating contractor (Northrop Grumman) for most but not all B-2 programs; use of cost plus incentive fee (CPIF) development contracts; and the combination of developmental upgrades with software sustainment blocks to minimize the number of software releases, aircraft downtime, and differences in fielded configurations.

#### **E. Performance Metrics**

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

PE 0101127F: *B-2 Squadrons* 

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2020 Air F	orce								Date:	February	2019	
Appropriation/Budge 3600 / 7	et Activity	1					<b>gram Ele</b> 1127F <i>I B</i>	•	umber/Na drons	ame)		(Numbe		PORT	
Support (\$ in Million	ıs)			FY 2	2018	FY 2	2019		2020 ise		2020 CO	FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Other Government Costs	Various	Various : Various	0.000	9.004	Oct 2017	9.658	Oct 2018	9.378	Oct 2019	-		9.378	Continuing	Continuing	-
		Subtotal	0.000	9.004		9.658		9.378		-		9.378	Continuing	Continuing	N/A
Test and Evaluation	(\$ in Milli	ons)		FY 2	2018	FY 2	2019		2020 ise		2020 CO	FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Government Test	MIPR	AFTC : CA	0.000	3.200	Oct 2017	3.268	Oct 2018	3.597	Oct 2019	-		3.597	Continuing	Continuing	-
		Subtotal	0.000	3.200		3.268		3.597		-		3.597	Continuing	Continuing	N/A
Management Service	es (\$ in M	illions)		FY 2	2018	FY 2	2019		2020 ise		2020 CO	FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
PMA	Various	Various : TBD	0.000	0.848	Oct 2017	1.163	Oct 2018	1.376	Oct 2019	-		1.376	Continuing	Continuing	-
		Subtotal	0.000	0.848		1.163		1.376		-		1.376	Continuing	Continuing	N/A
			Prior Years	FY 2	2018	FY 2	2019		2020 ise		2020 CO	FY 2020 Total	Cost To	Total Cost	Target Value of Contract
		Project Cost Totals	0.000	13.052		14.089		14.351		-		14.351	Continuing	Continuing	N/A

### **Remarks**

Award dates listed are the first incremental funding opportunity associated with each cost category.

PE 0101127F: B-2 Squadrons

Air Force

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hibit R-4, RDT&E Schedule Profile: PB 2020	Air Force																				2019		
propriation/Budget Activity 00 / 7						<b>Progra</b> 10112						ame	)		<b>rojec</b> 7602						ORT		
	FY 2			Y 2019	_		2020			Y 20			FY	_			FY 2	,			FY 20		_
B-2 Baseline Support	1 2	3 4	1	2 3	4	1 2	3	4	1	2	3 4	1	2	3	3 4	1	2	3	4	1	2	3	4
FY18 Flight Test Core Support Contract Award																							
FY19 Flight Test Core Support Contract Award																							
FY20 Flight Test Core Support Contract Award																							
FY21 Flight Test Core Support Contract Award																							
FY22 Flight Test Core Support Contract Award																							
FY23 Flight Test Core Support Contract Award																							
FY24 Flight Test Core Support Contract Award																							

PE 0101127F: *B-2 Squadrons* Air Force

Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force		Date: February 2019
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
3600 / 7	PE 0101127F <i>I B-2 Squadrons</i>	676021 I BASELINE SUPPORT

# Schedule Details

	S	tart	E	ind
Events by Sub Project	Quarter	Year	Quarter	Year
B-2 Baseline Support				
FY18 Flight Test Core Support Contract Award	1	2018	1	2018
FY19 Flight Test Core Support Contract Award	1	2019	1	2019
FY20 Flight Test Core Support Contract Award	1	2020	1	2020
FY21 Flight Test Core Support Contract Award	1	2021	1	2021
FY22 Flight Test Core Support Contract Award	1	2022	1	2022
FY23 Flight Test Core Support Contract Award	1	2023	1	2023
FY24 Flight Test Core Support Contract Award	1	2024	1	2024

PE 0101127F: B-2 Squadrons

Air Force

Exhibit R-2A, RDT&E Project Ju	stification	PB 2020 A	ir Force						,	Date: Feb	uary 2019	
Appropriation/Budget Activity 3600 / 7					<b>R-1 Progra</b> PE 010112		t (Number/ guadrons	Name)	Project (N 676022 / A		,	
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
676022: AEHF Strategic Comm	0.000	26.712	13.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	39.712
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

#### Note

FY18 funding does not reflect the \$13M rescission due to a technical error.

\$13M of FY19 funding for LOSSM is misaligned into BPAC 676022 AEHF SATCOM, due to a database error.

### A. Mission Description and Budget Item Justification

The B-2 Advanced Extremely High Frequency (AEHF) Satellite Communications (SATCOM) system provides secure, strategic, two-way, survivable Anti-Access/Area Denial communications capability for conventional and nuclear missions. The effort was established in Project 675345 B-2 Modernization; the B-2 AEHF effort continued in FY 2017 and subsequent years under Project 676022 AEHF Strategic Comm. The AEHF SATCOM program was terminated in the FY 2019 Budget.

\$13M of FY19 funding for LOSSM is misaligned into BPAC 676022 AEHF SATCOM, due to a database error.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Title: B-2 AEHF (Strategic Communication)	26.712	13.000	0.000	-	0.000
<b>Description:</b> B-2 AEHF (Strategic Communication) provides secure, strategic, two-way, survivable Anti-Access/ Area Denial communications capability for conventional and nuclear missions.					
FY 2019 Plans: B-2 EHF SATCOM program was terminated in FY 2019 Budget.					
FY 2020 Base Plans: N/A					
FY 2019 to FY 2020 Increase/Decrease Statement:  B-2 EHF SATCOM program was terminated in FY 2019 Budget.					
Accomplishments/Planned Programs Subtotals	26.712	13.000	0.000	_	0.000

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

N/A

#### Remarks

Air Force

FY18 funding does not reflect the \$13M rescission due to a technical error.

PE 0101127F: *B-2 Squadrons* 

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force		Date: February 2019
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0101127F / B-2 Squadrons	Project (Number/Name) 676022 / AEHF Strategic Comm
D. Acquisition Strategy		
N/A		
E. Performance Metrics		
Please refer to the Performance Base Budget Overview Book for in Force performance goals and most importantly, how they contribut	nformation on how Air Force resources are applied and here to our mission	now those resources are contributing to Air
	o to our mission.	

PE 0101127F: *B-2 Squadrons* Air Force

Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Air Force

Date: February 2019

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

Project (Number/Name)

3600 / 7

PE 0101127F / B-2 Squadrons

676022 I AEHF Strategic Comm

Product Developmen	nt (\$ in Mi	llions)		FY 2	2018	FY 2	2019	FY 2 Ba		FY 2	2020 CO	FY 2020 Total	_		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
AEHF Strategic Comm	Various	Not specified. : TBD	0.000	22.936		13.000		-		-		-	0.000	35.936	-
		Subtotal	0.000	22.936		13.000		-		-		-	0.000	35.936	N/A

#### Remarks

Northrop-Grumman is the prime contractor and lead integrator.

Management Service	ces (\$ in M	illions)		FY 2	2018	FY 2	2019	1	2020 ise	FY 2	2020 CO	FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
PMA	Various	Various : TBD	0.000	3.776	Jan 2018	-		-		-		-	Continuing	Continuing	0.000
		Subtotal	0.000	3.776		-		-		-		-	Continuing	Continuing	N/A
															Torgot

	Prior Years	FY 20	018	FY 20	)19	FY 2 Ba	FY 2020 OCO	FY 2020 Total	Cost To	Total Cost	Target Value of Contract
Project Cost Totals	0.000	26.712		13.000		-	-	-	Continuing	Continuing	N/A

#### Remarks

Award dates listed are the first incremental funding opportunity associated with each cost category.

PE 0101127F: *B-2 Squadrons* Air Force

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R-1 Program Element (Number/Name)   Project (Number/Name)   676022   AEHF Strategic Comm
4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3

PE 0101127F: *B-2 Squadrons* Air Force

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force			Date: February 2019	
11	,	Project (Number/Name)		
3600 / 7	PE 0101127F <i>I B-2 Squadrons</i>	6760221A	NEHF Strategic Comm	

### Schedule Details

	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year
Program Terminated				
Termination	1	2019	1	2019

### **Note**

Program was terminated in the FY 2019 Budget. No events are planned.

PE 0101127F: *B-2 Squadrons* Air Force

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