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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Air Force **Date:** February 2020

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 0301112F / <i>Nuclear Planning and Execution System (NPES)</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	0.000	28.623	44.190	32.759	0.000	32.759	12.940	3.941	3.107	3.095	Continuing	Continuing
673768: <i>Nuclear Planning and Execution System (NPES)</i>	0.000	28.623	35.010	29.655	0.000	29.655	11.882	3.941	3.107	3.095	Continuing	Continuing
674212: <i>NLCC Decision Support System</i>	0.000	0.000	9.180	3.104	0.000	3.104	1.058	0.000	0.000	0.000	0.000	13.342

Note
 This program, BA 7, PE 0301112F, project 674212, DSS Development, is a new start.

A. Mission Description and Budget Item Justification

United States Strategic Command (USSTRATCOM) conducts global operations in partnership with other combatant commands, services and U.S. government agencies to deter and detect strategic attacks against the United States. USSTRATCOM is responsible for command of U.S. nuclear capabilities, space operations, global surveillance and reconnaissance, intelligence, communications, computers, global missile defense and combatting weapons of mass destruction. To enable completion of these missions, it is recapitalizing the Nuclear Planning and Execution System (NPES). NPES is a Chairman, Joint Chiefs of Staff system for nuclear operations and fulfillment of Nuclear Command and Control (NC2) responsibilities. NPES supports national strategic deterrence by providing a host of NC2 execution activities as well as contingency and crisis action planning capabilities to selected joint and combatant command staffs. NPES is operated by USSTRATCOM and other specified users performing missions to deter and dissuade threats, and, when directed, defeat adversaries.

The NPES system has evolved from several single-purpose command and control systems over the past 30 years and has reached a point where it requires recapitalization to meet national and strategic objectives and to comply with future concepts of operation. Additionally, recapitalization is needed to improve cybersecurity, system effectiveness, and supportability. Recapitalization will also seek to lower the total cost of ownership and sustainment. The recapitalization program will use proven/mature software engineering, technologies, and design tenets to provide a modern, secure, interoperable and reliable Nuclear Command and Control (NC2) software capability. NPES will exploit AFLCMC/HBC agile software development economies of scale to enable developers to build and integrate software at the Top Secret level vice paying to build duplicate capabilities at other government or contractor facilities.

Funds agile software development activities and a secure software development environment, located in existing space at Offutt AFB. Software development environment will meet classification/security regulations/criteria, which will promote competition.

This is a Section 804 Alpha Phase rapid software prototyping effort. This effort includes decomposing system, functional and non-functional requirements in order to design, build, and field a new NPES application software baseline via agile, development operations (DevOps), and user-centered design principles. Further, the effort includes developing written artifacts to document system / software engineering elements appropriate for an Agile/DevOps software development effort.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Air Force	Date: February 2020
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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 0301112F / <i>Nuclear Planning and Execution System (NPES)</i>
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This program element may include necessary civilian pay expenses required to manage, execute, and deliver NPES weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605831F or 0605833F.

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	29.620	44.190	35.088	0.000	35.088
Current President's Budget	28.623	44.190	32.759	0.000	32.759
Total Adjustments	-0.997	0.000	-2.329	0.000	-2.329
• 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	-0.997	0.000	-2.329	0.000	-2.329

Change Summary Explanation

\$2,349M removed from the FY2021 budget to support higher Air Force priorities.

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Air Force										Date: February 2020		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0301112F / <i>Nuclear Planning and Execution System (NPES)</i>				Project (Number/Name) 673768 / <i>Nuclear Planning and Execution System (NPES)</i>			
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
673768: <i>Nuclear Planning and Execution System (NPES)</i>	0.000	28.623	35.010	29.655	0.000	29.655	11.882	3.941	3.107	3.095	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

United States Strategic Command (USSTRATCOM) conducts global operations in partnership with other combatant commands, services and U.S. government agencies to deter and detect strategic attacks against the United States. USSTRATCOM is responsible for command of U.S. nuclear capabilities, space operations, global surveillance and reconnaissance, intelligence, communications, computers, global missile defense and combatting weapons of mass destruction. To enable completion of these missions, it is recapitalizing the Nuclear Planning and Execution System (NPES). NPES is a Chairman, Joint Chiefs of Staff system for nuclear operations and fulfillment of Nuclear Command and Control (NC2) responsibilities. NPES supports national strategic deterrence by providing a host of NC2 execution activities as well as contingency and crisis action planning capabilities to selected joint and combatant command staffs. NPES is operated by USSTRATCOM and other specified users performing missions to deter and dissuade threats, and, when directed, defeat adversaries.

The NPES system has evolved from several single-purpose command and control systems over the past 30 years and has reached a point where it requires recapitalization to meet national and strategic objectives and to comply with future concepts of operation. Additionally, recapitalization is needed to improve cybersecurity, system effectiveness, and supportability. Recapitalization will also seek to lower the total cost of ownership and sustainment. The recapitalization program will use proven/mature software engineering, technologies, and design tenets to provide a modern, secure, interoperable and reliable Nuclear Command and Control (NC2) software capability. NPES will exploit AFLCMC/HBC agile software development economies of scale to enable developers to build and integrate software at the Top Secret level vice paying to build duplicate capabilities at other government or contractor facilities.

Funds agile software development activities and a secure software development environment, located in existing space at Offutt AFB. Software development environment will meet classification/security regulations/criteria, which will promote competition.

This is a Section 804 Alpha Phase rapid software prototyping effort. This effort includes decomposing system, functional and non-functional requirements in order to design, build, and field a new NPES application software baseline via agile, development operations (DevOps), and user-centered design principles. Further, the effort includes developing written artifacts to document system / software engineering elements appropriate for an Agile/DevOps software development effort.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver NPES 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, 0605833F, 0605832F, and 0605898F.

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Air Force		Date: February 2020
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0301112F / <i>Nuclear Planning and Execution System (NPES)</i>	Project (Number/Name) 673768 / <i>Nuclear Planning and Execution System (NPES)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021
<p>Title: Nuclear Planning and Execution System (NPES) Modernization</p> <p>Description: - The NPES program will use proven and mature software engineering, technologies, and design tenets to provide a modern, secure, interoperable and reliable Nuclear Command and Control (NC2) capability for USSTRATCOM and other users as appropriate.</p> <ul style="list-style-type: none"> - It will update and/or replace existing system software and improve reliability and sustainability. - It will also seek to reduce total ownership cost. <p>FY 2020 Plans:</p> <ul style="list-style-type: none"> -FY20 will be the second year of Development and Fielding. -The NPES recap developer will use Agile Software Development to release operational software code quarterly to user's for evaluation in a production environment. -FY20 the NPES recap developer will produce sufficient new software capability to enable the user representatives to conduct operational testing & evaluation. <p>FY 2021 Plans:</p> <ul style="list-style-type: none"> -FY21 the NPES recap developer will produce sufficient new software capability to enable the user representatives to conduct operational testing & evaluation. -FY21 will be the third year of SW development with plans to reduce the NPES recap SW developer teams. -FY21 NPES Recap will fund AFLCMC/HBC in house software development resources to promote competition, a secure developmental environment, and enable developers to build and integrate software at the Top Secret level as part of the agile software development effort. <p>FY 2020 to FY 2021 Increase/Decrease Statement:</p> <ul style="list-style-type: none"> -FY21 will be the third year of SW development with plans to reduce the NPES recap SW developer teams. 	28.623	35.010	29.655
Accomplishments/Planned Programs Subtotals	28.623	35.010	29.655

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u> <u>Base</u>	<u>FY 2021</u> <u>OCO</u>	<u>FY 2021</u> <u>Total</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OPAF 03 Line Item 833140: <i>Strategic Command and Control</i>	2.278	2.266	2.358	-	2.358	2.401	2.443	2.487	-	Continuing	Continuing

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Air Force		Date: February 2020
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0301112F / <i>Nuclear Planning and Execution System (NPES)</i>	Project (Number/Name) 673768 / <i>Nuclear Planning and Execution System (NPES)</i>

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

<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u> <u>Base</u>	<u>FY 2021</u> <u>OCO</u>	<u>FY 2021</u> <u>Total</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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Remarks

In FY18, PE 0303255F, Service Support to STRATCOM-C4, Project 833140, partial funding was transferred to PE 0301112F, Nuclear Planning and Execution (NPES), for better transparency.

D. Acquisition Strategy

NPES will develop, test, and field a renewed Nuclear Command and Control (NC2) capability for combatant commanders using an evolutionary (Spirals) acquisition approach with development contracts that are negotiated and awarded in a competitive environment. Additionally, select government agencies will be used to conduct relevant analyses and provide other required support. NPES will exploit AFLCMC/HBC agile software development economies of scale to enable developers to build and integrate software at the Top Secret level vice paying to build duplicate capabilities at other government or contractor facilities.

This is a Section 804 Alpha Phase rapid software prototyping effort. This effort includes decomposing system, functional and non-functional requirements in order to design, build, and field a new NPES application software baseline via agile, development operations (DevOps), and user-centered design principles. Further, the effort includes developing written artifacts to document system / software engineering elements appropriate for an Agile/DevOps software development effort.

Funds agile software development activities and a secure software development environment. Software development environment will meet classification/security regulations/criteria, which will promote competition.

The Air Force Life Cycle Management Center at Hanscom AFB, (AFLCMC/HB) and the 55th CONS at Offutt AFB will be the contracting authorities for NPES and provide necessary program management, contracts, legal, and financial management support.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Air Force **Date:** February 2020

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 030112F / Nuclear Planning and Execution System (NPES)	Project (Number/Name) 673768 / Nuclear Planning and Execution System (NPES)
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Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
Product Development	C/CPAF	Not specified. : TBD	0.000	-		-		-		-		-	0.000	0.000	-
Pre Milestone B Risk Reduction	Various	NSWCDD : Offutt AFB, NE	0.000	-		-		-		-		-	Continuing	Continuing	-
Primary Development	Various	NSWCDD : Offutt AFB, NE	0.000	21.961	Nov 2018	29.330	Nov 2019	25.655	Nov 2020	-		25.655	Continuing	Continuing	-
Development Suites & Infrastructure	C/TBD	NSWCDD : Offutt AFB, NE	0.000	1.537	Jun 2019	1.251		-		-		-	Continuing	Continuing	-
Subtotal			0.000	23.498		30.581		25.655		-		25.655	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
Support	C/CPAF	Not specified. : TBD	0.000	-		-		-		-		-	0.000	0.000	-
Technical Engineering Services	Various	Various : Offutt AFB, NE	0.000	2.062	Nov 2018	1.862	Nov 2019	1.701	Nov 2020	-		1.701	Continuing	Continuing	-
Subtotal			0.000	2.062		1.862		1.701		-		1.701	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
Test and Evaluation	C/CPAF	Not specified. : TBD	0.000	-		-		-		-		-	0.000	0.000	-
T&E	Various	Various : Offutt AFB, NE	0.000	0.434	Nov 2018	0.503	Feb 2020	0.508	Feb 2021	-		0.508	Continuing	Continuing	-
Subtotal			0.000	0.434		0.503		0.508		-		0.508	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Air Force		Date: February 2020
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0301112F / <i>Nuclear Planning and Execution System (NPES)</i>	Project (Number/Name) 673768 / <i>Nuclear Planning and Execution System (NPES)</i>

	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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

NPES																												
Alpha Phase - Rapid Prototyping																												
Beta Phase - Rapid Fielding																												
Delta Phase - Continuous Product Improvement																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Air Force		Date: February 2020
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0301112F / <i>Nuclear Planning and Execution System (NPES)</i>	Project (Number/Name) 673768 / <i>Nuclear Planning and Execution System (NPES)</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
NPES				
Alpha Phase - Rapid Prototyping	4	2019	2	2021
Beta Phase - Rapid Fielding	2	2021	4	2022
Delta Phase - Continuous Product Improvement	4	2022	4	2023

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Air Force										Date: February 2020		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0301112F / <i>Nuclear Planning and Execution System (NPES)</i>				Project (Number/Name) 674212 / <i>NLCC Decision Support System</i>			
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
674212: <i>NLCC Decision Support System</i>	0.000	0.000	9.180	3.104	0.000	3.104	1.058	0.000	0.000	0.000	0.000	13.342
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

Note
This program, BA 7, PE 0301112F, project 674212, DSS Development, is a new start.

A. Mission Description and Budget Item Justification

Decision Support Service (DSS) directly supports the senior leader decision making calculus. Numerous studies, reviews, and practical experience identified the need to create a decision making aid. These identified needs culminated in an Initial Capabilities Document (ICD) that have been validated by the Joint Requirements Oversight Council (JROC). DSS will improve situational awareness, aggregate strategic-level information, provide a common visual display, be resilient, and mobile. Several attempts to provide a DSS-like capability have been attempted over the years. These ad hoc attempts failed due to the lack of community buy-in and a structured acquisition methodology. Today, DSS has complete community buy-in and folding it under AFLCMC ensure rigorous acquisition processes will be followed. The program will use the accelerated acquisition process known as Section 804. USSTRATCOM is the logical home for DSS. Additionally, DSS accomplishes agile software development activities and a secure software development environment, located in existing space at Offutt AFB. Software development environment will meet classification/security regulations/criteria, which will promote competition. DSS is supported by WHMO, OSD, NLCC, and CJCS. The Service provider is the United States Air Force and the Functional Manager is Air Force Global Strike Command (AFGSC).

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

	FY 2019	FY 2020	FY 2021
Title: DSS Development	0.000	9.180	3.104
Description: Product Development			
FY 2020 Plans:			
- Investigate OSD-sponsored Senior Leader Visualization prototype for lessons learned and possible risk reduction solutions			
- Initial product development			
- Back-end development and data integration			
- Develop IT infrastructure plans to ensure reliability, sustainability and availability			
-- Evaluate Disconnected Intermittent Low-Bandwidth (DIL) prototype for possible IT Infrastructure integration			
- Develop cybersecurity plan			
- Strategic Study			
FY 2021 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Air Force		Date: February 2020		
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0301112F / <i>Nuclear Planning and Execution System (NPES)</i>	Project (Number/Name) 674212 / <i>NLCC Decision Support System</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2019	FY 2020	FY 2021
<ul style="list-style-type: none"> - Validate and integrate information from Strategic Study - Deploy Minimal Viable Product (MVP) for user assessment - Provide periodic developmental updates IAW Agile development principles - Continue back-end development and data integration - Build and integrate required IT Infrastructure - Implement cybersecurity requirements IAW cybersecurity plan <p>FY 2020 to FY 2021 Increase/Decrease Statement: Decrease due to reduction in requirements as program closes out.</p>				
Accomplishments/Planned Programs Subtotals		0.000	9.180	3.104
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
<p>DSS will develop, test, and field a decision support system capability for use from the combatant commander and above. DSS will use agile development to rapidly prototype, develop software, and field the solutions. DSS will use existing government contract vehicles when advantageous or create development contracts that are negotiated and awarded in a competitive environment. Funds agile software development activities and a secure software development environment, located in existing space at Offutt AFB. Software development environment will meet classification/security regulations/criteria, which will promote competition. This program will be using the Section 804 acquisitions process to accelerate delivery of a finished product. Section 804 outlines authority granted to DoD in the FY2016 National Defense Acquisitions Act to rapidly prototype/field capabilities distinct from the traditional DoD 5000 acquisition system.</p>				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Air Force **Date:** February 2020

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 030112F / Nuclear Planning and Execution System (NPES)	Project (Number/Name) 674212 / NLCC Decision Support System
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Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
Visualization	TBD	TBD : Offutt AFB, NE	0.000	-		2.000	Mar 2020	0.940	Feb 2021	-		0.940	0.000	2.940	-
Backend Development and Integration	TBD	TBD : Offutt AFB, NE	0.000	-		2.000	Mar 2020	0.800	Feb 2021	-		0.800	0.000	2.800	-
IT Infrastructure and Security	TBD	TBD : TBD	0.000	-		3.625	Aug 2020	0.100	Jul 2021	-		0.100	0.000	3.725	-
Strategic Study	TBD	TBD : TBD	0.000	-		0.400	Mar 2020	0.500	Apr 2021	-		0.500	0.000	0.900	-
Subtotal			0.000	-		8.025		2.340		-		2.340	0.000	10.365	N/A

Support (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
Support	TBD	Not specified. : TBD	0.000	-		-		-		-		-	0.000	0.000	-
Engineering Support	SS/TBD	TBD : Offutt AFB, NE	0.000	-		0.290	Nov 2019	0.295	Nov 2020	-		0.295	0.000	0.585	-
Strategic Study	C/TBD	TBD : TBD	0.000	-		0.400	Oct 2019	0.000		-		0.000	0.000	0.400	-
Subtotal			0.000	-		0.690		0.295		-		0.295	0.000	0.985	N/A

Management Services (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
Management Services	C/CPAF	Not specified. : TBD	0.000	-		-		-		-		-	0.000	0.000	-
Program Management Administration	C/FFP	A&AS : Offutt AFB, NE	0.000	-		0.450	Feb 2020	0.469		-		0.469	0.000	0.919	-
DoD Travel	TBD	TDY : Offutt AFB, NE	0.000	-		0.015	Oct 2019	0.000		-		0.000	0.000	0.015	-
Subtotal			0.000	-		0.465		0.469		-		0.469	0.000	0.934	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Air Force								Date: February 2020			
Appropriation/Budget Activity 3600 / 7			R-1 Program Element (Number/Name) PE 0301112F / <i>Nuclear Planning and Execution System (NPES)</i>				Project (Number/Name) 674212 / <i>NLCC Decision Support System</i>				
	Prior Years	FY 2019	FY 2020		FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals	0.000	-	9.180		3.104	-	3.104	0.000	12.284	N/A	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Air Force		Date: February 2020
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0301112F / <i>Nuclear Planning and Execution System (NPES)</i>	Project (Number/Name) 674212 / <i>NLCC Decision Support System</i>

	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025							
	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				
DSS Development																																
DSS Strategic Study					■																											
Senior Leader Visualization (SLV) Prototype Evaluation					■																											
Disconnected Intermittent Low-Bandwidth (DIL) prototype evaluation					■																											
DSS IT Infrastructure and Cybersecurity					■																											
Data Integration					■																											
Minimal Viable Product Delivery									■																							
Application Software Delivery									■																							
DSS Software Delivery 2									■																							
DSS Software Delivery 3									■																							
DSS Software Delivery 4													■																			
DSS Software Delivery 5													■																			
DSS Software Delivery 6																	■															
DSS Software Delivery 7																	■															
DSS Software Delivery 8																	■															
FOC																	■															

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Air Force		Date: February 2020
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0301112F / <i>Nuclear Planning and Execution System (NPES)</i>	Project (Number/Name) 674212 / <i>NLCC Decision Support System</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>DSS Development</i>				
DSS Strategic Study	2	2020	2	2020
Senior Leader Visualization (SLV) Prototype Evaluation	1	2020	2	2020
Disconnected Intermittent Low-Bandwidth (DIL) prototype evaluation	2	2020	2	2020
DSS IT Infrastructure and Cybersecurity	1	2020	4	2022
Data Integration	2	2020	4	2022
Minimal Viable Product Delivery	1	2021	1	2021
Application Software Delivery	1	2021	1	2021
DSS Software Delivery 2	2	2021	2	2021
DSS Software Delivery 3	2	2021	2	2021
DSS Software Delivery 4	3	2021	3	2021
DSS Software Delivery 5	3	2021	3	2021
DSS Software Delivery 6	4	2021	4	2021
DSS Software Delivery 7	4	2021	4	2021
DSS Software Delivery 8	1	2022	2	2022
FOC	2	2022	2	2022