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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Office of the Secretary Of Defense **Date:** March 2023

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 6:</i> <i>RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605161D8Z / <i>Nuclear Matters</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	61.111	16.159	15.039	21.043	-	21.043	20.956	20.648	20.809	21.280	Continuing	Continuing
161: <i>Nuclear Matters</i>	61.111	16.159	15.039	21.043	-	21.043	20.956	20.648	20.809	21.280	Continuing	Continuing

Note

New Start (Y/N): No

A. Mission Description and Budget Item Justification

This program supports the Department's initiatives to Defend the Homeland, Provide Nuclear Deterrence, and Build Sustainable and Long-Term Advantage.

The mission of Nuclear Matters is to ensure the continued credibility, safety, security, resiliency, and effectiveness of the U.S. nuclear deterrent to deter adversaries, assure allies and partners, and achieve U.S. objectives if deterrence fails—today and in the future. Nuclear Matters serves as the Department of Defense (DoD) focal point for the modernization and sustainment of the U.S. nuclear weapons stockpile, as well as for a wide range of nuclear counter-terrorism and counter-proliferation issues.

The funds for this program are used to support research, development, test and evaluation efforts as well as studies and analyses for nuclear weapons modernization, sustainment, security, use control, nuclear weapons stockpile safety, and survivability requirements. Funds are also used to develop and implement plans for the future of the stockpile and broader nuclear deterrent; infrastructure analyses and assessments; DoD-National Nuclear Security Administration (NNSA) Nuclear Weapons Council (NWC) activities, as mandated by Title 10 U.S. Code, section 179; radiological and nuclear emergency response efforts; and management of international programs of nuclear cooperation, particularly with respect to enhancing international nuclear safety and security. Nuclear Matters is also responsible for policy development and implementation for personnel reliability; nuclear weapons, nuclear command and control, and special nuclear materials security; use control; nuclear weapons transportation; physical security equipment; countering nuclear threats; and nuclear and radiological incident response. Additionally, Nuclear Matters serves as a focal point for DoD activities and initiatives related to countering the threat from nuclear terrorism and nuclear proliferation.

Nuclear Matters is leading a series of efforts to provide data-driven support to integrated portfolio management for 21st century nuclear deterrent sustainment and modernization. The United States is modernizing all three legs of its nuclear triad and is also reconstituting its nuclear weapons production capability at roughly the same time, while simultaneously sustaining weapons and systems that have aged well beyond their original design lives. The NWC and similar bodies seek to manage the transition from legacy Cold War delivery systems and weapons to replacement systems and warheads and make decisions that will affect U.S. national security through the end of the 21st century. To field a modern, threat-informed, nuclear deterrent that will keep pace with evolving adversary capabilities, it is necessary to conduct a variety of assessment and study efforts to enable data-driven decisions concerning the future of the U.S. nuclear deterrent.

As part of the implementation of the 2022 Nuclear Posture Review, Nuclear Matters will lead a nuclear integration and analysis effort to enable risk and opportunity analysis to inform Secretary of Defense and Deputy Secretary of Defense decision-making. This effort will leverage advanced data analytics, enterprise risk management, and modeling and simulation tools across the nuclear deterrent portfolio to support data-driven decisions by the Nuclear Weapons Council and the newly

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formed Nuclear Deputy's Management Action Group which, "provide[s] senior leaders a comprehensive and strategic view of the state of the enterprise and prioritize[s] actions for executive decision."

This Program Element can fund travel to support the requirements of this program.

This appropriation will finance work, including manpower, performed by a government agency or by private individuals or organizations under a contractual or grant arrangement with the government who conduct research (systematic study directed toward fuller scientific knowledge or understanding of the subject studied), development (systematic use of the knowledge and understanding gained from research, for the production of useful materials, devices, systems, or methods, including the design and development of prototypes and processes) and test and evaluation efforts.

B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	14.348	15.379	15.813	-	15.813
Current President's Budget	16.159	15.039	21.043	-	21.043
Total Adjustments	1.811	-0.340	5.230	-	5.230
• Congressional General Reductions	-	-0.340			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	1.811	-	5.230	-	5.230

Change Summary Explanation

FY 2024 funding increase is to fund Nuclear Integration and Risk Management functions.

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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
161: <i>Nuclear Matters</i>	61.111	16.159	15.039	21.043	-	21.043	20.956	20.648	20.809	21.280	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The mission of Nuclear Matters is to ensure the continued credibility, safety, security, resiliency, and effectiveness of the U.S. nuclear deterrent to deter adversaries, assure allies and partners, and achieve U.S. objectives if deterrence fails—today and in the future. Nuclear Matters serves as the Department of Defense (DoD) focal point for the modernization and sustainment of the U.S. nuclear weapons stockpile, as well as for a wide range of nuclear counter-terrorism and counter-proliferation issues.

The funds for this program are used to support research, development, test and evaluation efforts as well as studies and analyses for nuclear weapons modernization, sustainment, security, use control, nuclear weapons stockpile safety, and survivability requirements. Funds are also used to develop and implement plans for the future of the stockpile and broader nuclear deterrent; infrastructure analyses and assessments; DoD-National Nuclear Security Administration (NNSA) Nuclear Weapons Council (NWC) activities, as mandated by Title 10 U.S. Code, section 179; radiological and nuclear emergency response efforts; and management of international programs of nuclear cooperation, particularly with respect to enhancing international nuclear safety and security. Nuclear Matters is also responsible for policy development and implementation for personnel reliability; nuclear weapons, nuclear command and control, and special nuclear materials security; use control; nuclear weapons transportation; physical security equipment; countering nuclear threats; and nuclear and radiological incident response. Additionally, Nuclear Matters serves as a focal point for DoD activities and initiatives related to countering the threat from nuclear terrorism and nuclear proliferation.

Nuclear Matters is leading a series of efforts to provide data-driven support to integrated portfolio management for 21st century nuclear deterrent sustainment and modernization. The United States is modernizing all three legs of its nuclear triad and is also reconstituting its nuclear weapons production capability at roughly the same time, while simultaneously sustaining weapons and systems that have aged well beyond their original design lives. The NWC and similar bodies seek to manage the transition from legacy Cold War delivery systems and weapons to replacement systems and warheads and make decisions that will affect U.S. national security through the end of the 21st century. To field a modern, threat-informed, nuclear deterrent that will keep pace with evolving adversary capabilities, it is necessary to conduct a variety of assessment and study efforts to enable data-driven decisions concerning the future of the U.S. nuclear deterrent.

As part of the implementation of the 2022 Nuclear Posture Review, Nuclear Matters will lead a nuclear integration and analysis effort to enable risk and opportunity analysis to inform Secretary of Defense and Deputy Secretary of Defense decision-making. This effort will leverage advanced data analytics, enterprise risk management, and modeling and simulation tools across the nuclear deterrent portfolio to support data-driven decisions by the Nuclear Weapons Council and the newly formed Nuclear Deputy's Management Action Group which, "provide[s] senior leaders a comprehensive and strategic view of the state of the enterprise and prioritize[s] actions for executive decision."

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: Nuclear Integration and Analysis	2.538	2.111	6.814

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
<p>Description: This effort will leverage advanced data analytics, enterprise risk management, and modeling and simulation tools across the nuclear deterrent portfolio to support data-driven decisions by the Nuclear Weapons Council and the newly formed Nuclear Deputy's Management Action Group which, "provide[s] senior leaders a comprehensive and strategic view of the state of the enterprise, and prioritize[s] actions for executive decision."</p> <p>FY 2023 Plans: Use a data-driven and threat-informed approach consistent with DoD and Presidential guidance to identify and communicate nuclear deterrent and modernization risks and exploit opportunities for efficiency and cost savings.</p> <p>FY 2024 Plans: This effort will result in achieving key Office of the Secretary of Defense-level metrics, including: - Improve understanding of the health and wellness of the Nuclear Enterprise; - Identify and exploit schedule and fiscal opportunities in nuclear modernization efforts; - Improve understanding of strategic advantage relative to the increasing threats posed by Russia and China; and - Identify and correct gaps and seams across the five major components of the nuclear enterprise.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: FY 2023 to FY 2024 increase for investment in data analytic requirements, including risk management, are needed for the DoD and DOE to enhance how the departments manage risk and prioritize efforts that affect the U.S. nuclear enterprise.</p>			
<p>Title: Nuclear Weapons Council (NWC)</p> <p>Description: The NWC is a joint DoD and Department of Energy (DOE)/National Nuclear Security Administration (NNSA) organization established by Congress to facilitate cooperation and coordination between the two Departments as they fulfill their dual agency responsibilities for U.S. nuclear weapons stockpile management.</p> <p>FY 2023 Plans: - Drive the activities on the statutorily-required Joint DoD-DOE NWC and its support committees to include the Nuclear Weapons Council Standing and Safety Committee, the Compartmented Advisory Committee, and the Action Officer group.</p> <p>FY 2024 Plans: - Drive the activities on the statutorily-required Joint DoD-DOE NWC and its support committees to include the Nuclear Weapons Council Standing and Safety Committee, the Compartmented Advisory Committee, the Action Officer group, as well as newly formed working groups related to advanced capabilities, budget certification, and aeroshells.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: FY 2023 to FY 2024 increase is associated with normal inflation increases.</p>	0.912	0.825	0.845
<p>Title: Nuclear Forensics, Resiliency, and Survivability</p>	0.675	0.515	0.868

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
<p>Description: Per National Security Presidential Memorandum 35, the DoD provides the United States Government (USG) National Technical Nuclear Forensics (NTNF) post-detonation collection and analysis capability. Per DoD Directive S-2060.04, the Office of the Undersecretary of Defense for Acquisition & Sustainment (OUSD(A&S)) is the office responsible for developing and leading DoD's NTNF capabilities. Collecting and analyzing post-detonation debris is critical to ensure the USG can identify the source of nuclear material and hold those responsible for an attack accountable is critical to our national defense and security. Internal and independent assessments indicate new capabilities are needed to sustain an effective deterrent against nuclear attack and meet the challenges of future threats.</p> <p>FY 2023 Plans: - Invest in nuclear forensics, survivability, and resiliency requirements to address DoD and nuclear enterprise needs</p> <p>FY 2024 Plans: - Invest in nuclear forensics, survivability, and resiliency requirements to address DoD and nuclear enterprise needs. - Exercise DoD collection and analysis including exercises with the full USG NTNF capability to demonstrate USG resolve adding to our strategic deterrence.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: The FY 2023 to FY 2024 increase is the result of additional focus on resiliency and survivability requirements.</p>			
<p>Title: Nuclear Surety</p> <p>Description: Because of their political and military importance, destructive power, and the potential consequences of an accident or unauthorized act, nuclear weapons and nuclear weapon systems require special consideration--nuclear surety-- and must be protected against risks and threats inherent in their peacetime and wartime environments. Oversight of the DoD nuclear surety program is provided by the Deputy Assistant Secretary of Defense for Nuclear Matters.</p> <p>FY 2023 Plans: - Conduct OSD oversight and provide direction for actions taken under DoDI 4540.05, Transportation of U.S. Nuclear Weapons; DoDD S-5210.81, United States Nuclear Weapons Command and Control, Safety, and Security; DoDI S-3150.07, Controlling the Use of Nuclear Weapons and DoDI S-5210.82, Protection Nuclear Weapons Coding Equipment; DoDI 5210.42, Nuclear Weapons Personnel Reliability Assurance and DoDM 5210.42, Nuclear Weapons Personnel Reliability Program; and DoDD 5210.41, Security Policy for Protecting Nuclear Weapons, DoDI O-5210.63, DoD Procedures for Security of Nuclear Reactors and Special Nuclear Materials, and DoD S-5210.92M, Physical Security for Nuclear Command and Control (NC2) Facilities.</p> <p>FY 2024 Plans: - Conduct OSD oversight and provide direction for actions taken under DoDI 4540.05, Transportation of U.S. Nuclear Weapons; DoDD S-5210.81, United States Nuclear Weapons Command and Control, Safety, and Security; DoDI S-3150.07, Controlling the</p>	0.963	0.752	1.056

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023		FY 2024
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<p>Use of Nuclear Weapons and DoDI S-5210.82, Protection Nuclear Weapons Coding Equipment; DoDI 5210.42, Nuclear Weapons Personnel Reliability Assurance and DoDM 5210.42, Nuclear Weapons Personnel Reliability Program; and DoDD 5210.41, Security Policy for Protecting Nuclear Weapons, DoDI O-5210.63, DoD Procedures for Security of Nuclear Reactors and Special Nuclear Materials, and DoD S-5210.92M, Physical Security for Nuclear Command and Control (NC2) Facilities.</p> <p>- Address cybersecurity, supply chain, and emerging threats from degrading the execution of mission critical functions as it pertains to the safety, security and control of nuclear weapons and nuclear weapon systems.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: FY 2023 to FY 2024 increase in investment to address cybersecurity, supply chain, and emerging threats from degrading the execution of mission critical functions as it pertains to the safety, security and control of nuclear weapons and nuclear weapon systems.</p>				
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<p>Title: Nuclear Incident Response and North Atlantic Treaty Organization (NATO) and International Nuclear Programs</p> <p>Description: In accordance with Presidential Policy Directive 35, US Nuclear Weapons Command and Control, Safety and Security and the DoD implementer, DoDD S-5210.81, the DoD will establish policy on nuclear weapons procedures for responding to U.S. nuclear weapons accidents and incidents and serve as the technical advisor to the Secretary of Defense in the event of a nuclear accident or incident. Coordinates with other U.S. Government Agencies and allies to ensure their standards complement DoD efforts for responding to accidents and incidents.</p> <p>Regularly consult with NATO allies through the High Level Group, which is the senior advisory body to the NATO Nuclear Planning Group, consisting of subject matter experts and supporting the Assistant Secretary of Defense for nuclear, Chemical and Biological Defense in their role as Vice-Chair of the HLG. The HLG is comprised of national policy makers and experts from Allied partners.</p> <p>The United States participates in several international programs of cooperation regarding nuclear weapons with foreign governments and regional defense organizations that involve unclassified and classified information exchanges. In general, these agreements are designed to promote safety and security, advance stockpile stewardship, and collaborate in counter-proliferation efforts.</p> <p>FY 2023 Plans:</p> <ul style="list-style-type: none"> - Serve as Chair of the Nuclear Weapons Accident and Incident Subcommittee tasked in Federal response plans and national directives with the responsibility to coordinate and execute U.S. nuclear weapons incident and accident response policy. - Coordinate overseas nuclear weapon storage and deployment issues with the Department of State, Combatant Commands, Services, and other DoD organizations. - Conduct Nuclear Weapon Incident Exercises for the DoD, in coordination and cooperation with other U.S. Government Agencies (to include state/local/tribal) and NATO Partners. 	0.350	0.350		0.375
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023		FY 2024
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<p>- Support studies for warhead replacement.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: FY 2023 to FY 2024 increase is associated with normal inflation increases.</p>				
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Title: Nuclear Matters Technical Support	4.623	4.588		4.670
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Description: Support to Nuclear Matters includes the following:

- Managing the operational, technical, and administrative support for the NWC and its subordinate bodies for a safe, secure, effective, and credible nuclear deterrent.
- Developing and coordinating all reports to the President and Congress as mandated by public law including the Report on Stockpile Assessments, Nuclear Weapons Stockpile Memorandum, NWC Certification of the NNSA Budget, Nuclear Weapons Stockpile Report, Joint Surety Report. Stockpile Stewardship and Management Plan, and Report on Platform Assessment.
- Developing technical content for briefings, reports, and decision letters; guides documents through coordination; and resolves issues within and between the agencies.
- Maintaining official records of NWC and subordinate body proceedings and other official documents.
- Address Original Classification Authority requirements for Formally Restricted Data.
- Reviewing and documenting Freedom of Information Act and Mandatory Declassification Requests (Annual average of over 500 nuclear-related requests).

FY 2023 Plans:

- Manage the operational, technical, and administrative support for the NWC and its subordinate bodies for a safe, secure, effective, and credible nuclear deterrent.
- Submit annual reports to the President and the Congress.
- Oversee DoD/DOE relationship regarding the survivability and surety of the national nuclear stockpile.
- Serve as DoD Sigma 15 Approval Authority (Interface with DOE/NNSA).
- Address Original Classification Authority requirements for Formally Restricted Data.
- Address Freedom of Information Act and Mandatory Declassification Requests.

FY 2024 Plans:

- Manage the operational, technical, and administrative support for the NWC and its subordinate bodies for a safe, secure, effective, and credible nuclear deterrent.
- Submit annual reports to the President and the Congress.
- Oversee DoD/DOE relationship regarding the survivability and surety of the national nuclear stockpile.
- Serve as DoD Sigma 15 Approval Authority (Interface with DOE/NNSA).
- Address Original Classification Authority requirements for Formally Restricted Data.

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023		FY 2024
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- Address Freedom of Information Act and Mandatory Declassification Requests.

FY 2023 to FY 2024 Increase/Decrease Statement:

FY 2023 to FY 2024 increase is associated with normal inflation increases.

Title: Research and Development Oversight, Risk Management, and PPBE Support	3.732	3.743		3.965
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Description: This support addresses program management, evaluation, and resourcing functions associated with the Physical Security Enterprise & Analysis Group (PSEAG), the Security Policy Verification Committee, and Nuclear Forensics, Resilience and Survivability programs. This support also includes Planning, Programming, Budgeting and Execution (PPBE) for the Office of the Assistant Secretary of Defense for Nuclear, Chemical, and Biological Defense Programs and the Office of the Deputy Assistant Secretary of Defense for Nuclear Matters.

FY 2023 Plans:

- Assist Nuclear Matters identify, capture, and track integrated risks, as well as aggregate or cumulative technical, geopolitical, operational, and programmatic risks associated with the nuclear enterprise, to include sustainment, modernization, and future planning.
- Assist with coordinating, planning and executing nuclear and conventional physical security development, test, evaluation and deployment of projects executed by the Military Departments by ensuring joint capability gaps are identified and to avoid duplication of effort across the DoD to maximize use of limited funds.
- Assist Nuclear Matters and the PSEAG pursue a joint-layered defense approach to Counter-Unmanned Systems (C-UxS) by integrating sensors and systems into physical security architectures and command and control systems to address this threat.
- Coordinate efforts across the DoD, interagency and international partners to develop C-UxS solutions to detect, track, identify, and defeat that support valid requirements while eliminating duplication of effort, pursuing the use of government and commercial off-the-shelf (GOTS/COTS) products, ensuring systems integration, and promoting interoperability and sustainability.
- Support all phases of the PPBE process and meet all mandated timelines for submission of related documents; contribute to the development of PPBE policy guidance for OASD(NCB); providing programmatic, business, financial, and policy assessments to the OASD(NCB); Maintaining and updating OASD(NCB) related funding profiles in official DoD financial databases and systems.

FY 2024 Plans:

- Assist Nuclear Matters identify, capture, and track integrated risks, as well as aggregate or cumulative technical, geopolitical, operational, and programmatic risks associated with the nuclear enterprise, to include sustainment, modernization, and future planning.
- Assist with coordinating, planning and executing nuclear and conventional physical security development, test, evaluation and deployment of projects executed by the Military Departments by ensuring joint capability gaps are identified and to avoid duplication of effort across the DoD to maximize use of limited funds.

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
<p>- Assist Nuclear Matters and the PSEAG pursue a joint-layered defense approach to Counter-Unmanned Systems (C-UxS) by integrating sensors and systems into physical security architectures and command and control systems to address this threat.</p> <p>- Coordinate efforts across the DoD, interagency and international partners to develop C-UxS solutions to detect, track, identify, and defeat that support valid requirements while eliminating duplication of effort, pursuing the use of government and commercial off-the-shelf (GOTS/COTS) products, ensuring systems integration, and promoting interoperability and sustainability.</p> <p>- Support all phases of the PPBE process and meet all mandated timelines for submission of related documents; contribute to the development of PPBE policy guidance for OASD(NCB); providing programmatic, business, financial, and policy assessments to the OASD(NCB); Maintaining and updating OASD(NCB) related funding profiles in official DoD financial databases and systems.</p> <p><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> FY 2023 to FY 2024 increase supports requirements to address Nuclear Enterprise risk management and the nexus of cyber security with Nuclear Surety.</p>			
Accomplishments/Planned Programs Subtotals	16.159	15.039	21.043

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

N/A

Remarks

D. Acquisition Strategy

N/A