

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 The Joint Staff **Date:** March 2024

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0603829J I <i>Joint Capability Experimentation</i>
--	---

COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	30.145	11.998	12.402	12.385	-	12.385	12.402	12.402	12.402	12.402	-	-
001: <i>Joint Capability Experimentation</i>	30.145	11.998	12.402	12.385	-	12.385	12.402	12.402	12.402	12.402	-	-

A. Mission Description and Budget Item Justification

The FY 2019 National Defense Authorization Act (NDAA) included as one of the Chairman’s responsibilities to address experimentation on future concepts and the National Defense Strategy Implementation Guidance directs that rigorous experimentation take place on concepts to ensure Department investments adequately address future requirements as well as those of today. Accordingly, the Joint Staff requires an experimentation capability to analyze and validate priority joint concept required capabilities. The Joint Staff will lead, plan, and execute the Global Integrated Wargame (GIWG) 23 events to examine the Joint Warfighting Concept (JWC) 3.0 operational logic and identified gaps to support delivery of an evaluated concept to the Secretary of Defense.

Concept analysis and validation will have a multi-faceted nature to meet the Chairman’s Title 10 responsibility of, “identifying new joint military capabilities based on advances in technology and concepts of operation, and recommending investments and experiments in such capabilities.” Wargames will assess baseline mission and campaign level outcomes of the concepts as well as identify a tradespace of potential new capabilities. This tradespace of capabilities is further explored with quantitative models and software that identify the most efficient cost and capability tradeoffs to help meet the Title 10 responsibility of “advising the Secretary on new and alternative joint military capabilities, and alternative program recommendations and budget proposals, within projected resource levels.”

The National Defense Strategy directs “early design tradeoffs in the requirements process to increase the speed of delivery.” The Joint Staff approach to tradespace exploration follows that guidance by providing a cost conscious and operationally relevant prioritization tradeoff technique early in the portfolio design process. Using this rigorous prioritization approach, the capability development cycle can efficiently focus resources on more detailed experimentation of specific capabilities to inform the requirements process. The analysis from the experimentation program will be used to provide foundational evidence to directly inform the Joint Military Net Assessment (JMNA), the Chairman’s Program Recommendation (CPR), and ultimately the Defense Planning Guidance for Joint Force development.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 The Joint Staff	Date: March 2024
--	-------------------------

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0603829J <i>I Joint Capability Experimentation</i>
--	---

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	11.998	12.402	12.385	-	12.385
Current President's Budget	11.998	12.402	12.385	-	12.385
Total Adjustments	0.000	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

Change Summary Explanation

Adjustment to comply with the Department's economic assumptions. Small reduction to Research and Development contracts.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 The Joint Staff										Date: March 2024		
Appropriation/Budget Activity 0400 / 6					R-1 Program Element (Number/Name) PE 0603829J / <i>Joint Capability Experimentation</i>				Project (Number/Name) 001 / <i>Joint Capability Experimentation</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
001: <i>Joint Capability Experimentation</i>	30.145	11.998	12.402	12.385	-	12.385	12.402	12.402	12.402	12.402	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The NDAA documents the Chairman’s responsibilities to include experimentation on future concepts. The National Defense Strategy Implementation Guidance directed rigorous experimentation on concepts as a means to ensure Department investments adequately address future requirements, not just near term. Given this, the Joint Staff must establish an experimentation capability suitable for analysis and validation of priority joint concept required capabilities. The base of experimentation and wargaming will expand through the initial operating capability to full operating capability. This will provide the necessary capacity and capability. The combination will allow the Chairman to identify cost efficient and effective capability tradeoffs. This capability will enable the Chairman to fulfill his Title 10 responsibility, “advising the Secretary on new and alternative joint military capabilities, and alternative program recommendations and budget proposals, within projected resource levels.” This capability more fully supports the Chairman’s production of the Joint Military Needs Assessment (JMNA), the Chairman’s Program Recommendation (CPR) and ultimately the Defense Planning Guidance for Joint Force development. This PE funds the Joint Staff J7 Joint Wargaming and Experimentation Division (JWED) three main Advanced Technologies efforts; 1) Globally Integrated Wargames - Advanced Technologies (GIWG –AT), 2) Experimentation Campaign events necessary such as the Joint Experimentation Forum (JEF) for force design and development events supporting Joint Warfighting Concept, Joint Fires, Joint Logistics, and Joint Command & Control, and 3) Joint Experimentation Network - Advanced Technologies (JExNet AT) develops an integrated system of data architecture across federated knowledge platforms and networks to include joint experimentation activities and various learning events that enable knowledge sharing.

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

	FY 2023	FY 2024	FY 2025
Title: Joint Capability Experimentation	11.998	12.402	12.385
Description: The NDAA documents the Chairman’s responsibilities to address experimentation on future concepts and the National Defense Strategy Implementation Guidance directed vigorous experimentation take place on concepts to ensure department investments are adequately addressing future requirements as well as those today. The project will deliver analytically rigorous, resource-conscious and operationally-validated portfolio investment strategies for the CJCS to ensure an enduring competitive advantage.			
FY 2024 Plans: Execute joint experimentation and wargaming focused on Joint Force Development (JFD) that will enhance the capability of the Joint Staff to provide the Chairman with sound analysis of the future environment, concepts, and joint capabilities. Funds support three main efforts;(1) Globally Integrated Wargames - Advanced Technologies (GIWG –AT), (2) Experimentation Campaign events necessary such as the Joint Experimentation Forum (JEF) for force design and development events supporting Joint Warfighting Concept, Joint Fires, Joint Logistics, and Joint Command & Control, and (3) Joint Experimentation Network			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 The Joint Staff		Date: March 2024		
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0603829J / <i>Joint Capability Experimentation</i>	Project (Number/Name) 001 / <i>Joint Capability Experimentation</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>- Advanced Technologies (JExNet AT) developing next generation data architecture across federated knowledge platforms, networks, experimentation activities, and various learning events to enable Joint Warfighting Concept.</p> <p>FY 2025 Plans: Execute joint experimentation and wargaming focused on Joint Force Development (JFD) that will enhance the capability of the Joint Staff to provide the Chairman with sound analysis of the future environment, concepts, and joint capabilities. Funds support three main efforts; (1) Globally Integrated Wargames - Advanced Technologies (GIWG –AT), (2) Experimentation Campaign events necessary such as the Joint Experimentation Forum (JEF) for force design and development events supporting Joint Warfighting Concept, Joint Fires, Joint Logistics, and Joint Command & Control, and (3) Joint Experimentation Network</p> <p>- Advanced Technologies (JExNet AT) developing next generation data architecture across federated knowledge platforms, networks, experimentation activities, and various learning events to enable Joint Warfighting Concept.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Minor adjustment.</p>				
Accomplishments/Planned Programs Subtotals		11.998	12.402	12.385
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
N/A				