

UNCLASSIFIED

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 I BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605804D8Z I <i>Development Test & Evaluation</i>
--	--

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	165.991	26.320	26.049	37.353	0.000	37.353	37.533	37.926	38.809	39.654	Continuing	Continuing
804: <i>Development Test & Evaluation</i>	159.236	19.672	18.991	19.683	0.000	19.683	20.105	20.542	20.972	21.428	Continuing	Continuing
048: <i>Cybersecurity DT&E for Weapon Systems</i>	6.755	6.648	7.058	7.111	0.000	7.111	7.108	7.263	7.415	7.578	Continuing	Continuing
149: <i>Independent Engineering Assessments</i>	-	-	-	10.559	0.000	10.559	10.320	10.121	10.422	10.648	Continuing	Continuing

Note

New Start (Y/N): No

Project 149 is not a new start project. In FY 2024, the Under Secretary of Defense for Research and Engineering (USD(R&E)) realigned funding from Program Element 0605142D8Z/Project 144, Program Engagement and Independent Assessments, to Project 149, Independent Engineering Assessments. This realignment consolidates Developmental Test and Evaluation (DT&E), Cybersecurity DT&E, and Independent Engineering Assessments within this Program Element.

A. Mission Description and Budget Item Justification

This program establishes the dedicated funding line to carry out the duties in accordance with Title 10 U.S.C. Section 133a, FY2018 National Defense Authorization Act (NDAA) (Public Law 115-91) section 838, and the Department of Defense (DoD) Directive 5137.02 dated July 15, 2020. In FY 2020, the Under Secretary of Defense for Research and Engineering (USD(R&E)) established the Developmental Test, Evaluation, and Assessments (DTE&A) organization to provide consolidated Developmental Test and Evaluation (DT&E) and Independent Engineering Assessment functions in a single office. The Executive Director, DTE&A, is the principal advisor to the Secretary of Defense; USD(R&E); and the Under Secretary of Defense, Acquisition and Sustainment (USD(A&S)) on DT&E, Independent Engineering Assessments, and Technical Risk Assessments in the Department of Defense (DoD). This program supports the Department's initiatives to Build a Sustainable and Long-Term Advantage and Build a Resilient Joint Force and Defense Ecosystem.

The OUSD(R&E) engages with acquisition and rapid prototype programs to provide engineering and DT&E planning expertise, including cybersecurity DT&E, and decision-quality data at major program reviews to help them succeed in modernizing key capabilities to Build a More Lethal Force. OUSD(R&E) engages with programs to help meet interoperability requirements to deepen interoperability and Strengthen Alliances. Finally, OUSD(R&E) works with Director, Operational Test and Evaluation to streamline T&E policy and guidance to improve test efficiency and reduce acquisition cost and schedule to Reform the Department for Greater Performance and Affordability.

This program supports and improves the engineering and DT&E efforts of Major Defense Acquisition Program (MDAP), Rapid Prototyping/Fielding efforts, and other Special Interest (SI) acquisition programs designated by USD(R&E) or USD(A&S) as they progress through the acquisition/development lifecycle; supports development

UNCLASSIFIED

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 I BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605804D8Z / <i>Development Test & Evaluation</i>
--	--

of the defense acquisition workforce Test and Evaluation (T&E) career field; and supports development of policy and guidance for the conduct of DT&E within the DoD. This PE also provides dedicated resources to support MDAP and Rapid Prototyping/Fielding Program Managers, Chief Developmental Testers, and Lead DT&E Organizations in the development of comprehensive, efficient, and innovative Cybersecurity DT&E strategies/plans to support key acquisition milestones and engineering/programmatic decisions.

B. Program Change Summary (\$ in Millions)	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024 Base</u>	<u>FY 2024 OCO</u>	<u>FY 2024 Total</u>
Previous President's Budget	27.280	26.652	27.264	0.000	27.264
Current President's Budget	26.320	26.049	37.353	0.000	37.353
Total Adjustments	-0.960	-0.603	10.089	0.000	10.089
• Congressional General Reductions	-	-0.603			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.960	-			
• Program Adjustment	-	-	10.089	0.000	10.089

Change Summary Explanation

The FY 2024, \$10.089 million increase is the net result of a funding realignment from PE 0605142D8Z in the amount of \$10.500 million; a funding increase of \$0.210 million for Economic Assumptions; and funding reductions of \$0.593 million to support the Historically Black Colleges and Universities/Minority Serving Institutions program, which is a priority of the USD(R&E), and \$0.028 million to support departmental priorities.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2024 Office of the Secretary Of Defense										Date: March 2023		
Appropriation/Budget Activity 0400 / 6					R-1 Program Element (Number/Name) PE 0605804D8Z / <i>Development Test & Evaluation</i>				Project (Number/Name) 804 / <i>Development Test & Evaluation</i>			
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
804: <i>Development Test & Evaluation</i>	159.236	19.672	18.991	19.683	0.000	19.683	20.105	20.542	20.972	21.428	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Project 804 provides resources to support MDAP and Rapid Prototyping/Fielding Program Managers, Chief Developmental Testers, and Lead DT&E Organizations in the development of comprehensive, efficient, and innovative DT&E strategies/plans to support key acquisition milestones and engineering decisions. This project also supports the OUSD(R&E) to manage the Test & Evaluation (T&E) career field and curriculum for the DoD acquisition workforce and develop policy and guidance for the conduct of DT&E within DoD. On behalf of the OUSD(R&E) this project executes the following activities:

- Support acquisition programs in the development of comprehensive, efficient, and innovative test strategies. Ensure that developmental test strategies are documented in Test and Evaluation Master Plans (TEMPs). For ACAT ID programs, review and approve/disapprove the DT&E strategy/plans within the TEMP. For ACAT IB/IC programs, review the DT&E strategy/plans within the TEMP and provide a recommendation to the Service Milestone Decision Authority as to whether or not the strategy is adequate.
- Support rapid prototyping, rapid fielding, and technology demonstrations efforts in the development of tailored comprehensive, efficient, and innovative DT&E strategies/plans.
- For ACAT ID programs, provide independent DT&E Sufficiency Assessments to the Defense Acquisition Executive at the Milestone B and C decisions with the goal of reducing discovery of performance issues later in the acquisition cycle.
- For ACAT IB/IC programs, provide an independent DT&E program assessment to the Service Milestone Decision Authority prior to the development RFP release decision point and at the Milestone B and C decisions with the goal of reducing discovery of performance issues later in the acquisition cycle.
- When requested by the Secretary or Deputy Secretary of Defense, provide independent developmental test assessments in support of USD(A&S) and Service Major Defense Acquisition Programs.
- Support the development of independent technical risk assessments and advise the Secretary on the progress toward meeting Key Performance Parameters, technology maturation, reliability growth projections, interoperability, and cybersecurity posture before any decision to grant Milestone A or B approval, or enter into low-rate initial production or full-rate production for ACAT ID programs or when requested by the Secretary.
- Manage the Scientific Test and Analysis Techniques Center of Excellence (STAT COE).
- Identify the DoD test infrastructure gaps and support development of the OUSD(R&E) test resources strategic plan.
- Evolve the DT&E 'state of practice' to keep pace with emerging technologies and improve test efficiency to field systems faster.
- Coordinate with Director, Operational Test and Evaluation to improve T&E efficiency and make best use of integrated testing.

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

	FY 2022	FY 2023	FY 2024
Title: Development Test and Evaluation	19.672	18.991	19.683

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2024 Office of the Secretary Of Defense		Date: March 2023
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605804D8Z / <i>Development Test & Evaluation</i>	Project (Number/Name) 804 / <i>Development Test & Evaluation</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
<p>Description: Project 804 supports and improves the DT&E efforts of MDAP, Rapid Prototyping/Fielding efforts, and other Special Interest (SI) acquisition programs as they progress through the acquisition/development lifecycle; lead the defense acquisition workforce T&E career field; and support development of policy and guidance for the conduct of DT&E within the DoD.</p> <p>FY 2023 Plans:</p> <ul style="list-style-type: none"> - Work with Acquisition Program Managers, Chief Developmental Testers, and Lead DT&E organizations to improve DT&E planning and develop comprehensive and efficient DT&E strategies/plans through the use of disciplined Developmental Evaluation Framework Matrices and Scientific Test and Analysis Techniques (STAT). - Support rapid prototyping, rapid fielding, and technology demonstrations efforts in the development of tailored comprehensive, efficient, and innovative DT&E strategies/plans. - Implement the OUSD(R&E) 'Shift Left' initiative that focuses on ensuring DT&E strategies are developed in advance of releasing Technology Maturation and Risk Reduction (TMRR) and Engineering and Manufacturing Development (EMD) RFPs, and increasing the amount and quality of data available to support production decisions with specific focus on cybersecurity, interoperability, and reliability. - For ACAT ID programs, review/approve all TEMP's submitted to support milestone reviews. For ACAT IB/IC programs, review the DT&E strategy/plans within the TEMP and provide a recommendation to the Service Milestone Decision Authority as to whether or not the strategy is adequate. - For ACAT ID programs, publish independent DT&E Sufficiency Assessments prior to Milestone B and C decisions with the goal of reducing discovery of performance issues later in the acquisition cycle. - For ACAT IB/IC programs, publish independent DT&E program assessments at the development RFP release decision point and Milestone B and C decisions with the goal of reducing discovery of performance issues later in the acquisition cycle. - When requested by the Secretary or Deputy Secretary of Defense, provide independent developmental test assessments in support of USD(A&S) and Service Milestone Decision Authorities. - Refine DT&E policies and methodologies addressing DT&E across all Acquisition programs. - Promote the application of sound DT&E and related technical disciplines across the Department's acquisition community and programs. - Implement initiatives that evolve the DT&E 'state of practice' to keep pace with emerging technologies and improve test efficiency to field systems faster. <p>FY 2024 Plans:</p> <ul style="list-style-type: none"> - Continue to work with Acquisition Program Managers, Chief Developmental Testers, and Lead DT&E organizations to improve DT&E planning and develop comprehensive and efficient DT&E strategies/plans through the use of disciplined Developmental Evaluation Framework Matrices and Scientific Test and Analysis Techniques (STAT). 			

UNCLASSIFIED

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

Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605804D8Z / <i>Development Test & Evaluation</i>	Project (Number/Name) 804 / <i>Development Test & Evaluation</i>
--	--	--

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
<ul style="list-style-type: none"> - Continue to support rapid prototyping, rapid fielding, and technology demonstrations efforts in the development of tailored comprehensive, efficient, and innovative DT&E strategies/plans. - Continue to implement the OUSD(R&E) 'Shift Left' initiative that focuses on ensuring DT&E strategies are developed in advance of releasing Technology Maturation and Risk Reduction (TMRR) and Engineering and Manufacturing Development (EMD) RFPs, and increasing the amount and quality of data available to support production decisions with specific focus on cybersecurity, interoperability, and reliability. - For ACAT ID programs, review/approve all TEMP's submitted to support milestone reviews. For ACAT IB/IC programs, review the DT&E strategy/plans within the TEMP and provide a recommendation to the Service Milestone Decision Authority as to whether or not the strategy is adequate. - For ACAT ID programs, publish independent DT&E Sufficiency Assessments prior to Milestone B and C decisions with the goal of reducing discovery of performance issues later in the acquisition cycle. - For ACAT IB/IC programs, publish independent DT&E program assessments at the development RFP release decision point and Milestone B and C decisions with the goal of reducing discovery of performance issues later in the acquisition cycle. - When requested by the Secretary or Deputy Secretary of Defense, provide independent developmental test assessments in support of USD(A&S) and Service Milestone Decision Authorities. - Refine DT&E policies and methodologies addressing DT&E across all Acquisition programs. - Promote the application of sound DT&E and related technical disciplines across the Department's acquisition community and programs. - Implement initiatives that evolve the DT&E 'state of practice' to keep pace with emerging technologies and improve test efficiency to field systems faster. <p><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> There is no significant change between FY 2023 and FY 2024.</p>			
Accomplishments/Planned Programs Subtotals	19.672	18.991	19.683

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

N/A

Remarks

N/A

D. Acquisition Strategy

N/A

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2024 Office of the Secretary Of Defense										Date: March 2023		
Appropriation/Budget Activity 0400 / 6					R-1 Program Element (Number/Name) PE 0605804D8Z / Development Test & Evaluation				Project (Number/Name) 048 / Cybersecurity DT&E for Weapon Systems			
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
048: Cybersecurity DT&E for Weapon Systems	6.755	6.648	7.058	7.111	0.000	7.111	7.108	7.263	7.415	7.578	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project provides dedicated resources to support MDAP and Rapid Prototyping/Fielding Program Managers, Chief Developmental Testers, and Lead DT&E Organizations in the development of comprehensive, efficient, and innovative Cybersecurity DT&E strategies to support key acquisition milestones and engineering/programmatic decisions. On behalf of the OUSD(R&E) this project executes the following activities:

- Support acquisition programs in the development of comprehensive, efficient, and innovative Cybersecurity DT&E strategies. Ensure that Cybersecurity DT&E strategies are documented in Test and Evaluation Master Plans (TEMPs). For ACAT ID programs, review and approve/disapprove the Cybersecurity DT&E strategy/plans within the TEMP.
- Support rapid prototyping, rapid fielding, and technology demonstrations efforts in the development of tailored comprehensive, efficient, and innovative Cybersecurity DT&E strategies/plans.
- Support the development of independent technical risk assessments and advise the Secretary on the Cybersecurity, cyber survivability, and resilience posture before any decision to grant Milestone A or B approval, or enter into low-rate initial production or full-rate production for ACAT ID programs or when requested by the Secretary.
- Identify DoD Cybersecurity test infrastructure gaps and support development of the OUSD(R&E) test resources strategic plan.
- Evolve the Cybersecurity DT&E 'state of practice' to keep pace with emerging technologies and improve test efficiency to field systems faster.
- Coordinate with Director, Operational Test and Evaluation to improve Cybersecurity T&E efficiency and make best use of integrated testing.

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

	FY 2022	FY 2023	FY 2024
Title: Cybersecurity DT&E for Weapon Systems	6.648	7.058	7.111
Description: Project 048 supports and improves the Cybersecurity DT&E efforts of MDAP, Rapid Prototyping/Fielding efforts, and other Special Interest (SI) acquisition programs as they progress through the acquisition/development lifecycle; and support development of policy and guidance for the conduct of Cybersecurity DT&E within the DoD.			
FY 2023 Plans:			
- Work with Acquisition Program Managers, Chief Developmental Testers, and Lead DT&E organizations to improve Cybersecurity DT&E planning and develop comprehensive and efficient DT&E strategies/plans through the use of disciplined Developmental Evaluation Framework Matrices and Scientific Test and Analysis Techniques (STAT). Help programs develop Cybersecurity T&E objectives that align cybersecurity requirements for security standards, cyber survivability, and operational resilience.			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2024 Office of the Secretary Of Defense		Date: March 2023
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605804D8Z / <i>Development Test & Evaluation</i>	Project (Number/Name) 048 / <i>Cybersecurity DT&E for Weapon Systems</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
<ul style="list-style-type: none"> - Support rapid prototyping, rapid fielding, and technology demonstrations efforts in the development of tailored comprehensive, efficient, and innovative Cybersecurity DT&E strategies/plans. - Implement the OUSD(R&E) 'Shift Left' initiative that focuses on ensuring Cybersecurity DT&E strategies are developed in advance of releasing Technology Maturation and Risk Reduction (TMRR) and Engineering and Manufacturing Development (EMD) RFPs, and increasing the amount and quality of data available to support production decisions. - Refine Cybersecurity DT&E policies and methodologies addressing Cybersecurity DT&E across all Acquisition programs. - Assess Cybersecurity performance/resiliency to support development of DT&E Sufficiency Assessments (ACAT ID programs) or DT&E program assessments (ACAT 1B/IC programs). - When requested by the Secretary or Deputy Secretary of Defense, provide independent Cybersecurity developmental test assessments in support of USD(A&S) and Service Milestone Decision Authorities. - Provide Cybersecurity DT&E subject matter experts to assist programs in building Developmental Evaluation Frameworks (DEFs), conducting Cybersecurity Table Top Exercises to identify potential threat vectors, and assist programs with exercising Phases 1 and 2 of the DoD Cybersecurity T&E Process. - Promote the application of sound Cybersecurity DT&E and related technical disciplines across the Department's acquisition community and programs. - Implement initiatives that evolve the Cybersecurity DT&E 'state of practice' to keep pace with emerging technologies and improve test efficiency to field systems faster. - Implement initiatives to guide acquisition programs for how to use Cybersecurity T&E planning and analysis and Cybersecurity tests to identify and mitigate cyber risk in supply chains, development environments, tools and processes. - Collaborate with the Intelligence communities to improve cyber intelligence support to Cybersecurity DT&E. - Work with Lead DT&E organizations to improve Cybersecurity DT&E workforce capability and retention as well as capacity to support earlier integrated contractor and government Cybersecurity DT&E. <p>FY 2024 Plans:</p> <ul style="list-style-type: none"> - Continue work with Acquisition Program Managers, Chief Developmental Testers, and Lead DT&E organizations to improve Cybersecurity DT&E planning and develop comprehensive and efficient DT&E strategies/plans through the use of disciplined Developmental Evaluation Framework Matrices and Scientific Test and Analysis Techniques (STAT). Help programs develop Cybersecurity T&E objectives that align cybersecurity requirements for security standards, cyber survivability, and operational resilience. - Continue to support rapid prototyping, rapid fielding, and technology demonstrations efforts in the development of tailored comprehensive, efficient, and innovative Cybersecurity DT&E strategies/plans. - Continue to implement the OUSD(R&E) 'Shift Left' initiative that focuses on ensuring Cybersecurity DT&E strategies are developed in advance of releasing Technology Maturation and Risk Reduction (TMRR) and Engineering and Manufacturing Development (EMD) RFPs, and increasing the amount and quality of data available to support production decisions. 			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2024 Office of the Secretary Of Defense		Date: March 2023		
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605804D8Z / <i>Development Test & Evaluation</i>	Project (Number/Name) 048 / <i>Cybersecurity DT&E for Weapon Systems</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
<ul style="list-style-type: none"> - Continue to refine Cybersecurity DT&E policies and methodologies addressing Cybersecurity DT&E across all Acquisition programs. - Assess Cybersecurity performance/resiliency to support development of DT&E Sufficiency Assessments (ACAT ID programs) or DT&E program assessments (ACAT 1B/IC programs). - When requested by the Secretary or Deputy Secretary of Defense, provide independent Cybersecurity developmental test assessments in support of USD(A&S) and Service Milestone Decision Authorities. - Continue to provide Cybersecurity DT&E subject matter experts to assist programs in building Developmental Evaluation Frameworks (DEFs), conducting Cybersecurity Table Top Exercises to identify potential threat vectors, and assist programs with exercising Phases 1 and 2 of the DoD Cybersecurity T&E Process. - Continue to promote the application of sound Cybersecurity DT&E and related technical disciplines across the Department's acquisition community and programs. - Implement initiatives that evolve the Cybersecurity DT&E 'state of practice' to keep pace with emerging technologies and improve test efficiency to field systems faster. - Implement initiatives to guide acquisition programs for how to use Cybersecurity T&E planning and analysis and Cybersecurity tests to identify and mitigate cyber risk in supply chains, development environments, tools and processes. - Continue to collaborate with the Intelligence communities to improve cyber intelligence support to Cybersecurity DT&E. - Continue to work with Lead DT&E organizations to improve Cybersecurity DT&E workforce capability and retention as well as capacity to support earlier integrated contractor and government Cybersecurity DT&E. <p><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> There is no significant change between FY 2023 and FY 2024.</p>				
Accomplishments/Planned Programs Subtotals		6.648	7.058	7.111
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
N/A.				

UNCLASSIFIED

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

Appropriation/Budget Activity 0400 / 6					R-1 Program Element (Number/Name) PE 0605804D8Z / <i>Development Test & Evaluation</i>				Project (Number/Name) 149 / <i>Independent Engineering Assessments</i>			
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
149: <i>Independent Engineering Assessments</i>	-	-	-	10.559	0.000	10.559	10.320	10.121	10.422	10.648	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Project 149 is not a new start project. In FY 2024, USD(R&E) realigned funding from Program Element 0605142D8Z/Project 144, Program Engagement and Independent Assessments, to Project 149, Independent Engineering Assessments. This realignment consolidates DT&E, Cybersecurity DT&E, and Independent Engineering Assessments within this Program Element. In FY 2023 funding for Project 149 can be identified in PE0605142D8Z/Project 144.

A. Mission Description and Budget Item Justification

Project 149 provides resources to support MDAP Program Managers and Chief Engineers/Systems Engineers in the development of comprehensive, efficient, and innovative engineering strategies/plans to support key acquisition milestones and engineering decisions. For ACAT ID programs, this project also conducts independent engineering assessments, including Independent Technical Risk Assessments (ITRAs), and assessments at the Preliminary and Critical Design Reviews. On behalf of the OUSD(R&E) this project executes the activities:

- Support acquisition programs in the development of comprehensive, efficient, and innovative systems engineering strategies. Provide Systems Engineering support to ACAT ID programs. Review the System Engineering Plans (SEPs) and engineering activities to ensure strategies/plans are comprehensive and consistent with best practices.
- Monitor and advise USD(R&E) and USD(A&S) on technical and engineering aspects of MDAPs and select alternate acquisition pathway programs to ensure they are adequate to support fielding and the achievement of cost, schedule and performance goals to include readiness, i.e. producibility, reliability, maintainability, sustainment, and other considerations.
- For ACAT ID programs, provide ITRAs to the Defense Acquisition Executive (DAE) at the Milestone A, B, and C decisions with the goal of identifying technical risk and outlining potential mitigation measures that should be considered during program execution. For select high priority ACAT IB/IC programs, review and approve service conducted ITRAs prior to the applicable milestone decision point.
- For ACAT ID programs, conduct Preliminary and Critical Design Review assessments to inform the Defense Acquisition Executive of technical risks, maturity of the technical baseline, and the program's readiness to proceed in accordance with statute.
- For ACAT ID programs, the ITRA and PDR assessments support the DAE decision to approve MS B in accordance with statute. They also establish the basis for the DAE to provide a brief summary report at MS A and B that summarizes ITRA results including identification of any critical technologies or manufacturing processes that have not been successfully demonstrated in a relevant environment in accordance with statute.
- Support acceleration of USD(R&E) modernization initiatives in accordance with the National Defense Strategy.
- Conduct other technical reviews as requested, such as Nunn-McCurdy certification reviews, Non-Advocate Reviews, focused technical assessments, and software readiness reviews to identify and mitigate program risk.

UNCLASSIFIED

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

Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605804D8Z / <i>Development Test & Evaluation</i>	Project (Number/Name) 149 / <i>Independent Engineering Assessments</i>
--	--	--

- Coordinate with the Services to improve engineering practices for MDAPs and rapid prototyping/fielding programs. Identify, document, and share lessons learned to improve Systems Engineering across the DoD.
- Guide Service and other component organizations in the development planning process to ensure proposed MDAP programs are executable within acceptable levels of risk.

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

	FY 2022	FY 2023	FY 2024
<p>Title: Independent Engineering Assessments</p> <p>FY 2024 Plans:</p> <ul style="list-style-type: none"> - Continue to work with ACAT ID Program Managers, Chief Engineers/Systems Engineers to improve / develop comprehensive and efficient engineering strategies/plans. - Monitor and advise USD(R&E) and USD(A&S) on technical and engineering aspects of MDAPS and select alternate acquisition pathway programs. - For ACAT ID programs, review/approve all SEPs submitted to support milestone reviews. - For ACAT ID programs, conduct Independent Risk Assessment to support the Defense Acquisition Executive with the goal of identifying technical risk and outlining potential mitigation measures that should be considered during program execution. Provide ITRA results to the DAE to support preparation of MS A and B Brief Summary reports. - For ACAT ID programs, conduct Preliminary and Critical Design Review assessments to inform the Defense Acquisition Executive of technical risks, maturity of the technical baseline, and the program’s readiness to proceed. - Provide engineers and technical leaders to develop and integrate technologies and modernization priorities. - Conduct technical reviews of acquisition programs to confirm program execution in accordance with systems engineering plans. - Provides Specialty Engineering support in the critical disciplines of reliability, software, and manufacturing to ITRAs teams and other assessments. <p>FY 2023 to FY 2024 Increase/Decrease Statement: Project 149 is not a new start project. In FY 2024, USD(R&E) realigned funding from Program Element 0605142D8Z/Project 144, Program Engagement and Independent Assessments, to Project 149, Independent Engineering Assessments. This realignment consolidates DT&E, Cybersecurity DT&E, and Independent Engineering Assessments within this Program Element. In FY 2023, funding for this Project 149 can be identified in PE0605142D8Z/Project 144.</p>	-	-	10.559
Accomplishments/Planned Programs Subtotals	-	-	10.559

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

N/A

Remarks

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2024 Office of the Secretary Of Defense		Date: March 2023
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605804D8Z / <i>Development Test & Evaluation</i>	Project (Number/Name) 149 / <i>Independent Engineering Assessments</i>

D. Acquisition Strategy
N/A