Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Office of the Secretary Of Defense	Date: March 2023
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0604940D8Z / *Central Test and Evaluation Investment Program (CTEIP)*

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	2,422.572	994.683	1,267.535	833.792	-	833.792	788.960	550.008	457.189	466.333	-	-
940: *Central Test and Evaluation Investment Program (CTEIP)*	2,422.572	994.683	1,267.535	833.792	-	833.792	788.960	550.008	457.189	466.333	-	-

Note

New Start (Y/N): No

A. Mission Description and Budget Item Justification

This program supports the Department's initiatives to defend the homeland, deter strategic attacks and aggression while prevailing in conflict, building enduring advantage, and building a resilient Joint Force and defense ecosystem. Since its inception in FY 1990, Central Test and Evaluation Investment Program (CTEIP) provides the development of critically needed, high-priority Test and Evaluation (T&E) capabilities for joint/multi-Service requirements. CTEIP investments address strategic requirements related to Hypersonics, Directed Energy, Cyber, Electronic Warfare, Nuclear Effects, Space, Autonomy, and Multi-Domain Operations. Other Investments in test infrastructure align with objectives in the Strategic Plan for DoD T&E Resources for high priority test needs and common range Infrastructure. The CTEIP uses a corporate investment approach to combine T&E needs from Service, Defense, and other Government agencies in order to maximize opportunities for joint efforts and avoid unwarranted duplication of test capabilities. CTEIP evaluates and selects for execution, proposals that align to the NDS and USD(R&E) priorities, provide the greatest return on investment, make efficient use of limited test resources, leverage Service investment, and promote joint solutions to fill test capability gaps. CTEIP provides enterprise solutions that benefit the whole Department. These investments are needed so test capabilities keep pace with U.S. and adversary technical advances as well as, with quickly changing threats.

B. Program Change Summary ($ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	994.151	819.358	834.052	-	834.052
Current President's Budget	994.683	1,267.535	833.792	-	833.792
Total Adjustments	0.532	448.177	-0.260	-	-0.260
• Congressional General Reductions	-	-0.423			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	448.600			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.532	-	-0.260	-	-0.260

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Office of the Secretary Of Defense	Date: March 2023
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0604940D8Z *I Central Test and Evaluation Investment Program (CTEIP)*

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2022	FY 2023
Project: 940: *Central Test and Evaluation Investment Program (CTEIP)*		
Congressional Add: *Central Test and Evaluation Investment Development (CTEIP)*	-	448.600
Congressional Add Subtotals for Project: 940	-	448.600
Congressional Add Totals for all Projects	-	448.600

Change Summary Explanation

The FY 2023 increase of $448.177 million is comprised of a realignment of $0.423 million for other Departmental and administrative priorities and a Congressional add of $448.600 million that will provide enhanced capabilities and increased throughput to meet increasing test demand. The $448.600 million provides $150M for hypersonic test facility modular assemblies, $98.200 million for 4-foot multi-sonic wind tunnel, $10.300 million for modeling and simulation of hypersonic test facilities, $30.000 million for hypersonic test facilities, $10.100 million for hypersonic ground testing capability, $53.000 million for hypersonics high speed test track, $52.000 million for hypersonics scramjet wind tunnel, $54.000 million for hypersonics aeroshell test facility, and $6.000 million for a spectrum superiority testbed.

The FY 2024 decrease of $0.260 million is a realignment for other Departmental and administrative priorities.

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 0604940D8Z / *Central Test and Evaluation Investment Program (CTEIP)*	Project (Number/Name) 940 / *Central Test and Evaluation Investment Program (CTEIP)*	

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
940: *Central Test and Evaluation Investment Program (CTEIP)*	2,422.572	994.683	1,267.535	833.792	-	833.792	788.960	550.008	457.189	466.333	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Central Test and Evaluation Investment Program (CTEIP) develops critically needed, high-priority Test and Evaluation (T&E) capabilities for joint/multi-Service requirements. CTEIP efforts include Hypersonics, Directed Energy, Cyber, Electronic Warfare, Nuclear Effects, Space, Autonomy and Multi-Domain Operations. Other Investments in test infrastructure align with objectives in the Strategic Plan for DoD T&E Resources for high priority test needs and common range Infrastructure.

The CTEIP uses a corporate investment approach to combine T&E needs from Service, Defense, and other Government agencies in order to maximize opportunities for joint efforts and avoid unwarranted duplication of test capabilities. CTEIP evaluates and selects for execution, proposals that align to the NDS and USD(R&E) priorities, provide the greatest return on investment, make efficient use of limited test resources, leverage Service investment; and promote joint solutions to fill test capability gaps. CTEIP provides enterprise solutions that benefit the Department as a whole.

The CTEIP provides critically needed T&E investments which align to USD(R&E) priorities and the Strategic Plan for DoD T&E Resources. These investments are needed so that test capabilities keep pace with U.S. and adversary technical advances as well as with quickly changing threats. The CTEIP includes special studies, analyses, project improvements, quick reaction efforts and strategic planning related to test capabilities and infrastructure. CTEIP investments increase efficiency and reduce the cost of testing on DoD's major ranges and test facilities. CTEIP continues to serve as the focal point for fostering common architectures throughout the test and training communities to enhance the sharing of resources and linkages between test and training ranges.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2022	FY 2023	FY 2024
Title: Central Test and Evaluation Investment Program	994.683	818.935	833.792
Description: -Develop autonomous systems test capability to provide digital robotic and autonomous systems integrated virtual environment for testing DoD autonomous ground vehicle systems and an open-air range environment capability to test full scale autonomous vehicles. -Develop autonomous teaming for a suite of capabilities furthering UAS systems integration into controlled airspace and the test tools for integrating manned-unmanned teaming between ranges. Demonstration at Pax River, MD has been successful. Initial capabilities will be delivered to NAS Pax River, MD, Redstone Arsenal, AL and Edwards AFB, CA. -Develop counter UAS lethality diagnostics to provide a shielded enclosure for flight controllers, lethality and HPM diagnostics for cUAS operations.			

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 0604940D8Z / *Central Test and Evaluation Investment Program (CTEIP)*	**Project (Number/Name)** 940 / *Central Test and Evaluation Investment Program (CTEIP)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2022	FY 2023	FY 2024
-Counter UAS effort to develop a prototype high-fidelity X-band radar for tracking cUAS capabilities against commercially available small UAS. This provides a Common Operating Picture system for real-time awareness, data collection and analysis. -Countering UAS jamming operations to develop an open-air capability for creating a mission relevant RF test environment for testing CUAS systems at NAWCAD Webster Field, MD. -Naval autonomous systems test capabilities will establish an M&S capability to test the performance of Naval surface ship autonomous systems software. -Advanced optical range tracking systems is developing the next generation suite of optical tracking systems to increase performance, reduce costs and establish secure reliable optical tracking capability on DoD open-air ranges. -A short-wave infrared zoom lens develops a short-wave IR metric zoom lens to be mounted on multiple DoD tracking systems to track, determine effects phenomenology, and TSPI of aerial directed energy targets at night and in obscuration. -Vehicle real-time test instrumentation will reduce the size, weight and power for vehicle test data collection by replacing three unique data collectors with one modular, scalable data collector with increased storage capacity. This capability supported Abrams M1A2 System Enhancement Package (SEP) V3 and Bradley M2/M3A4 FOT&E and will support future vehicle tests. -A hybrid tracking system will develop a modular system of sensors to provide a range of capabilities for providing time, space position information, in GPS denied environments, for aircraft and weapon testing. -The recent joint instrumentation suite upgrade will acquire a missile attitude instrument suite used to capture 6-DOF TSPI and validate RF and IR missile models, while meeting requirements associated with OCONUS transport and operation. -A littoral electromagnetic range will establish a secure, well-instrumented coastal test environment at NIWC, San Diego to validate emerging commercial and government electromagnetic systems and tactics. -A maritime tomahawk upgrade provides an additional telemetry frequency to Block V Tomahawk test assets enabling range safety control and telemetry in support of stream raid/simultaneous engagements.			

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 0604940D8Z / *Central Test and Evaluation Investment Program (CTEIP)*	**Project (Number/Name)** 940 / *Central Test and Evaluation Investment Program (CTEIP)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2022	FY 2023	FY 2024
-Multi-spectral data collection develops a test capability for T&E of integrated multi-spectral threat warning receivers and infrared countermeasures against complex multi-spectral threats. This effort will field co-located RF and IR mobile threat simulators and a portable C2 node for realistic threat presentation to engage the SUT. -An over water location and impact tracking system develops an open ocean weapons impact scoring system to provide persistent, relocatable range capability for beyond line of sight, high precision weapon scoring and range surveillance. -Directed Energy efforts include a high speed data recorder which develops a ruggedized, shielded, man-portable high-speed data recording system for HPM directed energy testing; a radiometrically-device Instrument for Laser Evaluation develops a diagnostic system for confirming performance of current and future HEL systems; a remote target sensor which develops a system capable of measuring HPM effects on internal components attacked by HPM systems; an S-Band threat source which develops a frequency agile S-band HPM threat source for MIL-STD 464C vulnerability testing; a tethered HPM recorder and electronic attack target effort which accelerates development of instrumentation necessary for testing UAS vulnerabilities in an HPM threat environment; and a system placement analysis capability which upgrades existing capability to provide 3D outdoor effects test planning needed to support testing of Counter UAS HPM systems. -HPM capabilities being developed include a portable electronic field sensor that covers a wide area measurement system to characterize the HPM E-field and test blue HPM effectiveness against airborne threats; a VHF threat simulator which develops a test source to support wideband VHF MIL STD 464C testing of a full-sized target such as an aircraft. -Closed loop PESA simulator develops two transportable, closed-loop threat radar systems replicating the performance of a classified, widely fielded long-range surface-to-air missile system. -Direct injection of electro optical, infra red project will develop test capability in which EO/IR imagery is directly injected into the systems' core computer via sensor emulators. -Provide an attack drone for Army T&E develops an electronic attack package for BQM-167 drone target that can target multiple radar systems under test (SUT)s at multiple frequency bands. -Develop IADS enhancements with networked threat emulation to provide a comprehensive threat-representative IADS capability at Electronic Combat Range, China Lake and other facilities providing four threat-representative Command Posts to existing EW capabilities.			

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 0604940D8Z / *Central Test and Evaluation Investment Program (CTEIP)*	**Project (Number/Name)** 940 / *Central Test and Evaluation Investment Program (CTEIP)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2022	FY 2023	FY 2024
-Interactive CNI RF environment simulator will address ISTF shortfalls in CNI RF testing on modern aircrafts by expanding upon current ISTF capability to provide an operationally relevant ground test environment. -An electronic warfare cyber techniques, effects and characteristics project development provides an RF and cyber effects test environment for Electromagnetic Maneuver Warfare. -Electronic Warfare airborne instrumentation which will provide interoperability was initiated to maximize airborne instrumentation interoperability between the CTEIP developed Common Range Integrated Instrumentation Systems and Air Force/Navy Tactical Combat Training System II, and established a blueprint merging baselines into a common system. Development will continue from FY 2021-2026 which includes upgrading CRIIS encryption to NSA requirements as well as data link and ground software upgrades to increase interoperability between CRIIS and TCTS-II on test and training ranges. -Joint EW DIADS integration effort upgrades DIADS M&S capacities to support expansion of EW testing across western test ranges. -Electronic warfare effort for open air battle tracking will establish an enterprise architecture and approach to implement multi-range aircraft instrumentation interoperability and network connectivity to meet test and training needs for air warfare missions. This includes upgrading aircraft instrumentation and multi-range aircraft compatibility and simulated effects needed to provide enlarged, realistic, interoperable battlespace as aircraft transit multiple ranges during a large-scale test and training scenario. -Air-to-Ground radar environment will develop capabilities for testing high-density air-to-air, air-to-ground, and advanced signals in an ISTF environment. The radar environment simulator will provide digital RF memory devices that capture, store, delay, scale, and return radar signals to the radar under test. -A reconfigurable closed-loop threat simulator will provide a means for quickly evaluating single and multi-aircraft EA/EP effectiveness and survivability against a dense RF environment of emergent threat systems. Integrated closed loop radar simulators of modern threats are required to fully stress the SUTs in a threat representative environment. -Provide a next-generation EW environment generator to enable multi-ship correlation of simulated signals to a specific emitter or emitters. -Hypersonic test capability improvement to develop a clean air, variable Mach ground test capability for DT&E of full-scale hypersonic boost glide and scramjet weapon systems. Procurement and detailed design continued in FY 2021.			

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 0604940D8Z / *Central Test and Evaluation Investment Program (CTEIP)*	**Project (Number/Name)** 940 / *Central Test and Evaluation Investment Program (CTEIP)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2022	FY 2023	FY 2024
-Develop a mid-pressure arc heater to expand the DoD H2 Hypersonic Test Facility to provide higher enthalpy at the mid-pressure altitudes to enable ground testing of Prompt Global Strike, Maneuvering Reentry Vehicles, and SCRamJet components such as nose cones, fins, and other leading-edge surfaces. -Develop a next generation aeroshell test capability arc heater facility that increases DoD's capacity to conduct aerothermal materials testing in support of hypersonic missiles, ballistic missiles, and other high altitude ballistic/maneuvering munitions. The system will more than double the annual test capacity. -Weather effects upgrades provide the current test track the ability to provide a small-scale rain and snow erosion test capability to validate vehicle structural design. -Develop a 6 DoF vibration tables for HEL systems mounted on ships, ground vehicles, and aircraft. -Develop a high pressure air compressor to provide additional air capability at AEDC to reduce recharge time resulting in more test runs per week at the Aerodynamic and Propulsion Test Unit and J5. -Develop an improved sled track rocket that provides a new modular rocket propulsion system for the three DoD high speed test tracks including an improved capability to ground test full scale components at hypersonic speeds. -Provide a scoring system (a radar on a raft) motion compensation table to develop a radar pedestal motion compensation mechanism and test and verification system to support weapon lethality testing in broad open ocean environments. -A Mach 7 test capability at the AEDC tunnel 9 will be returned to service to provide a full-scale aerothermal structural capability for seeker aperture development. -M&S effort to support boost glide Thermal analysis software upgrades, provides a tool set for improving capabilities for predicting aerothermal and ablation response to high speed, high temperature flow in ground and flight test environments. -M&S enhancements for weather effects develops advanced material response models validated with ground test data to predict weather erosion in flight. -Provide reconfigurable RF target simulator upgrades an Eglin AFB facility to test prototype sensors in a simulated hypersonic target and scene environment.			

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 0604940D8Z / *Central Test and Evaluation Investment Program (CTEIP)*	**Project (Number/Name)** 940 / *Central Test and Evaluation Investment Program (CTEIP)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2022	FY 2023	FY 2024
-Provide non-ballistic radar tracking algorithms and the supporting infrastructure to track non-ballistic hypersonic vehicles for Reagan Test Site. -Reagan Test Site Kiernan Reentry Measurements Site Technology Refresh will refresh KREMS Radar hardware and software systems to increase system functionality and system capability. -Accelerated vehicle durability testing develops a multi-axle vehicle chassis simulator and a drive train simulator to test heavy 4 and 5 axle vehicle performance and reliability. -This effort is comprised of eleven development efforts providing upgraded and new RCS measurement capabilities to measure and evaluate advanced low observable technologies in increasingly complex and cluttered environments. -A scene projector effort will improve high fidelity, high temperature scene protectors for installed system and hardware in the loop laboratory testing of sensors and seekers for high speed weapons and missile engagements. -Develop a dense plasma focus capability to provide an ultra-short pulse simulation capability to test the vulnerability of missile components to very short, intense bursts of neutrons from a fusion-based nuclear weapon. -Fast burst reactor upgrade develops new high purity, high enriched uranium rings and safety blocks for the fast burst reactor at White Sands Missile Range, NM to conduct neutron vulnerability testing of missile and other components. -Heavy ion test facility upgrade for Single Event Effects (SEE) testing. A Single Event Effects (SEE) adds an additional SEE Beamline to increase capacity of testing natural space radiation. -Upgrade a survivability and vulnerability rarefaction waveform eliminator to provide an improved louver system for the large blast simulator to prevent debris hitting the test object. -Upgrade a survivability and vulnerability Xenon lamp facility to provide an improved control system and subsonic wind capability for this system. -Upgrade an X-Ray simulator for test of nuclear survivability and replaces three DoD X-ray simulators that measure the susceptibility of missile components to damage from high dose warm and cold x-rays experienced in space.			

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2022	FY 2023	FY 2024
-Develop an advanced communication threat testing uplink capability that provides EW threat representative uplink jamming system for T&E of satellite system responsiveness against threat systems. -Develop a threat representative torpedo that will tactically and acoustically emulates threat torpedoes that are not currently available for surface or sub-surface ship testing. -IR and RF threat M&S upgrades 10 RF and 10 IR authoritative Intelligence Community missile models supporting the DoD Threat Model Analysis Program (TMAP), Enhanced Missile SIGnature (EMSIG) and other high-fidelity seeker models. -Provide a maritime survivability library and threat M&S tool which evaluates the lethality of emerging anti-ship weapons, using artificial intelligence/machine learning techniques. -Multispectral target simulator and emitter upgrades modernizes IR missile plume simulator emitters to meet current and future systems' fidelity requirements, as well as improve the simulators' availability and sustainability replacing obsolete equipment and augmenting the available standby emitters. -Provide a towed array threat emulator that is threat representation and will provide a modular towed array/architecture to add to the Submarine Launched Countermeasure Emulator for full duplex submarine countermeasure testing. -Provide a laser optical simulator – for high altitude that will develop a dual laser threat simulation capability to evaluate space-based ISR sensors against surrogate ground and air based laser threats. -Develop a threat representative multi-modal global navigation satellite system jammer to provide denial and deception jamming of PNT information during operational test and training. -Complete the development of the Common Operational Picture system for management of Threat Force assets. -Provide a threat representative Electronic Attack capability against 5G systems for denial, degradation and deception of service attacks during operational test and training. -Provide an airborne towed plume simulator that will provide an infrared threat missile plume-simulator to support rotary wing Aircraft Survivability. -Cyber Test Tools:			

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2022	FY 2023	FY 2024
- Develop an avionics test bed providing a common framework to allow embedded avionics components to engage in an error-free state while component level cybersecurity T&E is performed. - Automate the construction of harnesses that the fuzzer can then use to launch and feed inputs to a Linux based system under test. - This tool develops a test bench and cyber tools to assess the cyber vulnerabilities of the main communication and control channels and data links. - Network system integration and test environment for Cyber Test Capabilities expands an existing application to include cyber capabilities to monitor, check for, alert on, identify messaging, and identify the source of the messaging that is modified, or indicates a modification “tip-off” capability. - Develop a non-IP cybersecurity tool which will provide a Non-IP threat attack tool suite for Navy vessel cyber testing. - Test tool for unencrypted datalinks develops a wideband RF Cybersecurity test tool for exploiting unencrypted Radio Frequency datalinks by capturing datalink information and generating RF messages in real time. - Test tool for high speed bus threat for a fiber channel test tool to support a variety of additional attacks focused on the Fiber Channel architecture. ***FY 2023 Plans:*** -Joint EW Dominance capability to acquire multiple advanced electronic warfare threat simulators to faithfully represent modern, complex EW test scenarios and provide necessary threat density. Deliver and integrate threat representative open and closed loop capabilities at the Joint Pacific Alaska Range Complex, Nellis Test and Training Range, China Lake, and Point Mugu to enable evaluation of advanced airborne electronic attack platforms and electronic support aircraft including F-35, EA-18G, F/A-18, NGJ, B-1, B-2, and B-21. -Capability to test and evaluate vulnerability and susceptibility of microelectronics to effects encountered in nuclear and space environments. Test capability will develop and field instrumentation to simulate realistic neutron and gamma environments in a controlled environment. -Transportable instrumentation suite to assess lethality and determine terminal area scoring location and profile of hypersonic weapons in the broad open area ocean. Capability will be capable of operating in both Pacific and Atlantic oceans. -Develop and build next generation sled track at Holloman AFB to enable controlled, repeatable, and recoverable testing of hypersonic weapons (Mach 5+). Capability will install over 9 miles of 3-rail sled track and will extend current water trays to enable safe recovery of test vehicles. Effort will also make necessary spot repairs at China Lake SNORT test track and Eglin high speed test track to ensure additional capacity for all weapon testing.			

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2022	FY 2023	FY 2024
-Secure Telemetry and High-bandwidth Data Processing will enable near-real time telemetry collection and data distribution for hypersonic weapon endgame testing. SATCOM and ground-based TM networks will be installed at Reagan Test Site (Kwajalein Atoll) as well fiber connectivity between data collection sites at individual islands around the atoll. Capability will enable immediate collection and processing of data from the test vehicle and will result in vastly improved turnaround time for test results. -Continue development of DoD Microelectronics Ecosystem, hardening our next generation of microelectronics for survivability against nuclear effects (neutrons, x-ray, gamma, etc.) on the battlefield, and accelerate the testing of microelectronics used in strategic systems and space systems. -Continue development and begin fielding of Flight Test Instrumentation and Terminal Area Scoring for broad ocean area precision scoring capabilities to test lethality and impact location of nuclear modernization systems (Ground Based Strategic Deterrent, Trident, etc.). -Continue to upgrade High Speed Test Track capabilities to realistically test end-game missile lethality (seeker, warhead detonation, intercept effectiveness, etc.) at DoD high speed test tracks which are located at Holloman, China Lake, and Eglin. -Continue to develop Secure Telemetry and High Bandwidth Data Processing thru improvement of cybersecurity and the acceleration of test analysis capability at numerous long-range missile test ranges to support faster acquisition of hypersonic and nuclear modernization systems.			
FY 2024 Plans: -Continuing development of Joint Electronic Warfare Dominance Test Infrastructure by acquiring multiple threat-representative wideband radars to adequately test and assess our fifth-generation aircraft in a contested environment. -Continue development of DoD Microelectronics Ecosystem, hardening our next generation of microelectronics for survivability against nuclear effects (neutrons, x-ray, gamma, etc.) on the battlefield, and accelerate the testing of microelectronics used in strategic systems and space systems. -Continue development and begin fielding of Flight Test Instrumentation and Terminal Area Scoring for broad ocean area precision scoring capabilities to test lethality and impact location of nuclear modernization systems (Ground Based Strategic Deterrent, Trident, etc.). -Continue to upgrade High Speed Test Track capabilities to realistically test end-game missile lethality (seeker, warhead detonation, intercept effectiveness, etc.) at DoD high speed test tracks which are located at Holloman, China Lake, and Eglin.			

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2022	FY 2023	FY 2024
-Continue to develop Secure Telemetry and High Bandwidth Data Processing thru improvement of cybersecurity and the acceleration of test analysis capability at numerous long-range missile test ranges to support faster acquisition of hypersonic and nuclear modernization systems. ***FY 2023 to FY 2024 Increase/Decrease Statement:*** FY 2024 increase to support high speed test tracks..			
Accomplishments/Planned Programs Subtotals	994.683	818.935	833.792

	FY 2022	FY 2023
Congressional Add: Central Test and Evaluation Investment Development (CTEIP)	-	448.600
FY 2023 Plans: Details are classified.		
Congressional Adds Subtotals	-	448.600

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A