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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Air Force **Date:** March 2023

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0207134F / <i>F-15E Squadrons</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	0.000	231.898	200.139	50.965	0.000	50.965	92.149	52.128	163.420	0.353	Continuing	Continuing
676020: <i>F-15 Modernization</i>	0.000	231.898	200.139	50.965	0.000	50.965	92.149	52.128	163.420	0.353	Continuing	Continuing

A. Mission Description and Budget Item Justification

The F-15 is the most versatile fighter in the world today. The F-15C/D continues to provide air superiority with an undefeated and unmatched aerial combat record. The F-15E retains this air superiority capability and adds systems, such as advanced imaging and targeting systems, to meet the requirement for all-weather, deep-penetration, and night/under-the-weather, air-to-surface attack. Configured with conformal fuel tanks (CFTs), the F-15E deploys worldwide with minimal tanker support and arrives combat-ready. A mainstay in operations both domestic and abroad, a refresh of older F-15C/D aircraft with the F-15EX and upgrades to newer F-15C/D and F-15E aircraft (avionics, armament, airframe, and engines) are critical to maintaining combat viability (lethality, survivability, and supportability) in support of the Oct 2022 National Defense Strategy. With newer F-15E projected to remain in service past 2040, avionics modernization is key to long-term weapon system viability. This modernization is built on a foundation of technical and acquisition support studies (both internal to the Air Force and through outside contractors), forestalling obsolescence, exploiting proven technological advances, and leveraging new technology. Major avionics upgrades center around radar modernization (both hardware and software upgrades) and the exploitation of enhanced capability via precision timing, data delivery and processing technology, precision registration systems, cockpit Heads Up Display (HUD) and Heads Down Display, instrumentation digitization and modernization, central computer processing power increases, digital mission event recording systems and an infrared (IR)-based fire control system. The proliferation of fourth-generation enemy aircraft and sophisticated "double-digit" anti-aircraft missile systems pose a significant threat to F-15 survivability. A fully integrated electronic warfare suite holds the promise of providing improved survivability as well as expanded electronic attack capability. Nearly all improvements are linked to an aircraft operational flight program update schedule that works to integrate new capabilities with the airframe. These updates are a responsive way to increase the offensive and defensive capability and survivability of the F-15. Incorporation of corresponding spiral and/or phased technology/equipment improvements that include support equipment, mission planning systems, and training device upgrades will improve performance, supportability, and aircrew training. Funds may be used to resolve emerging safety of flight and diminishing manufacturing sources issues, accommodate technology insertion, and fulfill FAA or other mandates necessary to ensure continued aircrew safety and mission effectiveness. This includes technical and acquisition-related studies to ensure F-15 lethality and survivability beyond 2040.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2022 3.956M was expended for civilian pay expenses in this program element, and in FY 2023 6.508M is forecasted for civilian pay expenses in this program element.

The FY2024 funding request was reduced by 2.538 million to account for the availability of prior year execution balances.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0207134F / <i>F-15E Squadrons</i>
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B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	239.616	213.272	51.969	0.000	51.969
Current President's Budget	231.898	200.139	50.965	0.000	50.965
Total Adjustments	-7.718	-13.133	-1.004	0.000	-1.004
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-13.133			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-7.718	0.000			
• Other Adjustments	0.000	0.000	-1.004	0.000	-1.004

Change Summary Explanation

FY 2022 funding decreased due to SBIR reduction of \$7.718M. FY 2023 funding decreased due to Congressional Marks against Operational Flight Plan (OFP) for \$11.290M and Digital Color Display (DCD) for \$1.843M.

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force										Date: March 2023		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0207134F / F-15E Squadrons				Project (Number/Name) 676020 / F-15 Modernization			
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
676020: F-15 Modernization	0.000	231.898	200.139	50.965	0.000	50.965	92.149	52.128	163.420	0.353	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

These development efforts include F-15 Radar Enhancements Electronic Protection (EP) capabilities, Operational Flight Program (OFP) upgrades, Flight Testing, Infrared Search and Track (IRST), Multifunctional Information Distribution System-Joint Technical Radio System (MIDS-JTRS), Data Transfer Module II (DTM II) and Mobile User Objective System (MUOS)/Second Generation Anti-jam Tactical UHF Radio for NATO (SATURN). Funds may be used to resolve emerging safety of flight and diminishing manufacturing sources issues, accommodate technology insertion and fulfill FAA or other mandates necessary to ensure continued aircrew safety and mission effectiveness.

The Radar Enhancements (EP) will upgrade the digital Active Electronic Scanned Array (AESA) radar capabilities to counter sophisticated electronic threats and future capability enhancements. Prior OFP's introduced EP into the C/D-model fleet. Initial EP capability for APG-82(V)1 equipped E model aircraft took place in Suite 8E. Suite 9 and beyond will add additional EP capability to the F-15.

For the F-15 to maintain operational effectiveness, the program must continuously provide the platforms with improved capabilities. To accomplish this there is an on-going need to develop software and hardware upgrades and to flight test new capabilities and systems. The OFP funding line transitioned the Air Force to an annual software release to counter the speed of technology and maintain a competitive advantage. Additionally, the OFP provides the path for integration for other activities into operations. At any one time, there will normally be three OFP upgrades in work: one in requirements definition/pricing, one in code writing and test, and one in flight test and release preparation. The Flight Test funding line allows the Air Force to fund the on-going test effort.

Infrared Search and Track (IRST) system will provide air to air detection, tracking and ranging capability for F-15 in a radar-contested environment.

Mobile User Objective System (MUOS)/Second Generation Anti-jam Tactical UHF Radio for NATO (SATURN) will provide Satellite Communications (SATCOM) capable Air Force F-15 aircraft the ability to communicate on the MUOS constellation in support of a NORTHCOM Airspace Control Alert (ACA) requirement. SATURN will replace the Have Quick II and comply with the NSA lease key mandated dates.

The F-15 Multifunctional Information Distribution System - Joint Tactical Radio System (MIDS-JTRS) integrates and installs a new Link 16 system on the F-15s that complies with an NSA mandate on cryptographic modernization and an FAA mandate on frequency remapping. The FAA mandate requires all fielded Link-16 terminals incorporate the frequency re-mapping capability by 2025. MIDS-JTRS development will complete with FY22 funding.

The Data Transfer Module II (DTM II) is an upgraded replacement to the current, low-memory data transfer system. This system improves and supports mission planning capability and weapons employment, increases storage, replaces aging mapping system, updates interfaces, provides data encryption, and delivers cyber security.

ALQ-128a will replace the legacy ALQ-128 design and includes development and integration of a re-designed ALQ-128a Electronic Warfare Warning Set (EWWS).

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GPS M-Code / Resilient-Embedded GPS Inertial Navigation System (R-EGI) will provide enhanced Position, Navigation, and Timing (PNT) capabilities and improved resistance to existing and emerging threats to GPS such as jamming and spoofing.

The FY2024 funding request was reduced by \$2.538 million to account for the availability of prior year execution balances.

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

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<p>Title: Operational Flight Program (OFP) Development Efforts</p> <p>Description: Provides OFP program software and hardware updates to integrate new capabilities on all F-15 aircraft. This includes technical and acquisition related studies.</p> <p>FY 2023 Plans: Continue platform software development and integration of major line items supporting Avionics, Sensors, Weapons, Radar, support equipment, and ongoing Problem Report (PR) and Deficiency Report (DR) fixes. Additionally, funding supports continuation of organic software development, Special Projects development, maintenance of developmental labs, technical and acquisition related studies, and financial support for all F-15 support organizations required to develop, test, field, and maintain OFPs. The recent award of the Continuous Development & Integration (CD&I) contract leverages the Agile framework, provides flexibility to manage and rapidly field new capabilities to the F-15 to ensure F-15 lethality and survivability for the life of the platform. Continued integration efforts ensure system wide acceptance of new hardware/software and desired capabilities.</p> <p>FY 2024 Base Plans: Continue platform software development and integration of major line items supporting Avionics, Sensors, Weapons, Radar, support equipment, and ongoing Problem Report (PR) and Deficiency Report (DR) fixes. Additionally, funding supports continuation of organic software development, Special Projects development, maintenance of developmental labs, technical and acquisition related studies, and financial support for all F-15 support organizations required to develop, test, field, and maintain OFPs. The recent award of the Continuous Development & Integration (CD&I) contract leverages the Agile framework, provides flexibility to manage and rapidly field new capabilities to the F-15 to ensure F-15 lethality and survivability for the life of the platform. Continued integration efforts ensure system wide acceptance of new hardware/software and desired capabilities.</p> <p>FY 2024 OCO Plans: N/A</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement:</p>	102.808	107.110	17.039	0.000	17.039

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Funding decreased in FY 2024 in concert with Air Force priorities. Capability development and scope will be aligned to available funding.					
<p>Title: Flight Test</p> <p>Description: Flight Test Support modernization and continuance. Baseline infrastructure and personnel support for F-15 Developmental Test (DT) and Operational Test (OT) operations. Purchase long-lead test support assets and unique lab and test aircraft instrumentation.</p> <p>FY 2023 Plans: F-15 Flight Test Support continues to provide contractor support cadre at Eglin and Nellis for DT/OT support, avionics integration, lab O&M, CTF O&M, and long lead test unique equipment; i.e., program specific aircraft instrumentation, weapons instrumentation kits, data reduction/handling equipment. Repair test aircraft data recording instrumentation. Continue procurement and replacement of test aircraft obsolete instrumentation. Continue Richter Lab modernization and sustainment provisions and acquisition of resources needed to maintain a robust test capability for the entire F-15 Test fleet. Continue support to 896 TSS to maintain manpower for F-15 Test fleet modernization activity.</p> <p>FY 2024 Base Plans: F-15 Flight Test Support continues to provide contractor support cadre at Eglin and Nellis for DT/OT support, avionics integration, lab O&M, CTF O&M, and long lead test unique equipment; i.e., program specific aircraft instrumentation, weapons instrumentation kits, data reduction/handling equipment. Continue procurement and replacement of test aircraft obsolete instrumentation. Continue Richter Lab modernization and sustainment provisions and acquisition of resources needed to maintain a robust test and integration capability for the entire F-15 Test enterprise, to include support of the weapons roadmap. Continue support to 896 TSS to maintain manpower for F-15 Test fleet modification activity. Continue support of flying hour and maintenance support for F-15 loaner aircraft.</p> <p>FY 2024 OCO Plans: N/A</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Funding decreased in FY 2024 in concert with Air Force priorities. Capabilities and scope will be aligned to available funding.</p>	16.492	22.603	3.723	0.000	3.723
Title: F-15 Radar Enhancements	77.850	10.000	7.666	0.000	7.666

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<p>Description: Improvements to F-15 Radar Enhancements Electronic Protection (EP). This includes technical and acquisition related studies as well as future capability enhancements.</p> <p>FY 2023 Plans: These development efforts include F-15 capability enhancements, radar enhancements, future capabilities, integration, and OFP upgrades. Continue implementation of EP/Electronic Warfare (EW) into OFP's in addition to Combat ID candidate, interoperability, weapons integration and risk reduction activities for future OFP integration. Continue to study and analyze F-15 radar performance and utilization against current and future threat baselines. Continue to develop and test radar technology candidates for future integration in accordance with ACC's F-15 roadmap and threat analysis. This includes technical and acquisition-related studies as well as EP/EW candidates (e.g. ALQ-128). Continue integration efforts to ensure system wide acceptance of new hardware/software and desired capabilities and maintain developmental labs with latest capabilities.</p> <p>FY 2024 Base Plans: These development efforts include F-15 capability enhancements, radar enhancements, future capabilities, integration, and Operational Flight. Continue implementation of EP/Electronic Warfare (EW) into OFP's in addition to Combat ID candidate, interoperability, weapons integration and risk reduction activities for future OFP integration. Continue to study and analyze F-15 radar performance and utilization against current and future threat baselines. Continue to develop and test radar technology candidates for future integration in accordance with ACC's F-15 roadmap and threat analysis. This includes technical and acquisition-related studies as well as EP/EW candidates (e.g. ALQ-128). Continue integration efforts to ensure system wide acceptance of new hardware/software and desired capabilities and maintain developmental labs with latest capabilities.</p> <p>FY 2024 OCO Plans: N/A</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Funding decreased in FY 2024 in concert with Air Force priorities. Capability development and scope will be aligned to available funding.</p>					
<p>Title: F-15 Infrared Search and Track (IRST)</p> <p>Description: The Infrared Search and Track (IRST) system provides F-15 with the capability to detect and track objects by infrared radiation. This capability complements the radar to enhance survivability and lethality against air-to-air threats, and enhances air-to-ground targeting. It provides a passive infrared sensor system that searches for and detects infrared radiation, and provides the aircraft mission computer track file data on infrared</p>	22.014	27.000	0.000	0.000	0.000

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<p>targets. The IRST system further adds capability for the F-15 as a 4th generation fighter by supporting 5th/6th generation fighters to increase their lethality and survivability.</p> <p>FY 2023 Plans: Continue integration of the Infrared Search and Track (IRST) system into OFP and finalize documentation to support IRST system fielding. Continue integration of IRST with other F-15 advanced sensors. Continue efforts and planning to integrate future IRST capability into the next major block upgrade to ensure system wide acceptance of new hardware/software and desired capabilities.</p> <p>FY 2024 Base Plans: N/A</p> <p>FY 2024 OCO Plans: N/A</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: In FY 2023, Project Infrared Search and Track (IRST) will complete.</p>					
<p>Title: Mobile User Objective System (MUOS)/Second Generation Anti-jam Tactical UHF Radio for NATO(SATURN)</p> <p>Description: To enable the Next Gen Narrowband Beyond Line-of-Sight (BLOS) Satellite Communications (SATCOM), Mobile User Objective System (MUOS), providing worldwide Ultra High Frequency (UHF) secure communications to the F-15E Warfighters with enhanced features and connectivity options by adapting commercial third gen (3G) cellular phone system technology (utilizing geosynchronous satellites in place of cell towers) for military.</p> <p>The F-15C/D/E will receive the Second-Generation Anti-Jam Tactical Ultra-High Frequency (UHF) Radio for NATO (SATURN) capability. SATURN is the next gen UHF EPM (Electronic Protective Measures) standard designated to succeed HAVE QUICK II and will be the new standard for NATO communications.</p> <p>MUOS/SATURN development funding ended in FY 2022. MUOS/SATURN integration and future development will continue under the Suite 9.2 Operational Flight Program (OFP) 9.2 effort, expecting to field in Nov 2023.</p> <p>FY 2023 Plans: N/A</p> <p>FY 2024 Base Plans:</p>	1.253	0.000	0.000	0.000	0.000

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
N/A FY 2024 OCO Plans: N/A FY 2023 to FY 2024 Increase/Decrease Statement: N/A					
Title: F-15 Multifunctional Information Distribution System - Joint Tactical Radio System (MIDS JTRS) Description: This upgrade integrates and installs a new Link 16 system on the F-15s that complies with an NSA mandate on cryptographic modernization and an FAA mandate on frequency remapping. The FAA mandate requires all fielded Link-16 terminals incorporate the frequency re-mapping capability by 2025. MIDS-JTRS development will complete with FY 2022 funding. FY 2023 Plans: N/A FY 2024 Base Plans: N/A FY 2024 OCO Plans: N/A FY 2023 to FY 2024 Increase/Decrease Statement: N/A	4.556	0.000	0.000	0.000	0.000
Title: F-15 Digital Color Displays Description: The DCD program replaces 1980s-era low-resolution color and monochrome analog F-15E displays with modern, high-resolution digital color displays. The new displays fully realize the potential of Air Force investments in current and future sensor capabilities to include: modern AESA radar, advanced targeting pod, ASQ-236 Reece pod, Link-16/MIDS-JTRS situational display, EPAWSS, and advanced Combat Identification systems. Enhanced sensor data display capabilities will significantly enhance aircrew situational awareness and vastly improve targeting effectiveness and threat warning. FY 2023 Plans: In FY 2023, project F-15 Digital Color Displays was terminated. FY 2024 Base Plans:	2.977	0.000	0.000	0.000	0.000

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
N/A FY 2024 OCO Plans: N/A FY 2023 to FY 2024 Increase/Decrease Statement: N/A					
Title: F-15E Data Transfer Module II Description: The Data Transfer Module II (DTM II) is an upgraded replacement to the current, low-memory data transfer system. Improves and supports mission planning capability and weapons employment, increases storage, replaces aging mapping system, updates interfaces, provides data encryption and delivers cyber security. FY 2023 Plans: Funding will enable completion of deficiency reports (DRs) and updates resulting from the Functional Configuration Audit (FCA)/Physical Configuration Audit (PCA)/Manufacturing Readiness Assessment (MRA) and Validation (VAL)/Verification (VER) activities. FY 2024 Base Plans: N/A FY 2024 OCO Plans: N/A FY 2023 to FY 2024 Increase/Decrease Statement: Project Data Transfer Module II will complete with FY 2023 funding.	3.948	1.821	0.000	0.000	0.000
Title: GPS M-Code / R-EGI Description: R-EGI will provide enhanced PNT capabilities and improved resistance to existing and emerging threats to GPS such as jamming and spoofing. Agile development with Open System Architecture (OSA) to work industry interfaces to allow for resilient and robust PNT and cyber capabilities. Expand Government-owned engineering and design to provide a truly modular solution. FY 2023 Plans: Initiate F-15 specific R-EGI Design/Development on existing PNT Program Office Other Transaction Authority (OTA) and initiate Group A design for test kits to be manufactured at Rapid Development and Integration Facility	0.000	31.605	22.537	-	22.537

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
(RDIF). Begin trade studies to create a Multi-Function Processor to begin design of an Open Mission System for F-15E/EX platforms. Mature capabilities and review designs to validate proposed solution meets requirements.					
<i>FY 2024 Base Plans:</i> Award delivery order on F-15 IDIQ contract for R-EGI integration for F-15E/EX platforms. Receive prototypes from R-EGI Design/Development effort to begin testing, initiate software development on Continuous Development and Integration (CD&I) OFP contract.					
<i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> Funding decreased due to fewer requirements in FY 2024. FY 2023 design, development, and capability maturation efforts required more funding than FY 2024 platform integration efforts.					
Accomplishments/Planned Programs Subtotals	231.898	200.139	50.965	0.000	50.965

C. Other Program Funding Summary (\$ in Millions)	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
• APAF 05 F015EX: F-15EX	1,252.359	2,581.368	2,898.039	-	2,898.039	2,534.896	60.601	-	-	0.000	9,327.263
• RDTE 07 0207146F: F-15EX	103.950	83.830	100.006	-	100.006	56.129	-	-	-	0.000	343.915
• APAF 05 Line Item F01500: F-15 Modification of In- Service Aircraft, PEs 0207130, 0207134, 0207445, 0809731	162.473	194.397	34.830	-	34.830	29.690	159.093	36.185	15.059	Continuing	Continuing
• APAF 06 Line Item 000999: Initial Spares/Repair Parts (BP16)	17.937	13.836	14.081	-	14.081	17.391	17.696	18.089	18.475	Continuing	Continuing
• APAF 07 Line Item F0150P: F-15 Post Production Support	2.324	2.764	-	-	-	-	-	-	-	0.000	5.088

Remarks

D. Acquisition Strategy

Program is a continuation of effort which includes the development of all F-15 models. Funds are executed organically in support of equipment improvement, study, analysis, and test. Acquisition and management strategies for each program are independently developed and use a variety of contract methods and types to accomplish program objectives.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Air Force **Date:** March 2023

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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
OFP Suite 8/9/CD&I Development and Test	SS/ Various	Boeing : St. Louis, MO	0.000	99.509	Jun 2022	105.563	Jan 2023	13.052	Jan 2024	-		13.052	Continuing	Continuing	-
F-15 Radar Enhancement	SS/ Various	Boeing : St Louis, MO	0.000	69.598	Jun 2022	6.453	Jan 2023	3.679	Jan 2024	-		3.679	Continuing	Continuing	-
F-15 Infrared Search and Track	SS/ Various	Boeing : St Louis, MO	0.000	22.014	Feb 2022	23.624	Feb 2023	-		-		-	Continuing	Continuing	-
Multifunctional Information Distribution System-Joint Technical Radio System (MIDS-JTRS)	SS/ Various	Boeing : St. Louis, MO	0.000	4.556		-		-		-		-	Continuing	Continuing	-
Mobile User Objective System (MUOS) /Second Generation Anti-jam Tactical UHF Radio for NATO (SATURN)	C/CPAF	Boeing : St. Louis	0.000	1.253		-		-		-		-	Continuing	Continuing	-
F-15E Digital Color Display	TBD	Not specified. : TBD	0.000	2.977	Sep 2022	0.000	Sep 2023	-		-		-	Continuing	Continuing	-
F-15E Data Transfer Module II	SS/FFP	Mercury : Torrance, CA	0.000	3.948	Jun 2022	1.821	Feb 2023	-		-		-	Continuing	Continuing	-
GPS M-Code	TBD	TBD : TBD	0.000	-		25.972	Mar 2023	18.550	Mar 2025	-		18.550	Continuing	Continuing	-
Subtotal			0.000	203.855		163.433		35.281		-		35.281	Continuing	Continuing	N/A

Remarks
The individual program reference to "various" contract methods addresses other government costs for trainers, test, hardware, special studies, telemetry kits, etc. that are required to meet each program's objectives. The execution vehicles between these DoD entities vary by effort.

Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Direct Cite Authority	Allot	Various : Various	0.000	3.956		6.508		6.645		-		6.645	0.000	17.109	-
Subtotal			0.000	3.956		6.508		6.645		-		6.645	0.000	17.109	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Air Force **Date:** March 2023

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Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Contractor Test Support	SS/CPFF	Boeing : St. Louis, MO	0.000	16.492	Aug 2022	22.603	Aug 2023	3.723	Aug 2024	-		3.723	Continuing	Continuing	-
Subtotal			0.000	16.492		22.603		3.723		-		3.723	Continuing	Continuing	N/A

Remarks
The individual program reference to "various" contract methods addresses other government costs for trainers, test, hardware, special studies, telemetry kits, etc. that are required to meet each program's objectives. The execution vehicles between these DoD entities vary by effort.

Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Mgt Support Costs	Various	Various : Various	0.000	7.595	Sep 2022	7.595	Dec 2023	5.316	Dec 2023	-		5.316	Continuing	Continuing	-
Subtotal			0.000	7.595		7.595		5.316		-		5.316	Continuing	Continuing	N/A

Remarks
The individual program reference to "various" contract methods addresses other government costs for trainers, test, hardware, special studies, telemetry kits, etc. that are required to meet each program's objectives. The execution vehicles between these DoD entities vary by effort.

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	231.898	200.139	50.965	-	50.965	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Air Force **Date:** March 2023

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207134F / F-15E Squadrons	Project (Number/Name) 676020 / F-15 Modernization
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FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

F-15																												
OFP Integration and Test																												
OFP Suite 9.2 Fielding																												
OFP CD&I Development																												
OFP CD&I Release 24																												
OFP CD&I Release 25																												
OFP CD&I Release 26																												
Radar Enhancements Fielding (with OFP)																												
Infrared Search and Track Integration and Test																												
Multifunctional Information Distribution System-Joint Tactical Radio System (MIDS-JTRS) Development																												
Data Transfer Module II																												
GPS M-Code																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Air Force **Date:** March 2023

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207134F / <i>F-15E Squadrons</i>	Project (Number/Name) 676020 / <i>F-15 Modernization</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>F-15</i>				
OFP Integration and Test	1	2022	3	2026
OFP Suite 9.2 Fielding	3	2023	4	2024
OFP CD&I Development	4	2022	1	2028
OFP CD&I Release 24	4	2022	3	2024
OFP CD&I Release 25	3	2023	3	2025
OFP CD&I Release 26	3	2024	3	2026
Radar Enhancements Fielding (with OFP)	4	2022	1	2028
Infrared Search and Track Integration and Test	1	2022	4	2023
Multifunctional Information Distribution System-Joint Tactical Radio System (MIDS-JTRS) Development	4	2023	2	2024
Data Transfer Module II	4	2022	1	2024
GPS M-Code	2	2024	4	2025