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

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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 0207325F <i>Joint Air-to-Surface Standoff Missile (JASSM)</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 | 453.110 | 114.018 | 117.198 | 132.937 | 0.000 | 132.937 | 57.141 | 40.945 | 17.908 | 21.818 | 407.772 | 1,362.847 |
| 675356: <i>JASSM Extended Range (JASSM-ER)</i> | 453.110 | 114.018 | 117.198 | 132.937 | 0.000 | 132.937 | 57.141 | 40.945 | 17.908 | 21.818 | 407.772 | 1,362.847 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | - | - |

Program MDAP/MAIS Code: 555

A. Mission Description and Budget Item Justification

The Joint Air-to-Surface Standoff Missile (JASSM) family of missiles includes: JASSM Baseline (JASSM-BL/AGM-158A) and JASSM Extended Range (JASSM-ER/AGM-158B, AGM-158B-2, AGM-158B-3, and AGM-158D). JASSM-ER provides a long range, conventional air-to-surface, autonomous, precision-guided, low observable, standoff cruise missile compatible with fighter and bomber aircraft. JASSM-ER provides the capability to attack a variety of high value fixed or relocatable targets with precision, through preplanned missions or target-of-opportunity, deeper into enemy territory than JASSM-BL, all while minimizing the threat to launch aircraft. Aircraft integration of JASSM-ER/AGM-158B is complete on the B-1, F-15E, F-16, B-2, and B-52. Threshold aircraft is the B-1 and Objective aircraft are F-15E, F-16, B-52, B-2, and F-35.

The AGM-158A and AGM-158B are fielded. The AGM-158B-2, AGM-158B-3, and AGM-158D are in development and will gradually insert into the production line as the new missile builds are approved and ready. DD-250'd missiles will not be returned for modification to the newest variant.

Threats to JASSM survivability are being rapidly developed and fielded by peer-to-peer adversaries. JASSM continued development is critical to maintaining its first day of the war capability and to fulfill Combatant Commanders Operational Plan objectives. Continued development enhances capability and provides operational flexibility against current and projected threats. This is accomplished by evaluating high payoff technology development, performing risk reduction activities, and investigating new variants and/or alternate missions that may use JASSM attributes. To maximize effectiveness of existing inventory and address findings from the field, the Air Force also develops, tests, and fields improvements via software upgrades into fielded missiles and/or hardware upgrades inserted into the production line.

The AGM-158B-2 is an upgrade to the existing JASSM-ER/AGM-158B, incorporating multiple development initiatives to respond to rapidly changing threats. The AGM-158B-2 replaces obsolete components and provides a new electronic fuze, a new Global Positioning System (GPS) receiver, an upgraded Missile Control Unit (MCU), and enhanced software. The AGM-158B-2 will begin a gradual production cut-in starting in Lot 19/FY21 funding year. The AGM-158B-3 provides M-code capability and will begin a gradual production cut-in starting in Lot 21/FY23 funding year. The AGM-158D provides Weapon Data Link (WDL) capability to re-target the missile, post-launch, against relocatable or higher priority targets during mission execution. The AGM-158D will begin a gradual production cut-in starting in Lot 22/FY24 funding year.

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,

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0606398F. In FY22 0.25M was expended for civilian pay expenses in this program element, and in FY23 0.91M is forecasted for civilian pay expenses in this program element.

Implements tenets of Open, Agile, and Digital acquisition for any new subsystem hardware or software development. Integrates the system in weapon portfolio tradespace studies by conducting trade studies, system engineering, test activities, and system modeling and simulation. Builds and refines a mission modeling framework by incorporating higher-fidelity weapon system designs and updates to the threat landscape to conduct ongoing assessment of weapon system performance against the authoritative threat. Leverages common component development, in collaboration with other weapon systems, to reduce redundant costs between systems with similar subsystems requirements. Invests in analytical, data management, digital environments, networks, facilities, and security infrastructure upgrades supporting development of this program's capabilities, while leveraging DoD and DAF enterprise IT solutions.

Funding may be used to address Diminishing Manufacturing Sources and Material Shortage (DMSMS) issues.

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.

| B. Program Change Summary (\$ in Millions) | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget | 117.325 | 117.198 | 99.784 | 0.000 | 99.784 |
| Current President's Budget | 114.018 | 117.198 | 132.937 | 0.000 | 132.937 |
| Total Adjustments | -3.307 | 0.000 | 33.153 | 0.000 | 33.153 |
| • Congressional General Reductions | 0.000 | 0.000 | | | |
| • Congressional Directed Reductions | 0.000 | 0.000 | | | |
| • 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 | -3.307 | 0.000 | | | |
| • Other Adjustments | 0.000 | 0.000 | 33.153 | 0.000 | 33.153 |

Change Summary Explanation

FY22: The FY22 funding was reduced by 3.307M for Small Business Innovation Research (SBIR).

FY24: The Non Advocate Cost Analysis (NACA) identified additional FY 2024 requirements to include flight tests to support C++, AGM-158B-2, and Weapon Data Link (WDL), which leads to an FY 2024 total adjustment totaling 20.880M. Addition of 12M for M2 software and 0.273M inflation adjustment.

| C. Accomplishments/Planned Programs (\$ in Millions) | FY 2022 | FY 2023 | FY 2024 |
|---|----------------|----------------|----------------|
| Title: Warfighting Capability Enhancement | 26.017 | 24.786 | 32.203 |

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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 0207325F <i>Joint Air-to-Surface Standoff Missile (JASSM)</i> | | |
| C. Accomplishments/Planned Programs (\$ in Millions) | | FY 2022 | FY 2023 | FY 2024 |
| <p>Description: Design and development of software and mission planning changes to ensure the missile maintains operational effectiveness in classified scenarios.</p> <p>FY 2023 Plans: Continue flight tests and update classified software accordingly based on flight test results. Continue modification of classified software to enable the missile to maintain operational effectiveness in classified scenarios. FY2023 includes two planned flight tests for verification of system updates. Complete automation of Terminal Area Model (TAM) process. Continue Weapon Data Link (WDL) software development.</p> <p>FY 2024 Plans: Continue flight tests and update classified software accordingly based on flight test results. Continue modification of classified software to enable the missile to maintain operational effectiveness in classified scenarios. FY2024 includes completion of 54.0.02 software build and associated flight tests for verification of system updates.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Funding increased to incorporate M2 sw scope, addition of classified Verification & Validation scope not previously required, and increased risk on sw updates.</p> | | | | |
| <p>Title: Advanced Survivability, Integration, and Test</p> <p>Description: This effort includes development, integration and testing and will continue to enhance missile survivability through subsystem updates including cyber security implementation. It also ensures compatibility of the former wing design with new missile subsystems. The AGM-158B-2 will include a new Electronic Safe and Arm Fuze (ESAF), JASSM Anti-Jam Global Positioning System (GPS) Receiver with Selective Availability Anti-Spoofing Module (JAGR-S V5), an upgraded Missile Control Unit (MCU), Gigabit Ethernet Connector, and enhanced C++ software. This missile variant leverages LRASM coatings, Power Converter Assembly (PCA), Aft Cover and Power and Engine Control Unit (PECU) for improved production commonality.</p> <p>FY 2023 Plans: Continue developmental testing for AGM-158B-2 which will include ground mounts, captive carry, and full release missions. Additional efforts to support this development will include agile software validation using Software-in-the-Loop (SIL), Hardware-in-the-Loop (HIL), and Processor-in-the-Loop (PIL) labs, program protection and cyber security efforts in support of Interim Authority to Operate (IATT) and Authority to Operate (ATO) requirements.</p> <p>FY 2024 Plans:</p> | | 55.935 | 32.115 | 15.444 |

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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 0207325F <i>Joint Air-to-Surface Standoff Missile (JASSM)</i> | | |
| C. Accomplishments/Planned Programs (\$ in Millions) | | FY 2022 | FY 2023 | FY 2024 |
| Continue and finalize developmental testing for AGM-158B-2 which will include full release missions. Additional efforts to support this development will include program protection and cyber security efforts in support of IATT and ATO requirements. FY 2023 to FY 2024 Increase/Decrease Statement: Funding decreased because many design and test activities conclude. | | | | |
| Title: Electronic Safe and Arm Fuze (ESAF) Description: ESAF will resolve Fuze Munitions Unit-156A/B (FMU-156A/B) obsolescence and reliability issues, improve yield, and potentially lower costs. FY 2023 Plans: Effort will be complete resulting in a fully qualified FMU-156B/B ESAF. FY 2024 Plans: Effort will be complete resulting in a fully qualified FMU-156B/B ESAF. FY 2023 to FY 2024 Increase/Decrease Statement: N/A | | 1.000 | 0.000 | 0.000 |
| Title: Weapon Data Link (WDL) Description: This effort includes development of the Weapon Data Link (WDL), as well as integration and testing efforts. The WDL allows warfighters to retarget the weapons via line-of-sight and beyond-line-of-sight, allowing the missile to attack relocatable and/or time sensitive targets post aircraft release. The WDL program is designed to use an open system architecture standard with outside communication nodes but integrated into a proprietary missile system. FY 2023 Plans: Continue WDL radio, power supply, and antenna development and prototyping events leading to Systems Requirement Review (SRR). Continue fuel tank redesign effort to ensure WDL volume is available to support no degradation to range capabilities. FY 2024 Plans: Continue development efforts leading to Production Readiness Review. Begin sub-system and system-level hardware demonstrations, as well as testing and qualification activities required for flight testing targeted in FY25. FY 2023 to FY 2024 Increase/Decrease Statement: Funding increased due to changes based on services interoperability requirement. This change drives need for fuel tank redesign, WDL radio procurement and additional antennas. | | 25.681 | 56.782 | 81.496 |
| Title: Other Development/Safety/Survivability | | 5.385 | 3.515 | 3.794 |

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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 0207325F <i>I Joint Air-to-Surface Standoff Missile (JASSM)</i> |
|--|--|

| C. Accomplishments/Planned Programs (\$ in Millions) | FY 2022 | FY 2023 | FY 2024 |
|--|----------------|----------------|----------------|
| <p>Description: This system improvement program (SIP) focuses on maintaining and upgrading capability and includes development, integration, and testing and will continue to enhance missile survivability through subsystem updates, including cyber security implementation. The SIP will explore and exploit new form, fit, function hardware to maximize missile performance and address newly matured capabilities and emerging threats. These updates will be incorporated via engineering change proposals (ECPs). Potential efforts could include development and integration of advanced Precision, Navigation, and Timing (PNT) capabilities (e.g. Global Positioning System (GPS), non-GPS, optical, passive, active, etc.), evaluations (study analysis), survivability enhancements, safety certifications, flight testing, and Diminishing Manufacturing Sources and Material Shortage (DMSMS). A GPS Military (M) Code receiver is being developed to enable the missile to operate in a GPS-denied environment.</p> <p>FY 2023 Plans: Continue evaluation activity addressing JASSM's obsolescence plan directed activities to include safety and survivability studies. Continue GNC and autopilot software allocations and updates.</p> <p>FY 2024 Plans: Continue evaluation activity addressing JASSM's obsolescence plan directed activities to include safety and survivability studies. Continue GNC and autopilot software allocations and updates.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Funding increased due to continued Diminishing Manufacturing Sources and Material Shortage issues.</p> | | | |
| Accomplishments/Planned Programs Subtotals | 114.018 | 117.198 | 132.937 |

| D. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | |
|--|----------------|----------------|-------------------------|------------------------|--------------------------|----------------|----------------|----------------|----------------|-----------------------------|-------------------|
| Line Item | 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 |
| • MPAF 02 0207325F: JASSM | 710.550 | 784.971 | 1,685.668 | - | 1,685.668 | 823.060 | 819.713 | 827.541 | 849.067 | 0.000 | 6,500.570 |

Remarks

E. Acquisition Strategy
 The JASSM Acquisition Strategy was amended and approved on September 8, 2017. This amendment enables the JASSM program to introduce upgrades which ensure its viability as the threat environment evolves. All current development contracts use a Cost Plus type contract.

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

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| Appropriation/Budget Activity 3600 / 7 | R-1 Program Element (Number/Name) PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM) | Project (Number/Name) 675356 / JASSM Extended Range (JASSM-ER) |
|--|---|--|

| 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 | | | |
| Warfighting Capability Enhancement | SS/CPAF | Lockheed Martin : Orlando, FL | 57.809 | 26.017 | Nov 2021 | 24.786 | Nov 2022 | 27.203 | Nov 2023 | - | | 27.203 | 41.466 | 177.281 | 153.217 |
| Advanced Survivability, Integration, and Test | SS/CPFF | Lockheed Martin : Orlando, FL | 76.097 | 55.935 | Nov 2021 | 32.115 | Nov 2022 | 15.444 | Nov 2023 | - | | 15.444 | 15.444 | 195.035 | 160.000 |
| ESAF | SS/CPFF | Lockheed Martin : Orlando, FL | 32.321 | 1.000 | Mar 2022 | - | | - | | - | | - | 0.000 | 33.321 | 22.331 |
| M-code and Related Development Efforts | SS/CPFF | Lockheed Martin : Orlando, FL | 13.851 | - | | - | | - | | - | | - | 0.000 | 13.851 | 11.531 |
| Weapon Data Link | SS/CPFF | Various : Orlando, FL | 14.601 | 25.681 | Dec 2021 | 56.782 | Dec 2022 | 86.496 | Dec 2023 | - | | 86.496 | 80.218 | 263.778 | 170.000 |
| JASSM-ER development test missile procurement (for DT/OT), parts upgrade, software updates, product improvements, survivability enhancements, LTIK, ITIK, and obsolescence. | Various | Lockheed Martin : Orlando, FL | 172.536 | 5.035 | Jan 2022 | 1.595 | Mar 2023 | 0.794 | Mar 2024 | - | | 0.794 | 18.597 | 198.557 | 185.000 |
| Subtotal | | | 367.215 | 113.668 | | 115.278 | | 129.937 | | - | | 129.937 | 155.725 | 881.823 | N/A |

Remarks
 -Developmental Test/Operational Test (DT/OT)
 -Intelligent Telemetry Instrumentation Kit (ITIK)
 -Legacy Telemetry Instrumentation Kits (LTIK)
 -Electronic Safe and Arm Fuze (ESAF)

| 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 | | | |
| Support | C/CPAF | Not specified. : TBD | 0.000 | 0.250 | May 2022 | 0.910 | Mar 2023 | - | | - | | - | 0.000 | 1.160 | - |
| Subtotal | | | 0.000 | 0.250 | | 0.910 | | - | | - | | - | 0.000 | 1.160 | 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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| Appropriation/Budget Activity 3600 / 7 | R-1 Program Element (Number/Name) PE 0207325F / Joint Air-to-Surface Standoff Missile (JASSM) | Project (Number/Name) 675356 / JASSM Extended Range (JASSM-ER) |
|--|---|--|

| 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 | | | |
| Government Test Support. Includes flight test equipment, targets, 96th Test Wing and Range Support, AEDC | Various | 96 TW, Eglin AFB : TBD | 38.920 | - | | - | | - | | - | | - | 0.000 | 38.920 | - |
| 6 IT/6 OT Assets | SS/CPAF | Lockheed Martin : Orlando, FL | 12.733 | - | | - | | - | | - | | - | 0.000 | 12.733 | - |
| 12 Operational Test (OT) assets | SS/FFP | Lockheed Martin : Orlando, FL | 24.642 | - | | - | | - | | - | | - | 0.000 | 24.642 | 24.642 |
| Subtotal | | | 76.295 | - | | - | | - | | - | | - | 0.000 | 76.295 | N/A |

Remarks
 Test and Evaluation in FY19 and beyond will be incorporated into each separate development effort rather than broken out into its own category
 -Arnold Engineering Development Complex (AEDC)

| 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 Management Administration (PMA). Provides program office oversight of development and upgrade activities. | Various | PMA : Eglin AFB, FL | 9.600 | 0.100 | Mar 2022 | 1.010 | Mar 2023 | 3.000 | Apr 2024 | - | | 3.000 | 0.400 | 14.110 | 0.000 |
| Subtotal | | | 9.600 | 0.100 | | 1.010 | | 3.000 | | - | | 3.000 | 0.400 | 14.110 | N/A |

| | 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 | | 453.110 | 114.018 | 117.198 | 132.937 | - | 132.937 | 156.125 | 973.388 | 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 0207325F / Joint Air-to-Surface Standoff Missile (JASSM) | Project (Number/Name) 675356 / JASSM Extended Range (JASSM-ER) |

| 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 |

| <i>RDT&E Schedule Details</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Warfighter Capability Enhancement | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Advanced Survivability, Integration, and Test | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Electronic Safe and Arm Fuze (ESAF) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ESAF Production Readiness Review (PRR) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weapon Data Link | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diminishing Manufacture Sources and Obsolescence Evaluation/Development | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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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 0207325F / <i>Joint Air-to-Surface Standoff Missile (JASSM)</i> | Project (Number/Name) 675356 / <i>JASSM Extended Range (JASSM-ER)</i> |

Schedule Details

| Events by Sub Project | Start | | End | |
|---|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| <i>RDT&E Schedule Details</i> | | | | |
| Warfighter Capability Enhancement | 1 | 2022 | 4 | 2028 |
| Advanced Survivability, Integration, and Test | 1 | 2022 | 3 | 2024 |
| Electronic Safe and Arm Fuze (ESAF) | 2 | 2022 | 2 | 2023 |
| ESAF Production Readiness Review (PRR) | 3 | 2022 | 1 | 2023 |
| Weapon Data Link | 1 | 2022 | 4 | 2026 |
| Diminishing Manufacture Sources and Obsolescence Evaluation/Development | 2 | 2022 | 4 | 2028 |

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