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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 0207327F / <i>Small Diameter Bomb (SDB)</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 | - | 31.003 | 32.713 | 37.518 | 0.000 | 37.518 | 29.857 | 24.874 | 25.373 | 25.770 | Continuing | Continuing |
| 675191: <i>SDB Increment II</i> | - | 31.003 | 32.713 | 37.518 | 0.000 | 37.518 | 29.857 | 24.874 | 25.373 | 25.770 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

Note
 In FY 2021, PE 0604329F, BA05, Project Small Diameter Bomb (SDB) - EMD efforts were transferred to PE 0207327F, BA07, Project Small Diameter Bomb (SDB), due to SDB II completion of BA05: System Development & Demonstrations (SDD) moved to Operational Systems Development BA07.

A. Mission Description and Budget Item Justification

GBU-53/B Small Diameter Bomb Increment II (SDB II) StormBreaker is a joint interest United States Air Force (USAF) and Department of Navy (DoN) Acquisition Category (ACAT) IC program, with the USAF as the lead service. SDB II addresses the following warfighter requirements: attack moving and stationary targets; adverse weather operations; multiple ordnance carriage; precision munitions capability; reduced munitions footprint; increased weapons effectiveness; minimized potential for collateral damage; reduced susceptibility of munitions to countermeasures; and provides a network-enabled weapon capability via Link-16 and Ultra High Frequency (UHF) weapon data link. SDB II is a key component of the Air Force Global Strike Task Force Concept of Operations (CONOPs). The threshold aircraft for the USAF is the F-15E, and the threshold aircraft for the DoN are the F-35B and F-35C. Objective aircraft include the F-22, F-16, F-35A, B-2, A-10, MQ-9, B-1, B-52, AC-130 and the F/A-18E/F. SDB II is compatible with the Bomb Rack Unit-61 (BRU-61) miniature munitions carriage, Type II carriage systems, the Container Numerical Unit-660/E (CNU-660/E) carriage system, the Common Munitions Built In Test (BIT)/Reprogramming Equipment (CMBRE), and the Joint Mission Planning System (JMPS). SDB II will develop and field a single weapon storage container (USAF) and a dual weapon storage container (DoN).

SDB II completed a competitive Risk Reduction in October 2009 and entered Milestone B Engineering and Manufacturing Development (EMD) in August 2010. A Fixed Price Incentive Firm EMD contract with five options for annual Low Rate Initial Production (LRIP) lots (FY15-FY19) was awarded in August 2010. SDB II received Milestone C approval to enter LRIP in June 2015 and completed an Acquisition Program Baseline (APB) update. Contract options for LRIP Lots 1-5 have been exercised. Initial Operational Test and Evaluation (IOT&E) started June 2018 and completed December 2019. SDB II was fielded for the F-15E in September 2020. DoN's first production lot (Lot 4/FY19) supports F/A-18E/F IOC. The Milestone Decision Authority approved an APB update May 2022 to incorporate the new Air Force inventory objective and adjust for new F-35B/C software schedules.

Implements tenets of Open, Agile, and Digital acquisition for any new subsystem hardware or software development. Integrates the system in weapon portfolio trade space 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

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redundant costs between systems with similar subsystems requirements. Invests in analytical, information management, data management, digital environments, networks, facilities, and security infrastructure upgrades directly supporting development and sustainment of this program's capabilities, while leveraging DoD and DAF enterprise IT solutions.

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 FY22 \$0.296M was expended for civilian pay expenses in this program element, and in FY23 \$0.689M is forecasted for civilian pay expenses in this program element.

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 | 32.109 | 27.713 | 29.133 | 0.000 | 29.133 |
| Current President's Budget | 31.003 | 32.713 | 37.518 | 0.000 | 37.518 |
| Total Adjustments | -1.106 | 5.000 | 8.385 | 0.000 | 8.385 |
| • Congressional General Reductions | 0.000 | 0.000 | | | |
| • Congressional Directed Reductions | 0.000 | 0.000 | | | |
| • Congressional Rescissions | 0.000 | 0.000 | | | |
| • Congressional Adds | 0.000 | 5.000 | | | |
| • Congressional Directed Transfers | 0.000 | 0.000 | | | |
| • Reprogrammings | 0.000 | 0.000 | | | |
| • SBIR/STTR Transfer | -1.106 | 0.000 | | | |
| • Other Adjustments | 0.000 | 0.000 | 8.385 | 0.000 | 8.385 |

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 675191: *SDB Increment II*

Congressional Add: *Precise Navigation*

| | FY 2022 | FY 2023 |
|---|----------------|----------------|
| | 4.827 | 5.000 |
| Congressional Add Subtotals for Project: 675191 | 4.827 | 5.000 |
| Congressional Add Totals for all Projects | 4.827 | 5.000 |

Change Summary Explanation

FY22 Congressional Add final \$4.827M

FY22 SBIR decrease \$1.106M

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FY23 Congressional Add: Precise Navigation.
FY24 increase of \$8.3M to fund SDB II to NACA.

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

| | FY 2022 | FY 2023 | FY 2024 |
|---|---------|---------|---------|
| <p>Title: SDB II Development and Engineering Changes</p> <p>Description: Development activities to deliver capabilities in the SDB II Capability Development Document (CDD). Design, develop, integrate, model, test, and qualify engineering changes to SDB II baseline hardware and software to meet emerging threat, new technologies and to maintain compatibility with external systems. Activities include, but are not limited to, DoD-mandated data link cryptographic modernization, program protection, exportability features, cyber security, advanced guidance, navigation and control, enhanced lethality, precise/advance navigation, and address obsolescence issues and affordability opportunities. Conduct trade studies and concept development for technology refresh redesigns as based on obsolescence forecasts.</p> <p>FY 2023 Plans: Continue cryptographic modernization weapon data link integration and subsystem level design verification testing. Complete integration of the TacNet WDL 1.5 into the current SDB II All-Up-Round (AUR) design. Complete production readiness activities at the component level. Continue collaboration with NSA on cryptographic modernized WDL key testing, fielding, and management. Continue enhancements for JMPS and OFP software. Conduct AUR testing.</p> <p>Continue redesign and design verification tests of electronic circuit card assemblies (CCAs) affected by obsolescence and M-Code moving toward Proof of Manufacturing (POM) quality CCAs. Perform OFP and firmware updates to support new CCA designs. Complete POD-level integrated CCA stack design verification testing and qualification. Finalize POM designs and purchase POM test assets. Continue integration of the TacNet 1.5 WDL with the new CCAs and associated OFP changes.</p> <p>Continue development, qualification, and testing of engineering changes associated with program protection, exportability, cyber security, enhanced lethality, survivability, threat defeat, software-based capability enhancements, obsolescence, and affordability. Continue System Improvement Program (SIP) to continually advance capability of the weapon and transition program to a steady OFP update cycle. Procure developmental test assets to support developmental test and conduct developmental Captive Flight Tests and platform integration testing. Continue integration of SDB II with Command and Control Infrastructure, including AOC integration and JTAC kits. Continue technical order updates to support ongoing OFP development efforts. Continue BRU-61 OFP updates and integration. Continue risk reduction activities for technology refresh redesigns as required based on obsolescence forecasts.</p> <p>FY 2024 Plans:</p> | 12.949 | 10.386 | 23.998 |

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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 0207327F / <i>Small Diameter Bomb (SDB)</i> | | |
| C. Accomplishments/Planned Programs (\$ in Millions) | | FY 2022 | FY 2023 | FY 2024 |
| <p>Complete cryptographic modernization weapon data link integration and subsystem level design verification testing. Continue collaboration with NSA on cryptographic modernized WDL key testing, fielding, and management. Continue enhancements for JMPS and OFP software. Complete all-up-round (AUR) testing.</p> <p>Continue design verification tests of electronic circuit card assemblies (CCAs) affected by obsolescence and M-Code moving toward AUR level testing. Perform OFP and firmware updates to support new CCA designs. Complete POM-level integrated CCA stack design verification testing and qualification. Complete integration and test of the TacNet 1.5 WDL with the new CCAs and associated OFP changes.</p> <p>Continue development, qualification, and testing of engineering changes associated with program protection, exportability, cyber security, enhanced lethality, survivability, threat defeat, software-based capability enhancements, obsolescence, and affordability. Increase System Improvement Program (SIP) to continually advance capability of the weapon and transition program to a steady OFP update cycle. Procure developmental test assets to support developmental test and conduct developmental Captive Flight Tests and platform integration testing. Continue integration of SDB II with Command and Control Infrastructure, including AOC integration and JTAC kits. Continue technical order updates to support ongoing OFP development efforts. Continue BRU-61 OFP updates and integration. Conduct trade studies and concept development for technology refresh redesigns as required based on obsolescence forecasts.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Funding increased to support separate integration activities for TacNet 1.5 WDL with the current AUR CCAs in advance of M-Code and new CCAs being ready for AUR testing. Delays in the underlying M-Code ASIC, and stop work on receiver development due to funding constraints, and secure processor test equipment delays all contributed to increased funding in FY24. Program will also increase System Improvement Program activities in response to prioritized warfighter requirements post fielding.</p> | | | | |
| <p>Title: SDB II M-Code</p> <p>Description: M-Code provides an enhanced anti-jam capability and secures access to military GPS signals. Activities include, but are not limited to, design, development, test and qualification of engineering changes to the SDB II system required for M-Code, and enhanced anti-jam capability. M-Code will provide the ability to operate in increasing adversarial anti-access/area-denial (A2/AD) jamming environments with increased accuracy, better signal acquisition, and enhanced security features.</p> <p>FY 2023 Plans: Continue activities to provide SDB II with M-Code capabilities for improved anti-jam and secure access to military GPS signals. Continue development, test, and qualification activities for M-Code receiver and continue associated component integration. Conduct M-Code receiver-level qualification, including security certification. Conduct production readiness activities at the receiver level. Continue building section level and All Up Round (AUR) developmental test assets and conduct section level design</p> | | 13.227 | 17.327 | 13.520 |

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| C. Accomplishments/Planned Programs (\$ in Millions) | FY 2022 | FY 2023 | FY 2024 |
|--|----------------|----------------|----------------|
| <p>verification testing as well as All Up Round testing and qualification. Update mission planning and threshold aircraft OFP software to ensure aircraft-to-weapon integration and transmission of the appropriate M-Code initialization data and crypto keys. Implement engineering change proposals required by GPS Directorate to comply with signal-in-space interface control documents, key management distribution and security requirements. Begin AUR-level builds in support of ground qualification.</p> <p>FY 2024 Plans: Continue activities to provide SDB II with M-Code capabilities for improved anti-jam and secure access to military GPS signals. Continue development, test, and qualification activities for M-Code receiver and continue associated component integration. Continue M-Code receiver-level qualification, including security certification. Conduct production readiness activities at the receiver level. Continue building section level and All Up Round (AUR) developmental test assets and conduct section level design verification testing as well as All Up Round testing and qualification. Update mission planning and threshold aircraft OFP software to ensure aircraft-to-weapon integration and transmission of the appropriate M-Code initialization data and crypto keys. Implement engineering change proposals required by GPS Directorate to comply with signal-in-space interface control documents, key management distribution and security requirements. Build additional AUR-level builds in support of flight qualification.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Funding decrease due to completion of CAAP M-Code ASIC and receiver component level testing required for integration into the AUR, and purchase of M-Code test articles in FY23.</p> | | | |
| Accomplishments/Planned Programs Subtotals | 26.176 | 27.713 | 37.518 |

| | FY 2022 | FY 2023 |
|--|----------------|----------------|
| <p>Congressional Add: Precise Navigation</p> <p>FY 2022 Accomplishments: Continued design, integration, and test of candidate seeker-based algorithms suitable for operation in a GPS denied environment. Integrate algorithms into the Integrated Flight Simulator (IFS) to characterize performance over various terrains. Integrate software into Captive Flight Test (CFT) pod and conduct Captive Flight Test (CFT) events for data collection. Evaluate candidate algorithm performance to determine if any are suitable for a tactical implementation.</p> <p>FY 2023 Plans: Design, integration, and test of candidate seeker-based algorithms suitable for operation in a GPS denied environment. Integrate algorithms into the Integrated Flight Simulator (IFS) to characterize performance over various terrains. Integrate software into Captive Flight Test (CFT) pod and conduct Captive</p> | 4.827 | 5.000 |

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| | | |
|--|----------------|----------------|
| | FY 2022 | FY 2023 |
| Flight Test (CFT) events for data collection. Evaluate candidate algorithm performance to determine if any are suitable for a tactical implementation. | | |
| Congressional Adds Subtotals | 4.827 | 5.000 |

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

| <u>Line Item</u> | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024</u> <u>Base</u> | <u>FY 2024</u> <u>OCO</u> | <u>FY 2024</u> <u>Total</u> | <u>FY 2025</u> | <u>FY 2026</u> | <u>FY 2027</u> | <u>FY 2028</u> | <u>Cost To</u> <u>Complete</u> | <u>Total Cost</u> |
|--|----------------|----------------|-------------------------------|------------------------------|--------------------------------|----------------|----------------|----------------|----------------|-----------------------------------|-------------------|
| • MPAF 02 Line Item SDB002: <i>Small Diameter Bomb II</i> | 275.934 | 379.006 | 291.553 | - | 291.553 | 327.758 | 310.736 | 281.213 | 315.496 | 3,262.708 | 5,444.404 |
| • RDTE 05 PE 0604329N: <i>Small Diameter Bomb II</i> | 35.892 | 39.639 | 54.500 | - | 54.500 | 18.200 | 10.900 | 10.500 | 9.600 | 0.000 | 179.231 |
| • WPN Line Item 223800: <i>Small Diameter Bomb II</i> | 33.764 | 100.700 | 65.500 | - | 65.500 | 75.600 | 86.200 | 85.700 | 92.200 | 0.000 | 539.664 |

Remarks

DoN RDT&E funds include F-35B and F-35C Integration and Support Cost.

E. Acquisition Strategy

The SDB II Engineering and Manufacturing Development (EMD) contract was awarded using competitive procedures. At the completion of the 42-month Risk Reduction phase in October 2009, one contractor was selected in April 2010 and awarded the EMD contract in August 2010. The EMD contract is a Fixed-Price Incentive Firm (FPIF) contract with priced production options for the first five production lots. SDB II production Lots 1-3 are FPIF. Production Lots 4-5 are firm fixed price. The Government is buying the SDB II based on the contractor System Performance Specification (SPS) which has been approved by the Government. The contractor is accountable for system performance as defined in the SPS and a system warranty as defined in the EMD contract and follow-on production contracts. Accordingly, the contractor is accountable to the Government for the design of the weapon system, as well as the planning and execution of the Development Test and Evaluation (DT&E) program to verify system performance. The Government formally arranges and funds the use of Government flight test support for DT&E and OT&E.

In September 2017, the Government awarded a sole source indefinite delivery indefinite quantity (IDIQ) contract to Raytheon Missile Systems to design, develop, integrate, model, test, and qualify engineering changes to SDB II baseline hardware and software to meet emerging threats and to maintain compatibility with external systems. Activities include, but are not limited to M-Code GPS, data link cryptographic modernization, program protection, exportability features, cyber security, advanced guidance, navigation and control, enhanced lethality, and address obsolescence issues and affordability opportunities.

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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Appropriation/Budget Activity
3600: *Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development*

R-1 Program Element (Number/Name)
PE 0207327F / *Small Diameter Bomb (SDB)*

0606398F. In FY22 \$0.819M was expended for civilian pay expenses in this program element, and in FY23 \$0.844M is forecasted for civilian pay expenses in this program element.

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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 | | | |
| Engineering Changes & Technical Support | SS/ Various | Raytheon : Tucson, AZ | - | 10.210 | Dec 2021 | 5.850 | Dec 2022 | 20.047 | Dec 2023 | - | | 20.047 | 0.000 | 36.107 | 136.520 |
| M-Code Integration | SS/ Various | Raytheon : Tucson, AZ | - | 13.227 | Dec 2021 | 17.327 | Dec 2022 | 13.520 | Dec 2023 | - | | 13.520 | 0.000 | 44.074 | 109.437 |
| Precision Navigation | Various | Not specified. : TBD | - | 4.827 | Aug 2022 | 5.000 | Aug 2023 | - | | - | | - | Continuing | Continuing | - |
| F-15E Integration & Test Support | SS/ Various | Boeing : St. Louis, MO | - | 1.493 | Dec 2021 | 1.350 | Dec 2022 | 0.750 | Dec 2023 | - | | 0.750 | 0.000 | 3.593 | 49.762 |
| Subtotal | | | - | 29.757 | | 29.527 | | 34.317 | | - | | 34.317 | Continuing | Continuing | N/A |

Remarks
 Engineering Changes and Technical Support: FY2023 to FY2024 increase includes upgrades to SDB II baseline hardware/software to meet emerging threats and to maintain compatibility with external systems. Activities include, but are not limited to, data link cryptographic modernization, program protection, exportability, cyber security, advanced guidance, navigation and control, enhanced lethality, and address obsolescence issues and affordability opportunities.

M-Code Integration: Required to meet 2011 NDAA mandate. Integrate M-Code receiver and required electronics into AUR, test and qualify for production cut-in.

The decrease in F-15E Integration and Test Support in FY23 is due to the biennial weapon OFP update.

| 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 | | | |
| DT&E | PO | 96th Test Wing : Eglin AFB, FL | - | - | | - | | - | | - | | - | 0.000 | 0.000 | 33.725 |
| Targets | Various | Various : Various | - | - | | - | | - | | - | | - | 0.000 | 0.000 | - |
| Other Test Support | Various | Various : Various | - | - | | 1.400 | Mar 2023 | 1.400 | Mar 2024 | - | | 1.400 | 0.000 | 2.800 | 11.896 |
| Subtotal | | | - | - | | 1.400 | | 1.400 | | - | | 1.400 | 0.000 | 2.800 | N/A |

Remarks
 UTTR: Utah Test and Training Range
 WSMR: White Sands Missile Range

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

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| 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 | | | |
| Engineering Professional Administrative Support Services (EPASS) | Various | Various : Eglin AFB, FL | - | 0.750 | Jun 2022 | 0.750 | Jun 2023 | 0.750 | Jun 2024 | - | | 0.750 | 0.000 | 2.250 | 25.508 |
| Program Management Administration (PMA) | Various | Various : Eglin AFB, FL | - | 0.200 | Oct 2021 | 0.347 | Oct 2022 | 0.347 | Oct 2023 | - | | 0.347 | 0.000 | 0.894 | 11.536 |
| DCA Civ Pay | Allot | Allotment : Eglin AFB, FL | - | 0.296 | Oct 2021 | 0.689 | Oct 2022 | 0.704 | Oct 2023 | - | | 0.704 | Continuing | Continuing | - |
| Subtotal | | | - | 1.246 | | 1.786 | | 1.801 | | - | | 1.801 | Continuing | Continuing | N/A |

Remarks
PMA: Other government costs (travel, Government Purchase Card (GPC), equipment supplies, and IT support)

| | 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 | - | 31.003 | 32.713 | 37.518 | - | 37.518 | Continuing | Continuing | N/A |

Remarks
Engineering Changes: FY2023 to FY2024 increase includes upgrades to SDB II baseline hardware/software to meet emerging threats, maintain compatibility with external systems and improve system performance. Activities include, but are not limited to, data link cryptographic modernization, program protection, exportability, cyber security, advanced guidance, navigation and control, enhanced lethality, and address obsolescence issues and affordability opportunities.

FINANCIAL PERFORMANCE: SDB II is evaluated against traditional Research and Development (R&D) program expenditure benchmarks. Unlike many traditional R&D programs, however, the SDB II LRIP contract is a FPIF contract with progress payments. A 5% percent of incurred costs are withheld until the end of the contract, when they are liquidated. Mandatory funding obligations and progress payment withholds will cause the program to lag traditional expenditure benchmarks, painting an inaccurate portrait of overall program health.

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

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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 |

| | FY 2022 | | | | FY 2023 | | | | FY 2024 | | | | FY 2025 | | | | FY 2026 | | | | FY 2027 | | | | FY 2028 | | | |
|--|---------|--|--|--|---------|--|--|--|---------|--|--|--|---------|--|--|--|---------|--|--|--|---------|--|--|--|---------|--|--|--|
| <i>SDB Increment II</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F-15E Integration & Test Support | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M-Code Integration & Testing | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Data Link Crypto Mod Integration & Testing | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integration & Testing on Threshold F-35B/C | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Precision Navigation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lot Integration and Test | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| System Improvement Program | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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| Appropriation/Budget Activity 3600 / 7 | R-1 Program Element (Number/Name) PE 0207327F / <i>Small Diameter Bomb (SDB)</i> | Project (Number/Name) 675191 / <i>SDB Increment II</i> |
|--|--|--|

Schedule Details

| Events by Sub Project | Start | | End | |
|--|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| <i>SDB Increment II</i> | | | | |
| F-15E Integration & Test Support | 2 | 2022 | 4 | 2028 |
| M-Code Integration & Testing | 1 | 2022 | 3 | 2025 |
| Data Link Crypto Mod Integration & Testing | 1 | 2022 | 3 | 2024 |
| Integration & Testing on Threshold F-35B/C | 1 | 2022 | 3 | 2028 |
| Precision Navigation | 1 | 2022 | 1 | 2025 |
| Lot Integration and Test | 1 | 2022 | 4 | 2028 |
| System Improvement Program | 1 | 2022 | 4 | 2028 |