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Jul 09, 2024

Department of Defense
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

Modernized Selected Acquisition Report (MSAR) Small Diameter Bomb Increment II (SDB II)

FY 2025 President's Budget

Effective: December 31, 2023

Defense Acquisition Visibility Environment

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(U) Common DoD Abbreviations

\$B	Billions of Dollars
\$K	Thousands of Dollars
\$M	Millions of Dollars
ACAT	Acquisition Category
Acq O&M	Acquisition-Related Operations and Maintenance
ADM	Acquisition Decision Memorandum
APA	Additional Performance Attribute
APB	Acquisition Program Baseline
APPN	Appropriation
APUC	Average Procurement Unit Cost
BA	Budget Authority or Budget Activity
Blk	Block
BY	Base Year
CAE	Component Acquisition Executive
CAPE	Cost Assessment and Program Evaluation
CARD	Cost Analysis Requirements Description
CCE	Component Cost Estimate
CCP	Component Cost Position
CDD	Capability Development Document
CLIN	Contract Line Item Number
CPD	Capability Production Document
CY	Calendar Year or Constant Year
DAB	Defense Acquisition Board
DAE	Defense Acquisition Executive
DAES	Defense Acquisition Executive Summary
DAVE	Defense Acquisition Visibility Environment
DoD	Department of Defense
DSN	Defense Switched Network
EMD	Engineering and Manufacturing Development
EVM	Earned Value Management
FD	Full Deployment
FDD	Full-Deployment Decision
FMS	Foreign Military Sales
FOC	Full Operational Capability
FRP	Full-Rate Production
FY	Fiscal Year
FYDP	Future Years Defense Program
ICD	Initial Capabilities Document
ICE	Independent Cost Estimate
Inc	Increment
IOC	Initial Operational Capability
IT	Information Technology
JROC	Joint Requirements Oversight Council
KPP	Key Performance Parameter
KSA	Key System Attribute

LRIP	Low-Rate Initial Production
MDA	Milestone Decision Authority
MDAP	Major Defense Acquisition Program
MILCON	Military Construction
N/A	Not Applicable
O	Objective
O&M	Operations and Maintenance
O&S	Operating and Support
ORD	Operational Requirements Document
OSD	Office of the Secretary of Defense
PAUC	Program Acquisition Unit Cost
PB	President's Budget
PE	Program Element
PEO	Program Executive Officer
PM	Program Manager
POE	Program Office Estimate
R&MF	Revolving and Management Funds
RDT&E	Research, Development, Test, and Evaluation
SAR	Selected Acquisition Report
SCP	Service Cost Position
T	Threshold
TBD	To Be Determined
TY	Then Year
U.S.	United States
U.S.C	United States Code
UCR	Unit Cost Reporting
USD(A&S)	Under Secretary of Defense (Acquisition and Sustainment)

(U) Program Description

Full Name Small Diameter Bomb Increment II	Short Name SDB II
PNO 439	Milestone Decision Authority Component Acquisition Executive
Lead Component Department of the Air Force	Program Executive Office Armament Directorate (AFPEO/WP)
Joint Program Yes	Supporting Components Department of the Navy
Adaptive Acquisition Pathway Major Capability Acquisition	International Partners Australia, Belgium, Finland, Germany, Italy, Japan, Netherlands, Norway, Poland, Switzerland, United Kingdom
Acquisition Category IC	Acquisition Type Major Defense Acquisition Program
Acquisition Status Active Acquisition	Acquired Systems SDB II

Mission

Introduction: Small Diameter Bomb Increment II (SDB II) is a joint interest United States Air Force (USAF) and Department of Navy (DoN) ACAT IC program, with the Air Force (AF) as the lead service. SDB II provides the warfighter the capability to attack mobile targets from stand-off, through weather. SDB II will be compatible with the BRU-61 miniature munitions carriage, the CNU-660/E weapon carriage container, the Common Munitions Bit and Reprogramming Equipment (CMBRE), and the Joint Mission Planning System (JMPS). The SDB II will develop and field a single weapon storage container (USAF) and a dual weapon container (DoN).

Mission: SDB II addresses the following warfighter requirements: attack moving and stationary targets, adverse weather operations, multiple kills per pass, 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. **Vision:** To provide the warfighter the capability to attack mobile targets through weather. **Description:** The threshold aircraft for the AF is the F-15E and the threshold aircraft for the DoN are the F-35B and F-35C. Funding for integration of threshold aircraft for F-15E, F-35B, and F-35C is in the SDB II program. Objective aircraft include the F-16, F/A-18E/F, F-22A, F-35A, B-1B, B-2, B-52, A-10, and MQ-9. Funding for objective aircraft is provided by the objective aircraft program. Effective in FY21 RDT&E program efforts were transferred to Program Element (PE) number is 27327F and Budget Program Activity Code (BPAC) 675191; and in FY19 Procurement efforts were transferred to PE 27327F, BPAC 20SDB2. **CONOPS:** SDB II is a key component of Air Force's Global Strike Task Force CONOPS.

(U) Responsible Office**Program Executive Officer**

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(U) Executive Summary

Program Highlights Since Last Report

Introduction

Lot 9 contract awarded on March 23, 2023 for \$323M/1,500 Small Diameter Bomb Increment II (SDB II) All Up Rounds (AURs) 1,122 United States Air Force (USAF) & 378 Department of the Navy (DoN). Additionally, a contract was awarded for Lot 10 SDB IIs on December 29, 2023 valued at \$344.6M (1,250 USAF & 250 DoN AURs). SDB II also declared Early Operational Capability (EOC) by the DoN on the F/A-18E/F with an anticipated IOC in 3rd Quarter FY 2024. Integration efforts on the F-35A/B/C are ongoing and remain a major milestone for the Program Office and joint stakeholders. Lastly, 1,224 AURs from Lot 6 were forward deployed to the warfighter and remain in high demand globally by both U.S. troops and foreign militaries.

Production

Currently, 3,468 production AURs have been delivered (2,199 USAF & 840 DoN). The start of Lot 6 deliveries was delayed to July 2022 due to a COVID-related supplier material shortage which also pushed final deliveries to December 2023. Future Lot deliveries are all affected by the COVID slip. SDB II production was constrained to a minimum sustainment rate in Lots 6-8 by the available budget. Lot 7 was awarded for 1,100 AURs (674 USAF, 226 DoN, & 200 FMS). Lot 8 was awarded for 1,140 AURs (976 USAF & 164 DoN).

Development

The National Security Agency (NSA) certified software in the Tactical Network (TN) 1.1 weapon data link through successful flight testing in August 2023 meeting the NSA-directed Link-16 crypto modernization mandate. Since the start of 3rd Quarter FY 2023 the software delivered with TN 1.1 is being upgraded. TN 1.5 weapon data link development was completed in December 2022, with production delivery on track to support mid-Lot 7 cut-in.

The Program Office completed the Common Architecture for Assured Positioning Navigation and Timing (CAAP) Application-Specific Integrated Circuit (ASIC) lifetime buy in September 2022, procuring 85,140 CAAP ASICs with OSD allotted funding. CAAP ASIC is Raytheon's key component for a Military Code compliant Global Positioning System (GPS) Receiver solution to meet the FY 2011 National Defense Authorization Act (NDAA) Mandate for SDB II, Tactical Tomahawk Land Attack Missile, and other Raytheon weapon systems. The CAAP ASIC is currently undergoing the Security Certification. Currently, it is on schedule to receive this certification by 3rd Quarter FY 2024.

The Program Office successfully completed the Guidance and Control Section Critical Design Review (CDR) in August 2023, and the Selective Availability Anti-Spoofing Module (SAASM) Seeker Section CDR was held in January 2024. The Integrated Engineering Change Proposal (IECP) electronics will help enable wide exportability to F-35 FMS partners.

Progress continues towards demonstrating GPS Denied algorithmic capability. As of December 2023, Raytheon and Scientific Systems Company Inc. are updating algorithms, conducting simulations, and will be ready to perform a Captive Flight Test (CFT) demonstration by 3rd Quarter FY 2024.

Test & Integration

SDB II Developmental Test and Operational Test (DT/OT) program released more than 15 SDB IIs throughout CY 2023. The test program had four major objectives in 2023: Operational Evaluation on the F/A-18E/F, Operational Evaluation on F-35B, Initial Flight Sciences on F-35C, and Operational Evaluation of Crypto Modernized SDB II Operational Flight Program.

Air Combat Command (ACC) declared SDB II IOC in September 2022; however, compliance with the modernized crypto mandate for all Link-16 participants requires an SDB II Operational Flight Plan update. The primary objective for all DT/OT, to include Weapon System Evaluation Program, on the F-15E was evaluating the updated software. The F-15E successfully released nine SDB IIs with the updated software and the fielding recommendation is in staffing at ACC.

SDB II completed five DT/OT F/A-18E/F tests this year, proving SDB II operational capability. The DoN declared EOC on the F/A-18E/F on October 3, 2023.

F-35B DT is complete, but OT has moved to 4th Quarter FY 2024 due to F-35 aircraft version 30P08 software is awaiting a fleet release that has been delayed. The F-35B will be updated with the software once it becomes available. SDB II IOC on the F-35B is expected 1st Quarter FY 2026.

F-35C completed the captive flight and jettison portion of the flight sciences program. The rate capture (or safe store separation) testing is ongoing with an estimated completion date in June 2024. EOC is on target for 2nd Quarter FY 2025 and IOC in 1st Quarter FY 2026.

F-35A completed captive environment flight tests and pit test. All future F-35A tests have been on hold due to higher Joint Strike Fighter Program Office weapon priorities; IOC is still slated on target for 1st Quarter FY 2026.

Defense Cost and Resource Center and Cost and Software Data Reporting Compliance Rating: Green

There are no significant weapon-related software issues with the program at this time; however, the F-35 aircraft version 30P08 software is awaiting a fleet release that is delayed.

(U) History of Significant Developments Since Program Inception

Date	Description
July 2009	JROC approved the SDB II CDD.
August 2010	DAE signed an ADM authorizing the program to enter the EMD phase and certified the program pursuant to section 2366b of Title 10, U.S.C.
October 2010	DAE signed the Milestone B APB.
January 2011	Conducted the CDR. The office of the Deputy Assistant Secretary of Defense for Systems Engineering concluded that the CDR is complete and the SDB II Program is "well situated to continue into the System Capability and Manufacturing Process Demonstration Phase."
July 2012	First Guided Test Vehicle-1 flight test.
November 2014	First Live Fire Test.

Date	Description
December 2014	Test, Analyze, and Fix (TAAF) testing complete, culminating over 18 months of testing that totaled 2,190 hours. TAAF demonstrated a reliability of 253 hours Mean Time Between Failure which surpassed the 250 hour requirement.
January 2015	JROC approved use of SDB II CDD in lieu of CPD for MS C. They also formally added the AC-130 as an objective aircraft.
January 2015	DAE signed the MS C ADM authorizing entrance into LRIP.
April 2015	Systems Verification Review conducted.
June 2015	LRIP Lot 1 option exercised (144 USAF weapons).
September 2015	DAE signed the MS C APB. APB included updated F-15E Required Assets Available (RAA) dates to account to allow sufficient time for the remaining DT/OT.
September 2016	LRIP Lot 2 option exercised (250 USAF weapons).
January 2017	LRIP Lot 3 option exercised (312 USAF weapons).
February 2018	LRIP Lot 4 option exercised (570 USAF & 90 DoN weapons).
May 2018	Completed Developmental Testing, including the 28-shot Government Confidence Testing.
October 2018	Justification and Approval signed for Other than Full and Open Competition for production beyond Lot 5, continuing sustainment and modernization.
November 2018	The first Production Reliability Incentive Demonstration flight test was completed.
November 2018	Lot 5 option exercised (510 USAF & 750 DoN weapons).
January 2019	First FA-18E/F flight test.
April 2019	APB was signed by the Service Acquisition Executive and changed F-15E RAA threshold/objective dates.
May 2019	Completed OT Mission Scenarios.
September 2019	Declared a Significant Nunn-McCurdy breach for unit cost.
September 2019	Completed all OT requirements.
September 2019	Completed OT Cybersecurity Testing.
January 2020	Current APB updated to reflect new cost objectives following Significant Nunn-McCurdy.
January 2020	Declared F-15E RAA.
September 2020	ACC/A5/8/9 authorized the fielding of the GBU-53/B, SDB II on the F-15E Strike Eagle.
October 2020	Lot 6 option exercised (747 USAF, 461 DoN & 20 FMS weapons).
April 2021	Lot 7 exercised (674 USAF, 226 DoN & 200 FMS weapons).
June 2021	Six separations completed on the F-35 for initial F-35B EOC envelope.
October 2021	Initial Lot 8 contract award; quantities constrained by available Continuing Resolution funding.
January 2022	Lot 8 contract awarded (976 USAF & 164 DoN weapons).
January 2022	Program Manager informed the MDA of APB unit cost and schedule deviations. Cost breach occurred after the MDA approved an increase to the procurement quantity from 17,000 (12,000 USAF & 7,500 USN) to 26,610 (21,610 USAF & 5,000 USN) total production weapons in response to Air Force Inventory Objective increase.
January 2022	Declared a Significant Nunn-McCurdy breach for unit cost due to MDA approved Inventory Objective increase.
March 2022	Congress notified of Significant Nunn-McCurdy breaches on March 4, 2022.
April 2022	Awarded the Tech Refresh Technology Maturation and Risk Reduction contract for obsolescence required to meet the new Inventory Objective.

Date	Description
May 2022	MDA approved an updated APB on May 12, 2022, establishing new cost and schedule objectives for the SDB II program. SDB II F-35B/C IOC milestones are now January 2025 (objective) and January 2026 (threshold). FRP milestones are now April 2025 (objective) and April 2026 (threshold).
May 2022	Updated APB (APB Change 3) was signed by the CAE/Principal Deputy Assistant Secretary of the Air Force Acquisition, Technology & Logistics establishing a new cost and schedule baseline.
May 2022	MDA approved an updated APB on May 12, 2022, establishing new cost and schedule objectives for the SDB II program. SDB II F-35 A/B/C IOC milestones are now December 2025 (objective) and January 2026 (threshold). FRP milestones are now April 2025 (objective) and April 2026 (threshold).
September 2022	ACC declared SDB II IOC on the F-15E on September 8, 2022.
September 2022	Completed the CAAP ASIC lifetime buy in September 2022, procuring 85,140 CAAP ASICs within OSD allotted funding.
March 2023	Lot 9 awarded (1,122 USAF & 378 DoN).
August 2023	NSA certified the TN 1.1 weapon data link that was flight tested in August 2023 and met the NSA-directed Link-16 crypto modernization mandate.
October 2023	F/A-18E/F EOC was declared October 3, 2023. SDB IIs have been forward deployed to and are currently being updated to the latest Operational Flight Program release.
December 2023	Lot 10 awarded (1,250 USAF & 250 DoN).

(U) Schedule**(U) Schedule Events**

Events		Production APB (Milestone) 9/23/2015 Objective	APB Change 3 (Current) 5/12/2022 Objective / Threshold		Current Estimate 12/31/2023	Actual
Milestone B Approval	MS B	Aug 2010	Aug 2010	Aug 2010	-	6 Aug 2010
Milestone C Approval	MS C	May 2015	May 2015	May 2015	-	11 May 2015
RAA for SDB II-Threshold Aircraft F-15E	IOC	Jan 2018	Jan 2020	Jan 2020	-	17 Jan 2020
F-35C Initial Fielding	Other	Jan 2022	Jan 2025	Jan 2026	Dec 2025	-
F-35B Initial Fielding	Other	Jan 2022	Jan 2025	Jan 2026	Dec 2025	-
Full Rate Production	FRP Decision	Apr 2022	Apr 2025	Apr 2026	Jan 2026	-

Notes

1. Due to F-35 B/C software delays, initial fielding on these platforms could be delayed. Additionally, limited access to these aircraft has hindered integration testing. If the requirement for F-35 B/C IOC is not relieved, then FRP schedule will be adversely impacted as this is an entrance criteria. CHR(10)2. SDB II RAA was defined as the capability to arm 12 F-15Es with two fully loaded Bomb Rack Unit 61/A carriage systems each for 1.5 sorties. RAA included associated spares, support equipment (including load crew trainers), initial training, mission planning capability, and verified technical orders. CHR(10)3. The first SDB II Navy threshold aircraft unit equipped with SDB II will be an F-35C Joint Strike Fighter squadron. The initial quantity of SDB II weapons required is 90 weapons and 22 carriage systems based upon one ten plane squadron with two fully loaded carriage systems each plus ten spare weapons. Per APB Change 1, April 15, 2019.

Schedule Baseline Deviation Explanation

None

(U) Current Significant Schedule Risks and Risks Identified at Milestones/Decisions

Event	Date	Description
Current	12/31/2023	Risk: Mission Computer (MC) Field Programmable Gate Array (FPGA) Shortage Rationale: Due to a higher-than-expected attrition rate, the lifetime buy is short ~3200 parts. Mitigation: Complete All Up Round (AUR) Robustness & CIL testing.

(U) Performance

(U) Performance Attributes

Net Ready		KPP
Current Estimate 12/31/2023	The SDB II Operational Flight Program (OFP) versions 07.03.07 and 07.11.04 with Tactical Network 1.1 partially fulfills the interoperability requirements of the Joint Staff-certified Net- Ready KPP and approved architecture viewpoints contained in the MS C Information Support Plan (ISP). As of November 2, 2020, Joint Interoperability Test Command certifies SDB II OFP versions 07.03.07 and 07.11.04 with conditions as described in Table 1 of the interoperability certification document. This certification is based on performing all joint critical tasks specified in the MS C ISP. This certification expires upon changes that affect interoperability or no later than 4 years from the date of issuance.	
Demonstrated Performance 12/31/2023	System Integration Lab testing is underway and continues. Live Flight Testing also ongoing to support the Net-Centric requirement. Initial testing during CY 2023 is positive and supports the requirement.	
APB Change 3 (Current)	Objective	I) Support net-centric military operations: A) Mission: Positive weapon control during engagement of mobile (moving and stationary) targets enabled by digital communications as planned and/or event-driven. 1) Measure: Receipt of weapon control directives = less than or equal to 12 seconds (Link 16), Transmission of situation awareness messages = less than or equal to 30 seconds UHF. 2) Conditions: Secure and available communications (DoD Chief Information Officer net-centric attribute). B) Mission Activities: Enable target acquisition; Target tracking. 1) Measure: Link 16 Target location accuracy** = 60 meters TLE90 and UHF** = 100 meters TLE90. 2) Conditions: SWE and WE conditions. II) Enter and be managed in the network: A) Link 16 tactical data link network. 1) Measure: Time to fine synchronization = less than or equal to 60 seconds; Terminal performance = 99% availability; Messaging = MER of less than or equal to 1%. 2) Conditions: Operational network; Type 1 encryption; Spectrum availability. B) Line-of-sight UHF tactical data link network. 1) Measure: Time to fine synchronization = less than or equal to 60 seconds; Terminal Performance = 99% availability; Messaging = MER less than or equal to 1%. 2) Conditions: Operational network; Type 1 encryption; spectrum availability. III) Exchange Information: A) Link 16 weapon control: 1) Measure: Periodicity*** = less than or equal to 12 seconds; Timeliness**** = less than or equal to 3 seconds; Throughput***** = 53.76 kilobits per second; Size***** = 0.56 kilobits. 2) Conditions: Operational network; Type I encryption; Required spectrum is available. B) UHF weapon control JTAC2: 1) Measure: Periodicity***** = less than or equal to 30 seconds; Timeliness***** = less than or equal to 6 seconds;

		<p>Throughput***** = 16 kilobits per second; Size***** = 1.12 kilobits. 2) Conditions: Operational network; Type I encryption; Required spectrum is available. C) Link 16 precise participant location and identification TDL 1: 1) Measure: Periodicity***** = less than or equal to 12 seconds; Timeliness***** = less than or equal to 3 seconds; Throughput***** = 53.76 kilobits per second; Size***** = 0.315 kilobits. 2) Conditions: Operational network; Type I encryption; Required spectrum is available.</p>
<p>5/12/2022</p>	<p>Threshold</p>	<p>(T=0) I) Support net-centric military operations: A) Mission: Positive weapon control during engagement of mobile (moving and stationary) targets enabled by digital communications as planned and/or event-driven. 1) Measure: Receipt of weapon control directives = less than or equal to 12 seconds (Link 16), Transmission of situation awareness messages = less than or equal to 30 seconds UHF. 2) Conditions: Secure and available communications (DoD Chief Information Officer net-centric attribute). B) Mission Activities: Enable target acquisition; Target tracking. 1) Measure: Link 16 Target location accuracy** = 60 meters TLE90 and UHF** = 100 meters TLE90. 2) Conditions: SWE and WE conditions. II) Enter and be managed in the network: A) Link 16 tactical data link network. 1) Measure: Time to fine synchronization = less than or equal to 60 seconds; Terminal performance = 99% availability; Messaging = MER of less than or equal to 1%. 2) Conditions: Operational network; Type 1 encryption; Spectrum availability. B) Line-of-sight UHF tactical data link network. 1) Measure: Time to fine synchronization = less than or equal to 60 seconds; Terminal Performance = 99% availability; Messaging = MER less than or equal to 1%. 2) Conditions: Operational network; Type 1 encryption; spectrum availability. III) Exchange Information: A) Link 16 weapon control: 1) Measure: Periodicity*** = less than or equal to 12 seconds; Timeliness*** = less than or equal to 3 seconds; Throughput***** = 53.76 kilobits per second; Size***** = 0.56 kilobits. 2) Conditions: Operational network; Type I encryption; Required spectrum is available. B) UHF weapon control JTAC2: 1) Measure: Periodicity***** = less than or equal to 30 seconds; Timeliness***** = less than or equal to 6 seconds; Throughput***** = 16 kilobits per second; Size***** = 1.12 kilobits. 2) Conditions: Operational network; Type I encryption; Required spectrum is available. C) Link 16 precise participant location and identification (TDL 1): 1) Measure: Periodicity***** = less than or equal to 12 seconds; Timeliness***** = less than or equal to 3 seconds; Throughput***** = 53.76 kilobits per second; Size***** = 0.315 kilobits. 2) Conditions: Operational network; Type I encryption; Required spectrum is available.</p>
<p>Production APB (Milestone) 9/23/2015</p>	<p>Objective</p>	<p>I) Support net-centric military operations: A) Mission: Positive weapon control during engagement of mobile (moving and stationary) targets enabled by digital communications as planned and/or event-driven. 1)</p>

		<p>Measure: Receipt of weapon control directives = less than or equal to 12 seconds (Link 16); Transmission of situation awareness messages = less than or equal to 30 seconds UHF. 2) Conditions: Secure and available communications (DoD Chief Information Officer net-centric attribute). B) Mission Activities: Enable target acquisition; Target tracking. 1) Measure: Link 16 Target location accuracy** = 60 meters TLE90 and UHF** = 100 meters TLE90. 2) Conditions: SWE and WE conditions. II) Enter and be managed in the network: A) Link 16 tactical data link network. 1) Measure: Time to fine synchronization = less than or equal to 60 seconds; Terminal performance = 99% availability; Messaging = MER of less than or equal to 1%. 2) Conditions: Operational network; Type 1 encryption; Spectrum availability. B) Line-of-sight UHF tactical data link network. 1) Measure: Time to fine synchronization = less than or equal to 60 seconds; Terminal Performance = 99% availability; Messaging = MER less than or equal to 1%. 2) Conditions: Operational network; Type 1 encryption; spectrum availability. III) Exchange Information: A) Link 16 weapon control: 1) Measure: Periodicity*** = less than or equal to 12 seconds; Timeliness**** = less than or equal to 3 seconds; Throughput***** = 53.76 kilobits per second; Size***** = 0.56 kilobits. 2) Conditions: Operational network; Type I encryption; Required spectrum is available. B) UHF weapon control JTAC2: 1) Measure: Periodicity***** = less than or equal to 30 seconds; Timeliness***** = less than or equal to 6 seconds; Throughput***** = 16 kilobits per second; Size***** = 1.12 kilobits. 2) Conditions: Operational network; Type I encryption; Required spectrum is available. C) Link 16 precise participant location and identification TDL 1: 1) Measure: Periodicity***** = less than or equal to 12 seconds; Timeliness***** = less than or equal to 3 seconds; Throughput***** = 53.76 kilobits per second; Size***** = 0.315 kilobits. 2) Conditions: Operational network; Type I encryption; Required spectrum is available.</p>
Weapon Loadout		KPP
<p>Current Estimate 12/31/2023</p>	<p>Performance has been demonstrated.</p>	
<p>Demonstrated Performance 12/31/2023</p>	<p>Numerous compatibility tests have been conducted both in labs and on the flight line. The BRU- 61/A load handlers have experienced issues with consistency. Program Office is working with both Boeing and Raytheon to resolve the issue.</p>	
<p>APB Change 3 (Current) 5/12/2022</p>	<p>Objective</p>	<p>Four SDB II weapons integrated onto the BRU-61/A. Aircraft will be able to carry and employ both SDB I and II weapons loaded on separate BRU-61/As during the same mission.</p>
	<p>Threshold</p>	<p>(T=0) Four SDB II weapons integrated onto the BRU-61/A. Aircraft will be able to carry and employ both SDB I and II weapons loaded on separate BRU-61/As during the same mission.</p>

Production APB (Milestone) 9/23/2015	Objective	Four SDB II weapons integrated onto the BRU-61/A. Aircraft will be able to carry and employ both SDB I and II weapons loaded on separate BRU-61/As during the same mission.
Weapon Effectiveness		KSA
Current Estimate 12/31/2023		DOT&E assessed SDB II OT performance has not achieved a minimum PSSK of (T-3) for each target type (Table 6-1 of CDD for SDB II dated July 28, 2009) because the demonstrated Probability of Target Engagement given a Release (Pe/r) was significantly lower than predicted by Modeling and Simulation of each environment/threat condition case listed in Appendix F of CDD for SDB II dated July 28, 2009. The Program Office has evaluated the weapon engagement failures and is pursuing algorithm improvements to mitigate. The Program Office implemented an updated OFP (July 12, 2023) correcting numerous OT issues and is working on future OFP updates to correct additional deficiencies. The JROC reviewed the CDD in lieu of the CPD on November 18, 2014, the JROC subsequently signed the memorandum on January 13, 2015.
Demonstrated Performance 12/31/2023		Current OT testing is underway on multiple platforms to support a minimum PSSK of (T-3) for each target type (Table 6-1 of CDD for SDB II dated July 28, 2009) because the demonstrated Probability of Target Engagement given a Release (Pe/r) was significantly lower than predicted by Modeling and Simulation of each environment/threat condition case listed in Appendix F of CDD for SDB II dated July 28, 2009.
APB Change 3 (Current) 5/12/2022	Objective	Given meeting the threshold of WE the SDB II will achieve a minimum PSSK of (O-3), when averaged over various environmental/threat condition cases listed in Appendix F of CDD for SDB II dated July 28, 2009. The JROC reviewed the CDD in lieu of the CPD on November 18, 2014, the JROC subsequently signed the memorandum on January 13, 2015.
	Threshold	SDB II will achieve a minimum PSSK of (T-3) for each target type (Table 6-1 of CDD for SDB II dated July 28, 2009) in each environmental/threat condition case listed in Appendix F of CDD for SDB II dated July 28, 2009. The JROC reviewed the CDD in lieu of the CPD on November 18, 2014, the JROC subsequently signed the memorandum on January 13, 2015.
Production APB (Milestone) 9/23/2015	Objective	Given meeting the threshold of WE the SDB II will achieve a minimum PSSK of (O-3), when averaged over various environmental/threat condition cases listed in Appendix F of CDD for SDB II dated July 28, 2009. The JROC reviewed the CDD in lieu of the CPD on November 18, 2014, the JROC subsequently signed the memorandum on January 13, 2015.
Carrier Operability (Navy Unique Requirement)		KPP
Current Estimate 12/31/2023		Demonstrated performance data will be displayed when SDB II completes F-35C OT, Air Force Operational Test and Evaluation Center provides the final report and analysis is completed.

Demonstrated Performance 12/31/2023		Current testing has been scheduled and is underway.
APB Change 3 (Current) 5/12/2022	Objective	SDB II will be compatible with carrier operations without degrading other naval operations. Compatibility includes being capable of at least fifty catapult launches and forty-nine arrested landings; able to be transported, handled, stored, prepared, uploaded, and downloaded; and capable of operating in EMI, EMC, container immersion/ washdown, salt fog/salt spray, explosive atmosphere, mechanical shock (i.e., near-miss, catapult launches/ arrested landings, and handling shock), acoustic noise, vibration, fluid contamination, corrosive atmosphere, fungus, humidity, ice, and rain environments of aircraft carrier and replenishment ship operations.
	Threshold	(T=0) SDB II will be compatible with carrier operations without degrading other naval operations. Compatibility includes being capable of at least fifty catapult launches and forty-nine arrested landings; able to be transported, handled, stored, prepared, uploaded, and downloaded; and capable of operating in EMI, EMC, container immersion/ washdown, salt fog/salt spray, explosive atmosphere, mechanical shock (i.e., near-miss, catapult launches/ arrested landings, and handling shock), acoustic noise, vibration, fluid contamination, corrosive atmosphere, fungus, humidity, ice, and rain environments of aircraft carrier and replenishment ship operations.
Production APB (Milestone) 9/23/2015	Objective	SDB II will be compatible with carrier operations without degrading other naval operations. Compatibility includes being capable of at least fifty catapult launches and forty-nine arrested landings; able to be transported, handled, stored, prepared, uploaded, and downloaded; and capable of operating in EMI, EMC, container immersion/ washdown, salt fog/salt spray, explosive atmosphere, mechanical shock (i.e., near-miss, catapult launches/ arrested landings, and handling shock), acoustic noise, vibration, fluid contamination, corrosive atmosphere, fungus, humidity, ice, and rain environments of aircraft carrier and replenishment ship operations.
Scenario Weapon Effectiveness		KPP
Current Estimate 12/31/2023		Given SDB II weapon delivery from a threshold aircraft employing self targeting or a threshold aircraft delivering SDB II with third party targeting via a JTAC, the SDB II weapon will achieve a minimum PSSK of (T-1) when averaged over all the target types contained in Table 6-1 of CDD for SDB II dated July 28, 2009.
Demonstrated Performance -		TBD
APB Change 3 (Current)	Objective	Given SDB II weapon delivery from an objective platform employing self targeting or an SDB II weapon delivery from a threshold or objective aircraft with third party targeting via an objective airborne platform (Paragraph 6.2.3.1.2 of CDD for SDB II dated July 28, 2009), the SDB II weapon will achieve a minimum PSSK of (OB-1) when averaged over all the target types contained in Table 6-1 of CDD for SDB II dated July 28, 2009. The Joint JROC

5/12/2022		reviewed the CDD in lieu of the CPD on November 18, 2014; the JROC subsequently signed the memorandum on January 13, 2015.
	Threshold	Given SDB II weapon delivery from a threshold aircraft employing self targeting or a threshold aircraft delivering SDB II with third party targeting via a JTAC, the SDB II weapon will achieve a minimum PSSK of (T-1) when averaged over all the target types contained in Table 6-1 of CDD for SDB II dated July 28, 2009. The JROC reviewed the CDD in lieu of the CPD on November 18, 2014; the JROC subsequently signed the memorandum on January 13, 2015.
Production APB (Milestone) 9/23/2015	Objective	Given SDB II weapon delivery from an objective platform employing self targeting or an SDB II weapon delivery from a threshold or objective aircraft with third party targeting via an objective airborne platform (Paragraph 6.2.3.1.2 of CDD for SDB II dated July 28, 2009), the SDB II weapon will achieve a minimum PSSK of (OB-1) when averaged over all the target types contained in Table 6-1 of CDD for SDB II dated July 28, 2009. The Joint JROC reviewed the CDD in lieu of the CPD on November 18, 2014; the JROC subsequently signed the memorandum on January 13, 2015.
Materiel Availability		KPP
Current Estimate 12/31/2023		99.6% availability with 3,039 weapons in inventory (2,199 USAF & 840 DoN).
Demonstrated Performance 12/31/2023		Although no SDB II AURs have been fielded at austere locations, they have been positioned internationally and at weapon depots. Availability will be updated after fielding and non-warranty repairs begin to apply. SDB II has achieved a 99.6% availability with over 3,000+ weapons in current inventory both internationally and within the Continental U.S. Additional Reliability, Availability, and Maintainability testing is underway to support projections that SDB II will achieve a 0.9 Availability requirement.
APB Change 3 (Current) 5/12/2022	Objective	Once 3,000 SDB II weapons are in the inventory, the Materiel Availability for SDB II will be no less than .95.
	Threshold	The Materiel Availability for SDB II will follow this graduated scale: Greater than 500 weapons in inventory - no less than .75 Greater than 1,000 weapons in inventory - no less than .80 Greater than 3,000 weapons in inventory - no less than .90.
Production APB (Milestone) 9/23/2015	Objective	Once 3,000 SDB II weapons are in the inventory, the Materiel Availability for SDB II will be no less than .95.

(U) Requirement Source:

Sponsor(s): United States Air Force

1. Capability Development Document, *Capability Development Document in lieu of Capability Production Document for Small Diameter Bomb II*

Validated By: Joint Requirements Oversight Council, January 13, 2015

Notes

None

Performance Deviation Explanation

None

(U) Acquisition Budget Estimate

(U) Total Acquisition Estimates and Quantities

Category (\$M) Base Year: 2015	Production APB (Milestone) 9/23/2015 CY\$ obs Objective	APB Change 3 (Current) 5/12/2022 CY\$ obs Objective / Threshold		Current Estimate PB 2025 CY\$ obs / TY\$ obs	
		RDT&E	1,678.1	2,153.3	2,368.6
Procurement	2,376.8	5,636.2	6,199.8	4,898.5	7,087.3
MILCON	0.0	-	-	-	-
O&M	0.0	-	-	-	-
Total Acquisition	4,054.9	7,789.5	-	6,977.4	9,323.8
Program Acquisition Unit Cost	0.236	0.291	0.320	0.261	0.348
Average Procurement Unit Cost	0.140	0.212	0.233	0.184	0.266
Program End-Item Quantity					
Development	163	163		163	
Procurement	17000	26610		26610	
O&M-Acquired	-	-		0	

Budget Notes

None

Quantity Notes

None

Cost Baseline Deviation Explanation

None

(U) Risk and Sensitivity Analysis

Current Procurement Estimate Risks (12/31/2023)	
1	Risk: Mission Computer (MC) Field Programmable Gate Array (FPGA) Shortage Rationale: Due to a higher-than-expected attrition rate, the lifetime buy is short ~3200 parts. Mitigation: Complete All Up Round (AUR) Robustness & CIL testing.
Current Baseline Risks (5/12/2022)	
N/A	
Original Baseline Risks (10/8/2010)	
USD AT&L directed the SDB II Program to be funded to the Joint Service Cost Position estimate. The cost risk is the difference in the cost estimates and resource requirements, which total approximately TY \$181M.	

(U) Unit Costs

(U) Current Estimate Compared with Current Baseline

Category (CY\$M) Base Year: 2015	Current Baseline 05/12/2022	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	7,789.5	6,977.4	
Program Quantity	26,773	26,773	
PAUC	0.291	0.261	-10.43%
Average Procurement Unit Cost			
Procurement Cost	5,636.2	4,898.5	
Procurement Quantity	26,610	26,610	
APUC	0.212	0.184	-13.09%

(U) Current Estimate Compared with Original Baseline

Category (CY\$M) Base Year: 2010	Original Baseline 10/08/2010	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	4,577.5	6,451.4	
Program Quantity	17,163	26,773	
PAUC	0.267	0.241	-9.75%
Average Procurement Unit Cost			
Procurement Cost	2,976.3	4,529.3	
Procurement Quantity	17,000	26,610	
APUC	0.175	0.170	-2.74%

The Current Estimate's constant-year dollars have been converted from Base Year 2015 to Base Year 2010 using the National Defense Budget Estimates for FY 2024 (Green Book).

(U) Cost Growth Details

Impacts of Schedule Changes on Unit Cost

Not Applicable.

Impacts of Performance Changes on Unit Cost

Not Applicable.

Actions taken or Proposed to Control Future Cost Growth

Not Applicable.

Status of Each Major Contract and Significant Factors Contributing to Cost and Schedule Variance; Projected Effects on Future Program Costs

See Contracts section.

Notes

None

(U) Life-Cycle Costs

(U) Operating and Support and Disposal Cost Estimates Compared with Baseline

Category (\$M) Base Year: 2015	Production APB (Milestone) 9/23/2015 CY\$ obs Objective	APB Change 3 (Current) 5/12/2022 CY\$ obs Objective / Threshold		Current Estimate CY\$ obs / TY\$ obs	
Total O&S	897.5	1,029.3	1,132.2	933.0	1,717.2
Total Disposal	-	-	-	-	-

(U) Current Cost Estimate Sources

Operating and Support Cost

Type: Program Office Estimate

Approved by: Program Manager, January 09, 2024

Disposal/Demilitarization Cost

Type: Program Office Estimate

Approved by: Program Manager, January 09, 2024

Operating and Support Baseline Deviation Explanation

None

Cost Notes

Sustainment Strategy

Weapon has 20-year service life. O&S Estimate starts FY 2017 and ends FY 2061 (United States Air Force (USAF)), FY 2054 Department of the Navy (DoN)). Warranty included for Lots 1-5, and Lots 6-24 do not include a warranty. Contractor Logistics Support starting in FY 2024.

O&S and Disposal Cost Sources: For Programs with an O&S Cost estimate or Disposal Cost estimate the O&S Cost Source and Disposal Cost Source listed in the MSAR are inaccurate due to a system limitation. See MSAR Supplement for corrected source(s).

(U) Operating and Support Variance with Prior Estimate

(CY\$M) Base Year: 2015	Estimate	
Prior Estimate (12/31/2022)	928.2	
Current Estimate	933.0	
Category		
	Variance	Explanation
Unit-Level Manpower	-1.7	Updated to the FY 2023 OSD inflation indices.

(CY\$M) Base Year: 2015	Estimate	
Unit Operations	0.0	
Maintenance	7.0	Updated to the FY 2023 OSD inflation indices.
Sustaining Support	10.1	Updated to the FY 2023 OSD inflation indices.
Continuing System Improvements	-4.9	Updated to the FY 2023 OSD inflation indices.
Other	-5.7	Updated to the FY 2023 OSD inflation indices.
Not Categorized	0.0	

(U) Operating and Support Cost Element Structure Estimates by Acquired System

(CY\$M) Base Year: 2015							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
SDB II	47.9	0.0	212.8	462.0	133.9	76.4	933.0
Program	47.9	0.0	212.8	462.0	133.9	76.4	933.0

(U) Annual Operating and Support Costs per Unit Compared with Antecedent System

(CY\$M) Base Year: 2015							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
SDB II	47.9	0.0	212.8	462.0	133.9	76.4	933.0

(U) Operating and Support Cost Estimate Assumptions

System	Quantity to Sustain	Unit Expected Service Life (Years)	Unit of Measure	Fiscal Years Operational
SDB II	26,610	20.0	Bomb	2017 - 2061

Additional O&S Estimate Assumptions

Adjusted Delivery Profile for current Inventory Objective (IO): Air Force extended to FY 2038 to account for USAF IO weapon quantity: 21,610; DoN Extended to FY 2031 for re-phased quantity profile: 5,000.

Antecedent Estimate Assumptions

There is no Antecedent Program identified.

O&S Annual Cost Calculation Memo

Sustaining Engineering, Maintaining Tech Orders, Software Updates, and Repairs cost are based on analogy to SDB I cost.

(U) Technologies and Systems Engineering

(U) Current Significant Technical Risks and Risks Identified at Milestones/Decisions

Event	Date	Description
Current	12/31/2023	<p>Risk: SDB II Munitions Application Program (MAP) Continued Compatibility with Bomb Rack Unit (BRU) -61 Series Launchers</p> <p>Rationale: Boeing develops software (SW) for BRU launcher. SDB II MAP currently includes abbreviated BRU-61 test functionality. SDB II is not included in BRU-61 SW development/integration testing.</p> <p>Mitigation: Establish contract method with SDB I/BRU-61 Program Office.</p>
Current	12/31/2023	<p>Risk: Control Actuation System (CAS) Gas Generator Boron Material Obsolescence</p> <p>Rationale: Current high purity Boron source used in the CAS Gas Generator is no longer available. An alternate high purity Boron material has been identified and is being tested.</p> <p>Mitigation: Place Lifetime Buy (10,000) for Gas Generators from Pacific Scientific Energetic Materials Company.</p>

(U) Performing Activities and Contracts

(U) External Government Activities

None

(U) Contracts and Efforts

Contract Title	Contract Number / Effort	Contractor	Phase
iECP	FA867217D0004	RAYTHEON COMPANY	Development
SDB II Lot 10	FA868123CB001	RAYTHEON COMPANY	Production
SDB II Lot 4	FA867218C0010	RAYTHEON COMPANY	Production
SDB II Lot 5	FA867219C0010	RAYTHEON COMPANY	Production
SDB II Lot 6	FA867220C0005	RAYTHEON COMPANY	Production
SDB II Lot 7	FA867221C0005	RAYTHEON COMPANY	Production
SDB II Lot 8	FA867221C0005	RAYTHEON COMPANY	Production
SDB II Lot 9	FA868123CB001	RAYTHEON COMPANY	Production

(U) Contract and Effort Identification, Price, Quantity and Performance

Contract Number:	FA867217D0004	Order Number:	-
Contract Title:	iECP	Strategy:	FAR 16.5: Indefinite Delivery Indefinite Quantity
CAGE:	15090 - RAYTHEON COMPANY	Contracting Office:	AFLCMC/EBDM - Small Diameter Bomb II
City, State/Province:	TUCSON, AZ		
Effort Number:	-	Supported Phase:	Development
Type:	Multiple Types	Award Date:	August 23, 2017
Latest Modification Date:	-	Definitization Date:	August 23, 2017
Latest Modification No.:	P00017	Work Start Date:	August 23, 2017
Technical Data Rights:	-		
Notes:	Integrated Engineering Change Proposal for Cryptographic Modernization, Military Code, Electronics Obsolescence, Affordability Cost Reduction, System Security Refresh, Cyber Security updates.		

Target Price Change Explanation

The Initial Award was the first Delivery Order. The Modifications were additional Delivery Orders awarded and Overrun modifications on both Delivery Order 1 and Delivery Order 2.

Initial Price (TY\$M) Target / Ceiling	Current Price (TY\$M) Target / Ceiling	Estimate at Completion (TY\$M) Contractor / PM	Initial Quantity	Current Quantity	Delivered Quantity
199.0 450.0	519.0 700.0	532.2 700.0	-	-	-

Work Completed (%): 64.81%
 Cost Variance (TY\$M): -136.4
 Schedule Variance (TY\$M): -7.9

Factors Contributing to Cost Variance and Projected Effects on Program Costs

The unfavorable Cost Variance is due to the contractor overruns on DO 1 due to a Government delay in schedule. The contractor had an overrun on DO 2 due to a contractor delay with subcontractor issues.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

The unfavorable Schedule Variance is due to DO 1 Government scheduled delay. DO 2 is a contractor delay due to subcontractor issues.

(U) Contract and Effort Identification, Price, Quantity and Performance

Contract Number: FA868123CB001 **Order Number:** -
Contract Title: SDB II Lot 10 **Strategy:** FAR 15: Negotiated Contracts
CAGE: 15090 - RAYTHEON COMPANY **Contracting Office:** AFLCMC/EBD - Direct Attack Division
City, State/Province: TUCSON, AZ

Effort Number: - **Supported Phase:** Production
Type: Fixed-Price Incentive (Firm Target) **Award Date:** December 29, 2023
Latest Modification Date: - **Definitization Date:** December 29, 2023
Latest Modification No.: P00004 **Work Start Date:** March 23, 2023
Technical Data Rights: -
Notes: Some of this Program's Contract data contains Controlled Unclassified Information (CUI) data and has been removed per the Implementation Plan for the DoD's Modernized Selected Acquisition Report (MSAR) Process, dated June 2023, which required the MSAR be submitted without any designation relation to dissemination control.

Target Price Change Explanation
 No change in Price.

General Variance Explanation
 General Variance reporting is not required on this FFP type contract.

Initial Price (TY\$M)		Current Price (TY\$M)		Estimate at Completion (TY\$M)		Initial	Current	Delivered
Target / Ceiling		Target / Ceiling		Contractor / PM		Quantity	Quantity	Quantity
343.4	358.3	343.4	358.3	-	358.3	1,500	1,500	-

Work Completed (%): -
 Cost Variance (TY\$M): -
 Schedule Variance (TY\$M): -

Factors Contributing to Cost Variance and Projected Effects on Program Costs

Cost Variance reporting is not required on this FFP type contract.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

Schedule Variance reporting is not required on this FFP type contract.

(U) Contract and Effort Identification, Price, Quantity and Performance

Contract Number:	FA867218C0010	Order Number:	-
Contract Title:	SDB II Lot 4	Strategy:	FAR 15: Negotiated Contracts
CAGE:	15090 - RAYTHEON COMPANY	Contracting Office:	AFLCMC/EBD - Direct Attack Division
City, State/Province:	TUCSON, AZ		
Effort Number:	-	Supported Phase:	Production
Type:	Firm-Fixed-Price	Award Date:	February 27, 2018
Latest Modification Date:	-	Definitization Date:	February 27, 2018
Latest Modification No.:	P00018	Work Start Date:	February 27, 2018
Technical Data Rights:	-		

Notes: Some of this Program's Contract data contains Controlled Unclassified Information (CUI) data and has been removed per the Implementation Plan for the DoD's Modernized Selected Acquisition Report (MSAR) Process, dated June 2023, which required the MSAR be submitted without any designation relation to dissemination control.

Target Price Change Explanation

The difference between the Initial Target Price and the Current Target Price is due to a quantity increase from initial award by 90 units.

General Variance Explanation

General Variance reporting is not required on this FFP type contract.

Initial Price (TY\$M) Target / Ceiling	Current Price (TY\$M) Target / Ceiling	Estimate at Completion (TY\$M) Contractor / PM	Initial Quantity	Current Quantity	Delivered Quantity
77.4 -	87.8 -	- 87.8	570	660	660

Work Completed (%): -
Cost Variance (TY\$M): -
Schedule Variance (TY\$M): -

Factors Contributing to Cost Variance and Projected Effects on Program Costs

Cost Variance reporting is not required on this FFP type contract.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

Schedule Variance reporting is not required on this FFP type contract.

(U) Contract and Effort Identification, Price, Quantity and Performance

Contract Number:	FA867219C0010	Order Number:	-
Contract Title:	SDB II Lot 5	Strategy:	FAR 15: Negotiated Contracts
CAGE:	15090 - RAYTHEON COMPANY	Contracting Office:	AFLCMC/EBDM - Small Diameter Bomb II

City, State/Province: TUCSON, AZ

Effort Number:	-	Supported Phase:	Production
Type:	Firm-Fixed-Price	Award Date:	December 18, 2018
Latest Modification Date:	-	Definitization Date:	December 18, 2018
Latest Modification No.:	P00014	Work Start Date:	December 18, 2018
Technical Data Rights:	-		

Notes: Some of this Program's Contract data contains Controlled Unclassified Information (CUI) data and has been removed per the Implementation Plan for the DoD's Modernized Selected Acquisition Report (MSAR) Process, dated June 2023, which required the MSAR be submitted without any designation relation to dissemination control.

Target Price Change Explanation
No Change in Price.

General Variance Explanation
Cost and Schedule Variance reporting is not required on this FPIF contract because an Earned Value Management System (EVMS) waiver was granted by the Principal Deputy Assistant Secretary of the Air Force for Acquisition on December 19, 2017, due to utilizing a firm fixed-price incentive (fixed target) contract type, in an effort to conform to the Better Buying Power initiative.

Initial Price (TY\$M) Target / Ceiling	Current Price (TY\$M) Target / Ceiling	Estimate at Completion (TY\$M) Contractor / PM	Initial Quantity	Current Quantity	Delivered Quantity
141.6 -	141.6 -	- 141.6	1,260	1,260	1,260

Work Completed (%): -
Cost Variance (TY\$M): -
Schedule Variance (TY\$M): -

Factors Contributing to Cost Variance and Projected Effects on Program Costs
Cost Variance reporting is not required on this contract.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule
Schedule Variance reporting is not required on this contract.

(U) Contract and Effort Identification, Price, Quantity and Performance

Contract Number:	FA867220C0005	Order Number:	-
Contract Title:	SDB II Lot 6	Strategy:	FAR 15: Negotiated Contracts
CAGE:	15090 - RAYTHEON COMPANY	Contracting Office:	AFLCMC/EBDM - Small Diameter Bomb II
City, State/Province:	TUCSON, AZ		
Effort Number:	-	Supported Phase:	Production
Type:	Fixed-Price Incentive (Firm Target)	Award Date:	October 15, 2020

Latest Modification Date: - Definitization Date: October 15, 2020
 Latest Modification No.: P00012 Work Start Date: April 28, 2020
 Technical Data Rights: -

Notes: Some of this Program's Contract data contains Controlled Unclassified Information (CUI) data and has been removed per the Implementation Plan for the DoD's Modernized Selected Acquisition Report (MSAR) Process, dated June 2023, which required the MSAR be submitted without any designation relation to dissemination control.

Target Price Change Explanation

The difference between the Initial Target Price and Current Target Price is due to additional AURs being added during the Period of Performance.

General Variance Explanation

The Program obtained an EVMS waiver for Lot 6 and 7, from the Service Acquisition Executive (SAE) on February 24, 2020, and therefore no EVMS reporting is required by the Contractor or Subcontractor. To provide insight into cost, schedule, and performance, the Contractor will submit quarterly Contract Funds Status Reports (CFSR) and Cost and Software Data Reports (CSDR).

Initial Price (TY\$M) Target / Ceiling		Current Price (TY\$M) Target / Ceiling		Estimate at Completion (TY\$M) Contractor / PM		Initial Quantity	Current Quantity	Delivered Quantity
271.9	279.1	273.9	281.1	-	281.1	1,228	1,228	1,228

Work Completed (%): -
 Cost Variance (TY\$M): -
 Schedule Variance (TY\$M): -

Factors Contributing to Cost Variance and Projected Effects on Program Costs

Cost Variance reporting is not required on this contract.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

Schedule Variance reporting is not required on this contract.

(U) Contract and Effort Identification, Price, Quantity and Performance

Contract Number:	FA867221C0005	Order Number:	-
Contract Title:	SDB II Lot 7	Strategy:	FAR 15: Negotiated Contracts
CAGE:	15090 - RAYTHEON COMPANY	Contracting Office:	AFLCMC/EBDM - Small Diameter Bomb II
City, State/Province:	TUCSON, AZ		
Effort Number:	-	Supported Phase:	Production
Type:	Fixed-Price Incentive (Firm Target)	Award Date:	April 29, 2021
Latest Modification Date:	-	Definitization Date:	April 29, 2021
Latest Modification No.:	P00006	Work Start Date:	April 29, 2021
Technical Data Rights:	-		

Notes: Some of this Program's Contract data contains Controlled Unclassified Information (CUI) data and has been removed per the Implementation Plan for the DoD's Modernized Selected Acquisition Report (MSAR) Process, dated June 2023, which required the MSAR be submitted without any designation relation to dissemination control.

Target Price Change Explanation

No Change in Price.

General Variance Explanation

The Program obtained an EVMS waiver for Lot 6 and 7, from the SAE on February 24, 2020, and therefore no EVMS reporting is required by the Contractor or Subcontractor. To provide insight into cost, schedule, and performance, the Contractor will submit quarterly CFSR and CSDR.

Initial Price (TY\$M) Target / Ceiling		Current Price (TY\$M) Target / Ceiling		Estimate at Completion (TY\$M) Contractor / PM		Initial Quantity	Current Quantity	Delivered Quantity
212.7	221.2	212.7	221.2	-	221.2	1,100	1,100	-

Work Completed (%): -
 Cost Variance (TY\$M): -
 Schedule Variance (TY\$M): -

Factors Contributing to Cost Variance and Projected Effects on Program Costs

Cost Variance reporting is not required on this contract.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

Schedule Variance reporting is not required on this contract.

(U) Contract and Effort Identification, Price, Quantity and Performance

Contract Number:	FA867221C0005	Order Number:	-
Contract Title:	SDB II Lot 8	Strategy:	FAR 15: Negotiated Contracts
CAGE:	15090 - RAYTHEON COMPANY	Contracting Office:	AFLCMC/EBDM - Small Diameter Bomb II
City, State/Province:	TUCSON, AZ		
Effort Number:	-	Supported Phase:	Production
Type:	Fixed-Price Incentive (Firm Target)	Award Date:	October 28, 2021
Latest Modification Date:	-	Definitization Date:	October 28, 2021
Latest Modification No.:	P00005	Work Start Date:	October 28, 2021
Technical Data Rights:	-		

Notes: Some of this Program's Contract data contains Controlled Unclassified Information (CUI) data and has been removed per the Implementation Plan for the DoD's Modernized Selected Acquisition Report (MSAR) Process, dated June 2023, which required the MSAR be submitted without any designation relation to dissemination control.

Target Price Change Explanation

The difference between the Initial Target Price and the Current Target Price is due to an Increase in quantity by 649 units.

General Variance Explanation

Lot 8 FPIF contract fully executed on January 24, 2022, for 1,140 weapons (976 USAF/164 USN), 976 single weapon containers, and 82 dual weapon containers. Work to be complete by January 31, 2025 (USAF), and February 28, 2025 (USN). The Program obtained an EVMS waiver from the SAE on February 24, 2020, and therefore no EVMS reporting is required by the Contractor or Subcontractor. To provide insight into cost, schedule, and performance, the Contractor will submit CFSR and CSDR.

Initial Price (TY\$M) Target / Ceiling		Current Price (TY\$M) Target / Ceiling		Estimate at Completion (TY\$M) Contractor / PM		Initial Quantity	Current Quantity	Delivered Quantity
92.9	96.6	215.7	224.3	-	224.3	491	1,140	-

Work Completed (%): -
 Cost Variance (TY\$M): -
 Schedule Variance (TY\$M): -

Factors Contributing to Cost Variance and Projected Effects on Program Costs

Cost Variance reporting is not required on this contract.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

Schedule Variance reporting is not required on this contract.

(U) Contract and Effort Identification, Price, Quantity and Performance

Contract Number:	FA868123CB001	Order Number:	-
Contract Title:	SDB II Lot 9	Strategy:	FAR 15: Negotiated Contracts
CAGE:	15090 - RAYTHEON COMPANY	Contracting Office:	AFLCMC/EBM - Miniature Munitions Division
City, State/Province:	TUCSON, AZ		
Effort Number:	-	Supported Phase:	Production
Type:	Fixed-Price Incentive (Firm Target)	Award Date:	April 27, 2023
Latest Modification Date:	-	Definitization Date:	April 27, 2023
Latest Modification No.:	P00004	Work Start Date:	March 23, 2023
Technical Data Rights:	-		

Notes: Some of this Program's Contract data contains Controlled Unclassified Information (CUI) data and has been removed per the Implementation Plan for the DoD's Modernized Selected Acquisition Report (MSAR) Process, dated June 2023, which required the MSAR be submitted without any designation relation to dissemination control.

General Variance Explanation

The Program obtained an EVMS waiver for Lot 9 through 11, from the SAE on March 17, 2023, and therefore no EVMS reporting is required by the Contractor or Subcontractor. To provide insight into cost, schedule, and performance, the Contractor will submit quarterly CFSR and CSDR.

Initial Price (TY\$M) Target / Ceiling		Current Price (TY\$M) Target / Ceiling		Estimate at Completion (TY\$M) Contractor / PM		Initial Quantity	Current Quantity	Delivered Quantity
320.1	324.3	320.1	324.3	-	324.3	1,500	1,500	-

Work Completed (%): -

Cost Variance (TY\$M): -

Schedule Variance (TY\$M): -

Factors Contributing to Cost Variance and Projected Effects on Program Costs

Cost Variance reporting is not required on this FFP type contract.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

Schedule Variance reporting is not required on this FFP type contract.

(U) Production**(U) Low-Rate Initial Production**

	Original LRIP Determination	Current LRIP Determination
Total LRIP Quantity	4,034	9,947
Date	8/6/2010	6/4/2015
Reference	MS C ADM	MS C ADM
LRIP Period	FY 2010 - 2022	FY 2015 - 2025
Total Procurement Quantity	26,610	26,610
LRIP Percentage of Total	15.2%	37.4%

Rationale if LRIP Quantity Exceeds 10% of Total Procurement Quantity (Current Determination)

The Current Total LRIP Quantity is more than 10% of the total production quantity due to a delay in the completion of OT&E resulting from F-35B/C program schedule delays. Since the SDB II EMD contract award, the F-35B/C schedule has been further delayed, which required an additional increase in the LRIP quantities to 9,947. The LRIP quantity increase was approved by the MS C ADM and accounts for delivered quantities in Lots 1-5 and most probable quantities in Lots 6-11. These quantities were necessary to provide production-configured or representative articles for OT to establish an initial production base for the system, and to permit an orderly increase in the production rate for the system sufficient to lead to FRP.

LRIP Notes

None

(U) Deliveries and Expenditures**(U) Acquisition Funding**

	Total Estimate	Actual to Date	Actual, Percent Complete
Years Appropriated	-	-	-
Appropriations (TY, \$M)	9,323.8	9,323.8	100.0%
Expenditures (TY, \$M)	9,323.8	3,163.5	33.9%

(U) End Items Delivered

	Total Required	Planned to Date	Actual to Date	Actual, Percent Complete
Development	163			
SDB II		163	163	
Procurement	26,610			
SDB II		3,854	3,852	
Total	26,773	4,017	4,015	15.0%

Notes

The Government does not take delivery of the 163 Developmental Test assets and these assets will not go to inventory. Total sustainment quantity (26,610) will be delivered to inventory.

(U) International Program Aspects

General Memo

The SDB II program office included exportability in the Acquisition Strategy Planning Document early on and included considerations in the system design.

Exportability and Business Issues

The Defense Security Cooperation Agency (DSCA) has allocated \$71M from Special Defense Acquisition Funds (SDAF) to complete development and integration of exportability features into SDB II. Funding enables cost sharing over all projected sales to FMS customers. \$57M was obligated for development. The remaining was used for All-Up-Round level integration, qualification and testing on the Lot Integration and Test (LIT) contract Phase 1.

Future FMS quantities are limited due to obsolescence issues within the baseline program but should be resolved with Tech Refresh. Without Tech Refresh, FMS partner's ability to reach inventory objectives could be at risk.

Is design for international exportability planned? **Yes** Industry/Partner Exportability Cost-Sharing? **Yes**

Program Protection: Technology Security and Foreign Disclosure Issues

There are no current exportability issues preventing the sale of SDB II to international partners covered in the program Delegation of Disclosure Authority Letter.

(U) Agreements

Activity Date	Type	Agreement Number	International Partner(s)	Quantity	Funding (TY\$M)
6/2/2023	FMS LOA	FI-D-YAB	Finland (FI)	40	43.1
1/17/2023	FMS LOA	IT-D-AAG	Italy (IT)	24	22.3
12/16/2022	FMS LOA	GY-D-YAI	Germany (GY)	344	177.5
7/26/2022	FMS LOA	NO-D-AAG	Norway (NO)	20	18.9
4/26/2022	FMS LOA	AT-D-YAH/AT-D-YAC	Australia (AT)	-	115.2

(U) Agreement Information

Partner(s): Finland (FI) Activity Date: 6/2/2023
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: FI-D-YAB
 Notes: Total qty over 10 years will be 40 SDB IIs.

Finland (FI)		
Fiscal Year	Funding (TY\$M)	Quantity
2023	0.8	-
2024	2.4	-

Finland (FI)		
Fiscal Year	Funding (TY\$M)	Quantity
2025	5.8	-
2026	23.8	-
2027	4.5	-
2028	2.1	-
2029	1.8	40
2030	1.2	-
2031	0.6	-
2032	0.1	-
Total	43.1	40

(U) Agreement Information

Partner(s): Italy (IT) Activity Date: 1/17/2023
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: IT-D-AAG
 Notes: Financials reflect both LOA cases combined funding - 24 SDB II's; IT-D-AAG

Italy (IT)		
Fiscal Year	Funding (TY\$M)	Quantity
2023	1.0	-
2024	1.1	-
2025	1.9	-
2026	4.9	-
2027	4.5	10
2028	4.6	10
2029	3.1	4
2030	1.2	-
Total	22.3	24

(U) Agreement Information

Partner(s): Germany (GY) Activity Date: 12/16/2022
 Type: Foreign Military Sales: Letter of Offer and Acceptance Agreement Number: GY-D-YAI
 Notes: Financials reflect both LOA cases combined funding - 344 SDB IIs; GY-D-YAI

Germany (GY)		
Fiscal Year	Funding (TY\$M)	Quantity
2023	12.7	-
2024	2.0	-
2025	7.8	-
2026	17.2	-
2027	48.0	100
2028	87.9	100
2029	1.9	144
Total	177.5	344

(U) Agreement Information

Partner(s): Norway (NO) **Activity Date:** 7/26/2022
Type: Foreign Military Sales: Letter of Offer and Acceptance **Agreement Number:** NO-D-AAG
Notes: Financial reflect both LOA cases combined funding - 20 SDB IIs; NO-D-AAG

Norway (NO)		
Fiscal Year	Funding (TY\$M)	Quantity
2022	0.2	-
2023	0.5	-
2024	1.2	4
2025	1.7	-
2026	10.0	-
2027	2.5	16
2028	1.9	-
2029	0.8	-
2030	0.1	-
Total	18.9	20

(U) Agreement Information

Partner(s): Australia (AT) **Activity Date:** 4/26/2022
Type: Foreign Military Sales: Letter of Offer and Acceptance **Agreement Number:** AT-D-YAH/AT-D-YAC
Notes: Financials reflect both LOA cases combined funding - Quantities are Classified:
 1.) LOA: AT-D-YAH = Operational Technical & Evaluation (OT&E) Case
 2.) LOA: AT-D-YAC = Production/War-stock Case

Australia (AT)		
Fiscal Year	Funding (TY\$M)	Quantity
2018	0.2	-
2019	0.4	-
2020	0.4	-
2021	2.4	-
2022	88.7	-
2023	8.5	-
2024	5.7	-
2025	4.6	-
2026	4.3	-
Total	115.2	-



UNCLASSIFIED

Modernized Selected Acquisition Report Supplement

Small Diameter Bomb Increment II (SDB II)

FY 2025 President's Budget
Effective: December 31, 2023

UNCLASSIFIED

MSAR Supplement Sections

Program Description

Program Use of the Adaptive Acquisition Framework

Technologies and Systems Engineering

Funding Sources (Acquisition)

Funding Sources (Operating and Support)

Acquisition Estimate and Quantity Summary

Annual Acquisition Estimates by Appropriation Account

Acquired System Annual End-Item Quantities by Appropriation Account

Nuclear Costs

Operational Fielding Plan

O&S Independent Cost Estimate

Annual Operating and Support Estimates by Cost Element

Program Description

Full Name

Small Diameter Bomb Increment II

Short Name

SDB II

PNO

439

Lead Component

Air Force

AAF Pathway

MCA

Acquisition Type

MDAP

Acquired Systems

SDB II

Related Programs

Full Name	PNO	Pathway	Type	ACAT/ BCAT	Acquisition Status	Costs in SAR?	
						Acq	O&S

Program Use of the Adaptive Acquisition Framework

This acquisition is accomplished by a single program in the Major Capability Acquisition Pathway.

Technologies and Systems Engineering

Small Diameter Bomb Increment II

Major Software Efforts

Title	Status	Fielding Date	Description

Major Engineering Changes

Title	Original Need Date	Fielding Date	Description, Rationale and Program Impacts

Funding Sources (Acquisition)

Acquisition Funding Notes

Small Diameter Bomb Increment II

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
RDT&E	3600F	07	0207327F - Small Diameter Bomb (SDB)	0207327F	675191 - Small Diameter Bomb II		
Procurement	3020F	02	SDB002 - SMALL DIAMETER BOMB II	0207327F	-		
RDT&E	1319N	05	0604329N - Small Diameter Bomb (SDB)	0604329N	3072 - Small Diameter Bomb (SDB)		
Procurement	1507N	02	2238 - Small Diameter Bomb II	0204162N	-		

Funding Sources (Operating and Support)

Note: Budget lines fund activities executed by the Program Office or Sustainment Office.

Operating and Support Funding Notes

Small Diameter Bomb Increment II

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
O&M	3400F	01	011M - Depot Purchase Equipment Maintenance	0207327F	-		
O&M	3400F	01	011W - Contractor Logistics Support and System Support	0207327F	-		

Acquisition Estimate and Quantity Summary

Small Diameter Bomb Increment II

Acquisition Estimates

Category	PB 2025	TY (\$M)	Current Base Year	Original Base Year	Report Fiscal Year
			CY2015 (\$M)	CY2010 (\$M)	CY2024 (\$M)
RDT&E		2,236.5	2,078.8	1,922.1	2,669.5
Procurement		7,087.3	4,898.5	4,529.3	6,290.6
MILCON		-	-	-	-
O&M		-	-	-	-
Total Acquisition		9,323.8	6,977.3	6,451.3	8,960.2
PAUC		0.348	0.261	0.241	0.335
APUC		0.266	0.184	0.170	0.236

Acquisition End-Item Quantities

System	PB 2025	Development	Procurement
SDB II		163	26,610
Total		163	26,610

Unit Description

The Small Diameter Bomb (SDB) II is a joint Air Force and Navy program led by the Air Force to provide a conventional, small sized, precision guided air-to-ground weapon that can be delivered from both fighter and bomber aircraft to attack mobile and fixed targets through adverse weather from standoff. The SDB II incorporates a tri-mode seeker and data link, which expands the use to moving targets.

Current and Future Years Defense Program Summary, TY(\$M)

Appropriation	Prior	2024	2025	2026	2027	2028	2029	To Complete	Total
RDT&E	1,762.2	89.7	49.8	37.0	36.1	35.8	36.5	189.4	2,236.5
Procurement	1,955.0	357.4	404.5	268.6	252.7	229.4	229.9	3,389.7	7,087.3
MILCON	-	-	-	-	-	-	-	-	-
O&M	-	-	-	-	-	-	-	-	-
PB 2025 Total	3,717.2	447.1	454.3	305.6	288.8	265.3	266.4	3,579.1	9,323.8

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Small Diameter Bomb Increment II

Source for TY\$-CY\$ Conversion: SAF/FMCE Raw and Weighted Inflation Indices for DAF Accounts: 23 Feb 2024

3600F - Research, Development, Test & Eval, AF					
fiscal year		Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2015 (\$M)
Total		1,708.3	1,708.3	-	1,617.8
2006		24.720	24.7	0.870474	28.4
2007		91.990	92.0	0.893404	103.0
2008		139.610	139.6	0.911376	153.2
2009		107.110	107.1	0.923373	116.0
2010		128.080	128.1	0.934977	137.0
2011		99.990	100.0	0.952650	105.0
2012		138.460	138.5	0.969249	142.9
2013		125.100	125.1	0.985629	126.9
2014		109.580	109.6	0.999371	109.6
2015		65.930	65.9	1.009409	65.3
2016		27.950	28.0	1.024845	27.3
2017		40.200	40.2	1.046291	38.4
2018		37.670	37.7	1.068286	35.3
2019		75.330	75.3	1.088146	69.2
2020		44.510	44.5	1.116133	39.9
2021		24.000	24.0	1.168572	20.5
2022		31.000	31.0	1.231261	25.2
2023		37.990	38.0	1.275023	29.8
2024		37.520	37.5	1.307498	28.7
2025		29.900	29.9	1.335559	22.4
2026		24.820	24.8	1.363605	18.2
2027		25.380	25.4	1.392241	18.2
2028		25.780	25.8	1.421478	18.1
2029		26.230	26.2	1.451329	18.1
2030		29.880	29.9	1.481807	20.2
2031		30.530	30.5	1.512925	20.2
2032		31.200	31.2	1.544696	20.2
2033		31.890	31.9	1.577135	20.2
2034		32.590	32.6	1.610255	20.2
2035		33.310	33.3	1.644070	20.3

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Small Diameter Bomb Increment II

Source for TY\$-CY\$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

1319N - Research, Development, Test & Eval, Navy					
fiscal year		Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2015 (\$M)
Total		528.3	528.3	-	461.0
2006			-	0.875502	-
2007			-	0.896946	-
2008			-	0.913307	-
2009			-	0.925034	-
2010		12.260	12.3	0.938909	13.1
2011		14.070	14.1	0.961328	14.6
2012		18.860	18.9	0.977271	19.3
2013		16.210	16.2	0.987533	16.4
2014		17.460	17.5	1.001487	17.4
2015		11.080	11.1	1.014088	10.9
2016		28.400	28.4	1.032910	27.5
2017		34.170	34.2	1.052236	32.5
2018		47.430	47.4	1.078010	44.0
2019		52.880	52.9	1.098772	48.1
2020		44.400	44.4	1.139178	39.0
2021		42.780	42.8	1.190378	35.9
2022		34.560	34.6	1.252566	27.6
2023		38.430	38.4	1.289855	29.8
2024		52.210	52.2	1.319300	39.6
2025		19.890	19.9	1.347286	14.8
2026		12.130	12.1	1.375579	8.8
2027		10.710	10.7	1.404466	7.6
2028		10.060	10.1	1.433960	7.0
2029		10.270	10.3	1.464073	7.0

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Small Diameter Bomb Increment II

Source for TY\$-CY\$ Conversion: SAF/FMCE Raw and Weighted Inflation Indices for DAF Accounts: 23 Feb 2024

3020F - Missile Procurement, Air Force									
fiscal year	End Item Recurring Flyaway	Non-End Item Recurring Flyaway	Non-Recurring Flyaway	Initial Spares	Depot Activation	Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2015 (\$M)
Total	5,953.7	-	-	-	-	-	5,953.7	-	4,060.4
2006							-	0.879049	-
2007							-	0.901133	-
2008							-	0.917556	-
2009							-	0.930638	-
2010							-	0.943818	-
2011							-	0.963266	-
2012							-	0.979354	-
2013							-	1.001912	-
2014							-	1.016695	-
2015	35.103						35.1	1.029167	34.1
2016	66.027						66.0	1.049093	62.9
2017	100.357						100.4	1.075757	93.3
2018	105.344						105.3	1.102592	95.5
2019	110.771						110.8	1.134704	97.6
2020	183.279						183.3	1.178799	155.5
2021	185.096						185.1	1.231999	150.2
2022	275.934						275.9	1.278270	215.9
2023	480.406						480.4	1.311249	366.4
2024	291.553						291.6	1.340544	217.5
2025	328.382						328.4	1.368891	239.9
2026	181.872						181.9	1.397638	130.1
2027	166.239						166.2	1.426988	116.5
2028	136.181						136.2	1.456955	93.5
2029	134.739						134.7	1.487551	90.6
2030	212.961						213.0	1.518790	140.2
2031	190.584						190.6	1.550684	122.9
2032	328.370						328.4	1.583249	207.4
2033	331.866						331.9	1.616497	205.3
2034	409.434						409.4	1.650444	248.1
2035	409.434						409.4	1.685103	243.0
2036	428.103						428.1	1.720490	248.8
2037	433.405						433.4	1.756620	246.7
2038	412.935						412.9	1.793509	230.2
2039	7.558						7.6	1.831173	4.1
2040	7.718						7.7	1.869628	4.1

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Small Diameter Bomb Increment II

Source for TY\$-CY\$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

1507N - Weapons Procurement, Navy									
fiscal year	End Item Recurring Flyaway	Non-End Item Recurring Flyaway	Non-Recurring Flyaway	Initial Spares	Depot Activation	Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2015 (\$M)
Total	1,133.6	-	-	-	-	-	1,133.6	-	838.1
2006							-	0.889057	-
2007							-	0.908413	-
2008							-	0.922787	-
2009							-	0.936045	-
2010							-	0.952030	-
2011							-	0.970251	-
2012							-	0.984857	-
2013							-	0.998852	-
2014							-	1.012756	-
2015							-	1.029277	-
2016							-	1.048614	-
2017							-	1.071319	-
2018	23.310						23.3	1.100740	21.2
2019	88.760						88.8	1.133058	78.3
2020	108.450						108.5	1.178005	92.1
2021	57.750						57.8	1.231760	46.9
2022	33.760						33.8	1.279867	26.4
2023	100.680						100.7	1.312965	76.7
2024	65.860						65.9	1.341792	49.1
2025	76.100						76.1	1.370109	55.5
2026	86.740						86.7	1.398881	62.0
2027	86.490						86.5	1.428258	60.6
2028	93.230						93.2	1.458251	63.9
2029	95.190						95.2	1.488875	63.9
2030	112.560						112.6	1.520141	74.0
2031	104.730						104.7	1.552064	67.5

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

Small Diameter Bomb Increment II

3600F - Research, Development, Test & Eval, AF				
fiscal year	SDB II			Total
Total	163			163
Undistributed				-
2014	163			163

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

Small Diameter Bomb Increment II

3020F - Missile Procurement, Air Force				
fiscal year	SDB II			Total
Total	21,610			21,610
Undistributed				-
2014				-
2015	144			144
2016	250			250
2017	312			312
2018	570			570
2019	510			510
2020	747			747
2021	674			674
2022	976			976
2023	2,007			2,007
2024	920			920
2025	868			868
2026	506			506
2027	510			510
2028	474			474
2029	460			460
2030	690			690
2031	599			599
2032	1,140			1,140
2033	1,140			1,140
2034	1,500			1,500
2035	1,500			1,500
2036	1,800			1,800
2037	1,800			1,800
2038	1,513			1,513

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

Small Diameter Bomb Increment II

1507N - Weapons Procurement, Navy				
fiscal year	SDB II			Total
Total	5,000			5,000
Undistributed				-
2014				-
2015				-
2016				-
2017				-
2018	90			90
2019	750			750
2020	461			461
2021	226			226
2022	164			164
2023	378			378
2024	250			250
2025	280			280
2026	334			334
2027	330			330
2028	366			366
2029	380			380
2030	450			450
2031	541			541

Nuclear Costs

Small Diameter Bomb Increment II

Program's Use of Department of Energy Resources

None

Operational Fielding Plan

Small Diameter Bomb Increment II

System: SDB II

Fielding and Inventory Notes

Some of this Program's Operational Fielding Plan are Controlled Unclassified Information (CUI) and have been removed per paragraph (i) of [title 10 United States Code 4351] which required the SAR be submitted without any designation relation to dissemination control.

SDB II Fielding Plan and Inventory

fiscal year	Store	Field	Expend/Loss	Decommission	Inventory
2023					
2024					-
2025					-
2026					-
2027					-
2028					-
2029					-

O&S Independent Cost Estimate

Small Diameter Bomb Increment II

Independent and Current Cost Estimate Comparison

Category	CY2015 (\$M)	Independent Cost Estimate 5/12/2022	Current Estimate 9/20/2023	Variance with ICE (%)
Unit-Level Manpower		47.9	47.8	0%
Unit Operations		-	-	-
Maintenance		230.1	213.0	-7%
Sustaining Support		503.3	461.9	-8%
Continued System Improvements		155.4	133.9	-14%
Other		92.6	76.4	-17%
Total O&S		1,029.3	933.0	-9%

Independent Cost Estimate Source

Event: APB Updates

Type: Component Cost Position

Approved by: Air Force Cost Analysis Agency, May 12, 2022

Note: APB updated to reflect MDA approved an increase to the procurement quantity from 17,000 (12,000 United State Air Force (USAF), 5,000 United State Navy (USN)) to 26,610 (21,610 USAF, 5,000 USN) total production weapons in

Current Cost Estimate Source

Type: Program Office Estimate

Approved by: AFLCMC/FZC, September 20, 2023

Cost Estimate Variance Explanation

The variance between the FY 2022 Component Cost Position and the FY 2023 POE is due to the application of updated OSD indices.

Annual Operating and Support Estimates by Cost Element

Small Diameter Bomb Increment II

System: SDB II

Source for TY-CY Conversion:

Operating and Support Cost Elements							
fiscal year	1.0 Unit-Level Manpower	2.0 Unit Operations	3.0 Maintenance	4.0 Sustaining Support	5.0 Continuing System Improvements	Other	Total CY2015 (\$M)
Total	47.8	-	213.0	461.9	133.9	76.4	933.0
2017	-	-	-	0.500	-	-	0.5
2018	-	-	-	0.500	-	-	0.5
2019	-	-	-	0.500	-	-	0.5
2020	-	-	-	0.500	-	-	0.5
2021	-	-	-	0.600	-	-	0.6
2022	0.300	-	1.400	2.300	-	-	4.0
2023	0.300	-	1.600	3.600	-	-	5.5
2024	0.400	-	2.800	10.000	1.800	-	15.0
2025	0.500	-	3.300	11.500	3.500	-	18.8
2026	0.600	-	4.000	11.600	1.800	-	18.0
2027	0.700	-	4.600	11.600	3.400	-	20.3
2028	0.800	-	5.100	11.700	2.100	-	19.7
2029	0.900	-	5.600	11.700	6.000	-	24.2
2030	1.000	-	6.100	10.400	2.200	-	19.7
2031	1.100	-	7.100	10.500	6.000	-	24.7
2032	1.200	-	7.900	10.600	2.200	-	21.9
2033	1.400	-	8.800	10.600	6.000	-	26.8
2034	1.500	-	9.600	10.700	2.200	-	24.0
2035	1.700	-	9.800	10.700	6.000	-	28.2
2036	1.800	-	10.000	10.800	2.200	-	24.8
2037	1.900	-	10.100	10.900	6.000	-	28.9
2038	2.100	-	10.300	10.900	2.200	-	25.5
2039	2.200	-	10.400	13.000	6.100	-	31.7
2040	2.300	-	10.500	13.100	2.200	1.600	29.7
2041	2.200	-	10.300	15.900	6.100	3.500	38.0
2042	2.200	-	9.200	16.000	2.200	4.200	33.8
2043	2.100	-	8.300	16.100	6.100	3.400	36.0
2044	2.000	-	7.900	16.100	2.200	2.500	30.7
2045	1.900	-	7.400	16.100	6.100	3.000	34.5
2046	1.800	-	6.800	15.800	2.200	3.500	30.1
2047	1.700	-	6.200	17.700	6.100	3.400	35.1
2048	1.600	-	5.500	17.800	2.200	3.300	30.4
2049	1.500	-	5.000	17.500	6.000	3.300	33.3

System: SDB II

Source for TY-CY Conversion:

Operating and Support Cost Elements							
fiscal year	1.0 Unit-Level Manpower	2.0 Unit Operations	3.0 Maintenance	4.0 Sustaining Support	5.0 Continuing System Improvements	Other	Total CY2015 (\$M)
2050	1.400	-	4.400	16.800	1.800	3.600	28.0
2051	1.300	-	3.600	16.000	6.100	4.700	31.7
2052	1.200	-	2.700	15.100	1.800	4.800	25.6
2053	1.000	-	1.800	14.600	6.100	5.100	28.6
2054	0.900	-	1.300	9.000	1.400	4.200	16.8
2055	0.700	-	1.100	9.000	3.800	3.600	18.2
2056	0.600	-	0.900	9.000	1.400	3.600	15.5
2057	0.500	-	0.700	6.200	3.800	3.600	14.8
2058	0.300	-	0.500	6.200	1.400	3.600	12.0
2059	0.200	-	0.300	6.200	3.800	3.500	14.0
2060	-	-	0.100	6.000	1.400	3.400	10.9
2061	-	-	-	-	-	1.000	1.0