



Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-468



B61 Mod 12 Life Extension Program Tailkit Assembly (B61 Mod 12 LEP TKA)

As of December 31, 2012

Defense Acquisition Management
Information Retrieval
(DAMIR)

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Program Information

Program Name

B61 Mod 12 Life Extension Program Tailkit Assembly (B61 Mod 12 LEP TKA)

DoD Component

Air Force

Responsible Office

Responsible Office

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Date Assigned	January 1, 2012

References

SAR Baseline (Development Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated December 14, 2012

Approved APB

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated December 14, 2012

Mission and Description

The B61 Mod 12 Life Extension Program (LEP) Tailkit Assembly (TKA) (hereby referred to as B61-12 TKA) will extend the service life of the weapon. The objective is to combine four B61 variants into a single air-delivered nuclear gravity weapon in order to maintain the nuclear capability on existing legacy aircraft and Dual Capable Aircraft (DCA). The single variant will operate in two modes: System 1 (analog/ballistic mode) and System 2 (digital/guided mode). This is an Air Force led, joint DoD/Department of Energy (DOE) program managed through the B61 LEP Project Officers Group (POG) and its subgroups.

The DoD responsibility is accomplished through a partnership between the Air Force Life Cycle Management Center (AFLCMC) and Air Force Nuclear Weapons Center (AFNWC). In accordance with the Air Force Materiel Command mission assignment memorandum (dated February 11, 2011) and the National Nuclear Security Administration (NNSA)/AFNWC Memorandum of Understanding (dated June 28, 2012), the AFLCMC is responsible for the development, acquisition, and delivery of a guided TKA and the AFNWC is responsible for All Up Round (AUR) technical integration, system qualification, and fielding of the B61-12 variant.

Additionally, the AFNWC has overall responsibility for B61-12 programmatic integration and Operational Suitability, Safety, and Effectiveness (OSS&E).

The DOE/NNSA is responsible for the B61-12 Bomb Assembly (BA) and all aspects of the nuclear warhead, including design, manufacture, and portions of sustainment. Funding of these activities will be shared between the DoD and DOE.

Executive Summary

This is the initial SAR submission for the B61-12 Tailkit Assembly (TKA) program. B61-12 TKA is an Air Force led Acquisition Category (ACAT) ID program in the Engineering and Manufacturing Development (EMD) phase.

In February 2012, the Nuclear Weapons Council, chaired by the Under Secretary of Defense for Acquisition, Technology and Logistics (USD(AT&L)), authorized the B61 Life Extension Program (LEP) to progress to Phase 6.3 of the nuclear systems life cycle as defined by DoD Instruction 5030.55. This major milestone cleared the path for the National Nuclear Security Administration (NNSA) to begin Engineering Development for the B61-12 warhead refurbishment effort.

In April 2012, the USD(AT&L) directed the B61-12 TKA program office to proceed directly to a Milestone B decision without a separate Technology Development phase based on the maturity of the required technology. On November 19, 2012, the Department of the Air Force was granted approval of Milestone B and authorization to enter the EMD phase.

On November 27, 2012, the B61-12 TKA program office awarded a Cost Plus Incentive Fee contract to Boeing for EMD Phase 1 with priced options for EMD Phase 2 and a Technical Data Package. In addition, the contract contains production lot design-to-unit-cost goals, which are tied to performance incentives for the production phase of the program. Finally, the Acquisition Program Baseline was approved on December 14, 2012. Major risks include concurrent development activities being conducted by the DoD for the B61-12 TKA and the Department of Energy (DOE) for the bomb assembly, which drive threshold dates that are one year beyond objective dates for Milestone C, First TKA Production Delivery, and Full Rate Production Decision.

In November 2012, in conjunction with the Milestone B decision, certification was made pursuant to section 2366b of title 10, United States Code. Based on program maturity, the B61-12 TKA was deemed ready to enter the EMD phase; however, since the Milestone B decision occurred earlier than planned, the USD(AT&L) waived four of the 2366b provisions. Due to sequestration reductions and reprogramming of funds, the certification requirements for two of the four waived provisions, (a)(1)(B) and (a)(1)(D), were not able to be satisfied with the submission of the FY 2014 President's Budget and the associated Future Years Defense Program. The Air Force will attempt to realign funding in the out-year budgeting process to fund the program to the Milestone B Service Cost Position. Relative to the third waived provision, (a)(2), the program will satisfy the certification requirement upon completion of the Preliminary Design Review (PDR) and associated post-PDR assessment, which will occur within approximately 20 months of contract award. Based on the maturity of the required technology, the USD(AT&L) determined that a Technology Readiness Assessment for the B61-12 TKA is not needed; however, based on similar information at the appropriate time during EMD, the Assistant Secretary of Defense for Research and Engineering will conduct an independent review and assessment of the required technology to satisfy the certification requirement for the fourth waived provision, (a)(3)(D). The USD(AT&L) will continue periodic reviews, in accordance with subsection (d)(2)(B), until a determination can be made for the waived provisions.

There are no significant software-related issues with this program at this time.

Threshold Breaches

APB Breaches

Schedule		<input type="checkbox"/>
Performance		<input type="checkbox"/>
Cost	RDT&E	<input type="checkbox"/>
	Procurement	<input type="checkbox"/>
	MILCON	<input type="checkbox"/>
	Acq O&M	<input type="checkbox"/>
O&S Cost		<input type="checkbox"/>
Unit Cost	PAUC	<input type="checkbox"/>
	APUC	<input type="checkbox"/>

Nunn-McCurdy Breaches

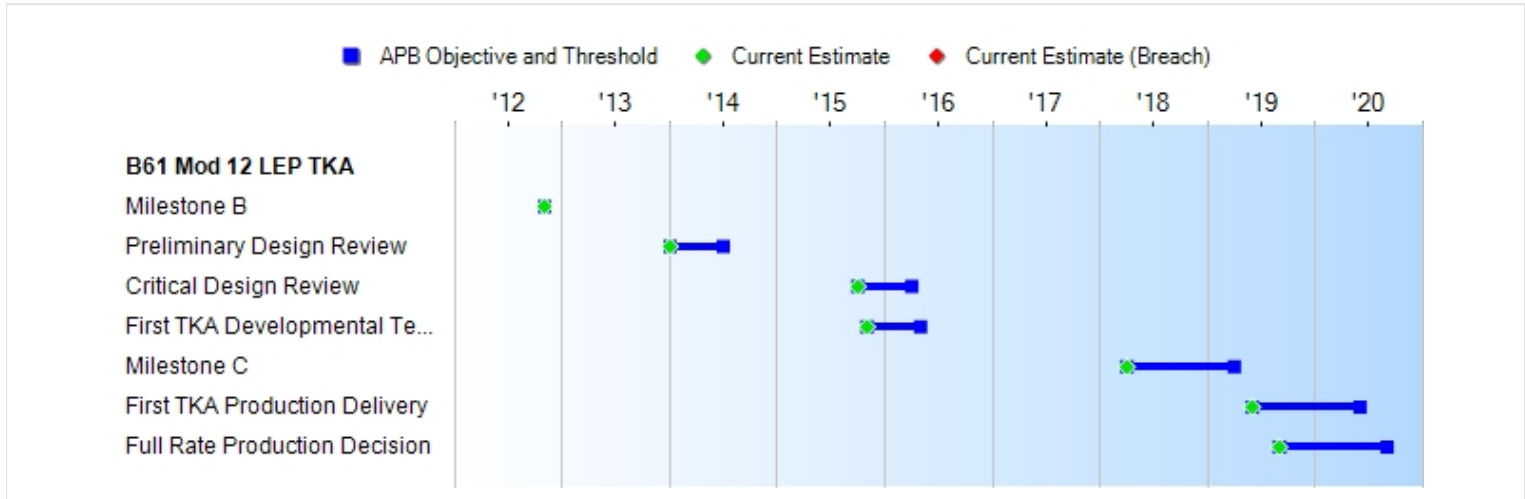
Current UCR Baseline

PAUC	None
APUC	None

Original UCR Baseline

PAUC	None
APUC	None

Schedule



Milestones	SAR Baseline Dev Est	Current APB Development Objective/Threshold		Current Estimate
Milestone B	NOV 2012	NOV 2012	NOV 2012	NOV 2012
Preliminary Design Review	JAN 2014	JAN 2014	JUL 2014	JAN 2014
Critical Design Review	OCT 2015	OCT 2015	APR 2016	OCT 2015
First TKA Developmental Test Flight	NOV 2015	NOV 2015	MAY 2016	NOV 2015
Milestone C	APR 2018	APR 2018	APR 2019	APR 2018
First TKA Production Delivery	JUN 2019	JUN 2019	JUN 2020	JUN 2019
Full Rate Production Decision	SEP 2019	SEP 2019	SEP 2020	SEP 2019

Acronyms And Abbreviations

TKA - Tailkit Assembly

Change Explanations

None

Memo

1/ Risks associated with concurrent development activities being conducted by the DoD and the Department of Energy (DOE) drive threshold dates that are one year beyond objective dates for Milestone C and Full Rate Production Decision.

2/ Risks associated with concurrent development activities being conducted by the DoD and the DOE drive a threshold date that is one year beyond the objective date for First TKA Production Delivery. Delivery of the first production unit (First TKA Production Delivery) is used as a surrogate for Initial Operational Capability

(IOC) because DOE is responsible for production integration of the Bomb Assembly/TKA and subsequent All-Up-Round deliveries to the field for IOC.

Performance

Characteristics	SAR Baseline Dev Est	Current APB Development Objective/Threshold		Demonstrated Performance	Current Estimate
Aircraft Integration (KPP)	B61-12 TKA, when mated to the B61-12 BA, must be integrated on the F-35A and LRS-B for System 2 guided delivery; F-16C/D (Blk 40-52), F-16 MLU, and PA-200 for System 1 ballistic delivery.	B61-12 TKA, when mated to the B61-12 BA, must be integrated on the F-35A and LRS-B for System 2 guided delivery; F-16C/D (Blk 40-52), F-16 MLU, and PA-200 for System 1 ballistic delivery.	B61-12 TKA, when mated to the B61-12 BA, must be integrated on B-2A and F-15E aircraft for System 2 guided delivery.	TBD	B61-12 TKA, when mated to the B61-12 BA, must be integrated on the F-35A and LRS-B for System 2 guided delivery; F-16C/D (Blk 40-52), F-16 MLU, and PA-200 for System 1 ballistic delivery.
WS3 Vault Compatibility (KPP)	B61-12 TKA, while mated to the B61-12 BA, must permit the storage of four (4) B61-12 AURs in a single WS3 vault.	B61-12 TKA, while mated to the B61-12 BA, must permit the storage of four (4) B61-12 AURs in a single WS3 vault.	B61-12 TKA, while mated to the B61-12 BA, must permit the storage of four (4) B61-12 AURs in a single WS3 vault.	TBD	B61-12 TKA, while mated to the B61-12 BA, must permit the storage of four (4) B61-12 AURs in a single WS3 vault.
HEMP Survivability (KSA)	B61 TKA achieves the accuracy KPP after exposure to the HEMP environment.	B61 TKA achieves the accuracy KPP after exposure to the HEMP environment.	B61 TKA achieves the accuracy KPP after exposure to the HEMP environment.	TBD	B61 TKA achieves the accuracy KPP after exposure to the HEMP environment.

Requirements Source: Capability Development Document (CDD) dated September 20, 2012

Acronyms And Abbreviations

AUR - All-Up-Round
BA - Bomb Assembly
Blk - Block
HEMP - High Altitude Electro-Magnetic Pulse
KPP - Key Performance Parameter
KSA - Key System Attribute
LRS-B - Long Range Strike-Bomber
MLU - Mid-Life Upgrade
TBD - To Be Determined
TKA - Tailkit Assembly
WS3 - Weapon Storage and Security System

Change Explanations

None

Classified Performance information is provided in the classified annex to this submission.

Track To Budget**RDT&E**

APPN 3600	BA 05	PE 0101125F	(Air Force)
	Project 657007	B61 LEP	

Procurement

APPN 3011	BA 01	PE 0101125F	(Air Force)
	ICN 354040	B61	

Cost and Funding

Cost Summary

Total Acquisition Cost and Quantity

Appropriation	BY2012 \$M			BY2012 \$M	TY \$M		
	SAR Baseline Dev Est	Current APB Development Objective/Threshold		Current Estimate	SAR Baseline Dev Est	Current APB Development Objective	Current Estimate
RDT&E	1007.6	1007.6	1108.4	998.9	1090.7	1090.7	1090.7
Procurement	314.0	314.0	345.4	316.6	361.1	361.1	361.1
Flyaway	314.0	--	--	316.6	361.1	--	361.1
Recurring	314.0	--	--	316.6	361.1	--	361.1
Non Recurring	0.0	--	--	0.0	0.0	--	0.0
Support	0.0	--	--	0.0	0.0	--	0.0
Other Support	0.0	--	--	0.0	0.0	--	0.0
Initial Spares	0.0	--	--	0.0	0.0	--	0.0
MILCON	0.0	0.0	--	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	--	0.0	0.0	0.0	0.0
Total	1321.6	1321.6	N/A	1315.5	1451.8	1451.8	1451.8

Confidence Level for Current APB Cost 56% -

The confidence level for the Engineering and Manufacturing Development (EMD) total estimate is 56%; the confidence level for the Procurement estimate is 51%; and the confidence level for the Operating and Support (O&S) estimate is 50%.

The Acquisition Program Baseline (APB) costs reflect the Service Cost Position (SCP), which was approved on October 19, 2012. The SCP aims to provide sufficient resources to execute the program under normal conditions, encountering average levels of technical, schedule, and programmatic risk and external interference. It is consistent with average resource expenditures on historical efforts of similar size, scope, and complexity. Therefore, the approved SCP represents a mean cost estimate.

Quantity	SAR Baseline Dev Est	Current APB Development	Current Estimate
RDT&E	77	77	77
Procurement	813	813	813
Total	890	890	890

Cost and Funding

Funding Summary

Appropriation and Quantity Summary FY2014 President's Budget / December 2012 SAR (TY\$ M)

Appropriation	Prior	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	To Complete	Total
RDT&E	81.6	80.2	67.9	200.6	216.0	210.2	155.1	79.1	1090.7
Procurement	0.0	0.0	0.0	0.0	0.0	0.0	149.1	212.0	361.1
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2014 Total	81.6	80.2	67.9	200.6	216.0	210.2	304.2	291.1	1451.8
	--	--	--	--	--	--	--	--	--

Program funding and production quantities listed in this SAR are consistent with the FY 2014 President's Budget (PB). The FY 2014 PB did not reflect the enacted DoD appropriation for FY 2013, nor sequestration; it reflected the President's requested amounts for FY 2013.

Quantity	Undistributed	Prior	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	To Complete	Total
Development	77	0	0	0	0	0	0	0	0	77
Production	0	0	0	0	0	0	0	250	563	813
PB 2014 Total	77	0	0	0	0	0	0	250	563	890
	--	--	--	--	--	--	--	--	--	--

Cost and Funding

Annual Funding By Appropriation

Annual Funding TY\$

3600 | RDT&E | Research, Development, Test, and Evaluation, Air Force

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
2012	--	--	--	--	--	--	81.6
2013	--	--	--	--	--	--	80.2
2014	--	--	--	--	--	--	67.9
2015	--	--	--	--	--	--	200.6
2016	--	--	--	--	--	--	216.0
2017	--	--	--	--	--	--	210.2
2018	--	--	--	--	--	--	155.1
2019	--	--	--	--	--	--	75.0
2020	--	--	--	--	--	--	4.1
Subtotal	77	--	--	--	--	--	1090.7

Annual Funding BY\$**3600 | RDT&E | Research, Development, Test, and Evaluation, Air Force**

Fiscal Year	Quantity	End Item Recurring Flyaway BY 2012 \$M	Non End Item Recurring Flyaway BY 2012 \$M	Non Recurring Flyaway BY 2012 \$M	Total Flyaway BY 2012 \$M	Total Support BY 2012 \$M	Total Program BY 2012 \$M
2012	--	--	--	--	--	--	80.6
2013	--	--	--	--	--	--	77.5
2014	--	--	--	--	--	--	64.3
2015	--	--	--	--	--	--	186.6
2016	--	--	--	--	--	--	197.1
2017	--	--	--	--	--	--	188.3
2018	--	--	--	--	--	--	136.3
2019	--	--	--	--	--	--	64.7
2020	--	--	--	--	--	--	3.5
Subtotal	77	--	--	--	--	--	998.9

Annual Funding TY\$**3011 | Procurement | Procurement of Ammunition, Air Force**

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
2018	250	149.1	--	--	149.1	--	149.1
2019	563	212.0	--	--	212.0	--	212.0
Subtotal	813	361.1	--	--	361.1	--	361.1

Annual Funding BY\$**3011 | Procurement | Procurement of Ammunition, Air Force**

Fiscal Year	Quantity	End Item Recurring Flyaway BY 2012 \$M	Non End Item Recurring Flyaway BY 2012 \$M	Non Recurring Flyaway BY 2012 \$M	Total Flyaway BY 2012 \$M	Total Support BY 2012 \$M	Total Program BY 2012 \$M
2018	250	132.1	--	--	132.1	--	132.1
2019	563	184.5	--	--	184.5	--	184.5
Subtotal	813	316.6	--	--	316.6	--	316.6

Low Rate Initial Production

	Initial LRIP Decision	Current Total LRIP
Approval Date	11/19/2012	11/19/2012
Approved Quantity	250	250
Reference	Milestone B ADM	Milestone B ADM
Start Year	2018	2018
End Year	2018	2018

The Current Total LRIP Quantity is more than 10% of the total production quantity due to the low production run and the need to synchronize DoD deliveries with the Department of Energy (DOE) B61-12 bomb assembly program.

Foreign Military Sales

None

Nuclear Cost

Nuclear costs related to the B61-12 TKA program are captured in the Department of Energy (DOE) bomb assembly SAR.

Unit Cost**Unit Cost Report**

	BY2012 \$M	BY2012 \$M	
Unit Cost	Current UCR Baseline (DEC 2012 APB)	Current Estimate (DEC 2012 SAR)	BY % Change

Program Acquisition Unit Cost (PAUC)

Cost	1321.6	1315.5	
Quantity	890	890	
Unit Cost	1.485	1.478	-0.47

Average Procurement Unit Cost (APUC)

Cost	314.0	316.6	
Quantity	813	813	
Unit Cost	0.386	0.389	+0.72

	BY2012 \$M	BY2012 \$M	
Unit Cost	Original UCR Baseline (DEC 2012 APB)	Current Estimate (DEC 2012 SAR)	BY % Change

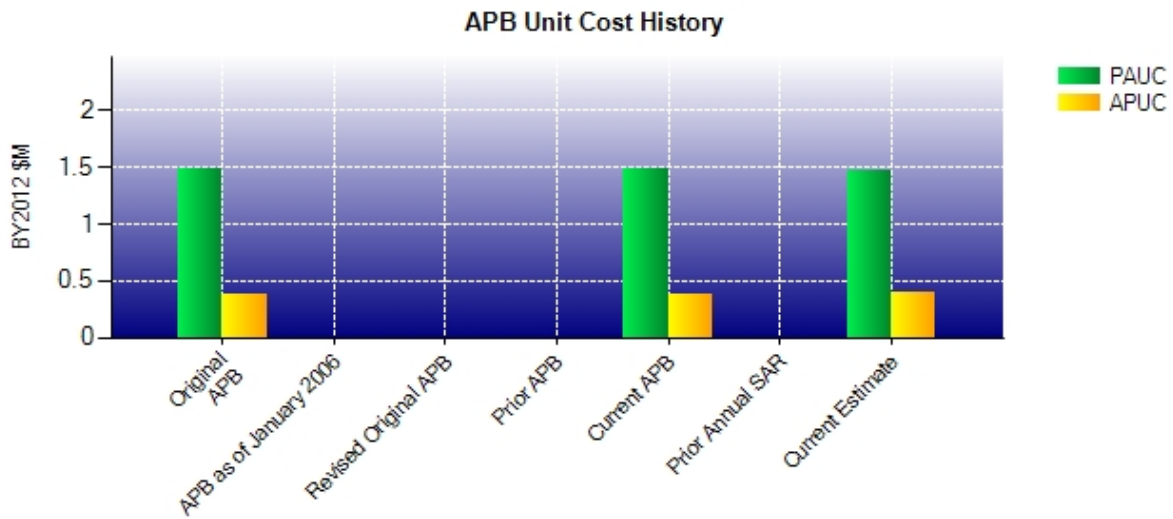
Program Acquisition Unit Cost (PAUC)

Cost	1321.6	1315.5	
Quantity	890	890	
Unit Cost	1.485	1.478	-0.47

Average Procurement Unit Cost (APUC)

Cost	314.0	316.6	
Quantity	813	813	
Unit Cost	0.386	0.389	+0.72

Unit Cost History



	Date	BY2012 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	DEC 2012	1.485	0.386	1.631	0.444
APB as of January 2006	N/A	N/A	N/A	N/A	N/A
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	N/A	N/A	N/A	N/A	N/A
Current APB	DEC 2012	1.485	0.386	1.631	0.444
Prior Annual SAR	N/A	N/A	N/A	N/A	N/A
Current Estimate	DEC 2012	1.478	0.389	1.631	0.444

SAR Unit Cost History

Current SAR Baseline to Current Estimate (TY \$M)

Initial PAUC Dev Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
1.631	0.011	0.000	0.000	0.000	-0.011	0.000	0.000	0.000	1.631

Current SAR Baseline to Current Estimate (TY \$M)

Initial APUC Dev Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.444	-0.003	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.444

SAR Baseline History

Item/Event	SAR Planning Estimate (PE)	SAR Development Estimate (DE)	SAR Production Estimate (PdE)	Current Estimate
Milestone A	N/A	N/A	N/A	N/A
Milestone B	N/A	NOV 2012	N/A	NOV 2012
Milestone C	N/A	APR 2018	N/A	APR 2018
IOC	N/A	JUN 2019	N/A	JUN 2019
Total Cost (TY \$M)	N/A	1451.8	N/A	1451.8
Total Quantity	N/A	890	N/A	890
Prog. Acq. Unit Cost (PAUC)	N/A	1.631	N/A	1.631

First Tailkit Assembly (TKA) Production Delivery is used as a surrogate for Initial Operational Capability (IOC).

Cost Variance

Summary Then Year \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Dev Est)	1090.7	361.1	--	1451.8
Previous Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	--	--	--	--
Other	--	--	--	--
Support	--	--	--	--
Subtotal	--	--	--	--
Current Changes				
Economic	+12.1	-2.6	--	+9.5
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	-12.1	+2.6	--	-9.5
Other	--	--	--	--
Support	--	--	--	--
Subtotal	--	--	--	--
Total Changes	--	--	--	--
CE - Cost Variance	1090.7	361.1	--	1451.8
CE - Cost & Funding	1090.7	361.1	--	1451.8

Summary Base Year 2012 \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Dev Est)	1007.6	314.0	--	1321.6
Previous Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	--	--	--	--
Other	--	--	--	--
Support	--	--	--	--
Subtotal	--	--	--	--
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	-8.7	+2.6	--	-6.1
Other	--	--	--	--
Support	--	--	--	--
Subtotal	-8.7	+2.6	--	-6.1
Total Changes	-8.7	+2.6	--	-6.1
CE - Cost Variance	998.9	316.6	--	1315.5
CE - Cost & Funding	998.9	316.6	--	1315.5

Initial SAR - Above variances (if any) reflect changes since the SAR Baseline/APB.

SAR Baseline Reference: Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated December 14, 2012

RDT&E	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	+12.1
Adjustment for current and prior escalation. (Estimating)	-0.7	-0.7
Revised estimate to reflect the application of new escalation indices. (Estimating)	-8.0	-11.4
RDT&E Subtotal	-8.7	0.0

Procurement	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-2.6
Revised estimate to reflect the application of new escalation indices. (Estimating)	+2.6	+2.6
Procurement Subtotal	+2.6	0.0

Contracts

Appropriation: RDT&E

Contract Name	B61-12 TKA EMD Phase 1
Contractor	Boeing
Contractor Location	2600 N 3rd Street St. Charles, MO 63301
Contract Number, Type	FA2103-13-C-0006, CPIF
Award Date	November 27, 2012
Definitization Date	November 27, 2012

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
178.6	N/A	N/A	178.6	N/A	N/A	178.6	178.6

Variance	Cost Variance	Schedule Variance
Cumulative Variances To Date	0.0	0.0
Previous Cumulative Variances	--	--
Net Change	+0.0	+0.0

Cost And Schedule Variance Explanations

None

General Contract Variance Explanation

Cost and schedule variance reporting has not commenced because this cost type contract was awarded on November 27, 2012, and Earned Value Management (EVM) reporting is not expected to begin until fourth quarter FY 2013.

Contract Comments

This is the first time this contract is being reported.

Deliveries and Expenditures

Deliveries To Date	Plan To Date	Actual To Date	Total Quantity	Percent Delivered
Development	0	0	77	0.00%
Production	0	0	813	0.00%
Total Program Quantities Delivered	0	0	890	0.00%

Expenditures and Appropriations (TY \$M)			
Total Acquisition Cost	1451.8	Years Appropriated	2
Expenditures To Date	11.2	Percent Years Appropriated	22.22%
Percent Expended	0.77%	Appropriated to Date	161.8
Total Funding Years	9	Percent Appropriated	11.14%

The above data is current as of 3/31/2013.

Operating and Support Cost

B61 Mod 12 LEP TKA

Assumptions and Ground Rules

Cost Estimate Reference:

Source of Estimate: Service Cost Position (SCP)
Date Approved: October 19, 2012

Sustainment Strategy:

- All dollars were estimated in Base Year 2012
- Total Operations and Maintenance Cost = \$125.6M
- Total Quantity = 824
 - Production quantity: 813
 - Trainers in Research, Development, Test, and Evaluation (RDT&E) quantity: 11
- Service Life = 20 years
- Average Annual Operations and Maintenance Unit Cost = \$.008M
 - Calculation: $\$125.6M/824/20$
- Used OSD CAIG O&S Cost Estimating Guide, October 2007, for WBS Structure and Content
- Utilized AFCAA (Eglin Location) Risk Template for cost risk assessment
- Estimate assumes wooden round -- Production Lifetime Sparing Concept
- Contractor services retained for failure analysis, test support, logistical support, destructive testing, etc.
- Projected contractor labor rates are through FY 2040
 - Used 4% increase in base pay rate to account for differences in contractor inflation vs. OSD published inflation
- No nuclear certification required for TKA SATS
- CONUS shipping costs for WSEP assets paid by DOE
- Personnel at OCONUS locations exist solely to support this weapon

AFCAA: Air Force Cost Analysis Agency

CAIG: Cost Analysis Improvement Group

CONUS: Continental United States

DOE: Department of Energy

O&S: Operating and Support

OCONUS: Outside of the Continental United States

OSD: Office of the Secretary of Defense

TKA: Tailkit Assembly

SATS: Stand Alone Test Sets

WBS: Work Breakdown Structure

WSEP: Weapons System Evaluation Program

Antecedent Information:

None

Unitized O&S Costs BY2012 \$K		
Cost Element	B61 Mod 12 LEP TKA Average Annual Cost Per TKA	No Antecedent (Antecedent) None
Unit-Level Manpower	0.069	0.000
Unit Operations	0.001	0.000
Maintenance	0.005	0.000
Sustaining Support	0.015	0.000
Continuing System Improvements	0.000	0.000
Indirect Support	0.042	0.000
Other	0.000	0.000
Total	0.132	--

Unitized Cost Comments:

Total Operating and Support Cost: \$2,283.3M (in Base Year 2012 dollars)

Average Annual Unitized Cost = (Total Operating and Support Cost/824)/21 years

	Total O&S Cost \$M			
	Current Development APB Objective/Threshold		Current Estimate	
	B61 Mod 12 LEP TKA		B61 Mod 12 LEP TKA	No Antecedent (Antecedent)
Base Year	2283.3	2511.6	2283.3	N/A
Then Year	2887.3	N/A	2887.3	N/A

Total O&S Costs Comments:

None

Disposal Costs

\$0.120K in Base Year (BY) 2012 dollars

\$0.190K in Then Year (TY) dollars