



Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-365



COBRA JUDY REPLACEMENT

As of December 31, 2010

Defense Acquisition Management
Information Retrieval
(DAMIR)

UNCLASSIFIED

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Program Information

Designation And Nomenclature (Popular Name)

COBRA JUDY REPLACEMENT (CJR)

DoD Component

Navy

Responsible Office

Responsible Office

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Date Assigned February 11, 2009

References

SAR Baseline (Development Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated October 1, 2003

Approved APB

DAE Approved Acquisition Program Baseline (APB) dated February 25, 2008

Mission and Description

The COBRA JUDY REPLACEMENT (CJR) program replaces the capability of the current United States Naval Ship (USNS) Observation Island (OBIS), its COBRA JUDY radar suite, and other mission essential systems. CJR will fulfill the same mission as the current COBRA JUDY/OBIS. CJR will collect foreign ballistic missile data in support of international treaty verification.

CJR represents an integrated mission solution: ship, radar suite, and other Mission Equipment (ME). CJR will consist of a radar suite including active S-Band and X-Band Phased Array Radars (PARs), weather equipment, and a Mission Communications Suite (MCS). The radar suite will be capable of autonomous volume search and acquisition. The S-Band PAR will serve as the primary search and acquisition sensor and will be capable of tracking and collecting data on a large number of objects in a multi-target complex. The X-Band PAR will provide very high-resolution data on particular objects of interest. Both systems will employ a variety of waveforms and bandwidths to provide operational flexibility and high quality data collection. The Common Back-End (CBE) controls the radars and provides overall data and signal processing and data recording functions for the CJR ME. The CBE provides interfaces to the operator, external systems via the MCS and weather data via weather satellite. The CBE also provides pre-and post-mission processing software for mission profile generation, search volume file generation, scenario generation and mission training, data analysis, mission playback and post-mission reporting. CJR's ME is projected to have a 30-year operating system life-cycle.

The OBIS replacement platform, USNS Howard O. Lorenzen (Missile Range Instrumentation Ship (T-AGM) 25), is a commercially designed and constructed ship, classed to American Bureau of Shipping standards, certified by the U.S. Coast Guard in accordance with Safety of Life at Sea, and in compliance with other commercial regulatory body rules and regulations, and other Military Sealift Command (MSC) standards. The ship will be U.S. flagged, operated by a Merchant Marine or MSC Civilian Mariner crew, with a minimum of military specifications. The ship is projected to have a 30-year operating system life-cycle.

The U.S. Navy will procure one CJR for the U.S. Air Force using only Research, Development, Test and Evaluation funding. CJR will be turned over to the U.S. Air Force at Initial Operational Capability for all operations and maintenance support.

Executive Summary

Program activities are currently focused on installation and final integration of the X and S-band radars onto the ship at Kiewit Offshore Services (KOS) following completion of radar production and initial Integration and Test (I&T) at Raytheon and Northrop Grumman (NG). Raytheon and its subcontractors have completed I&T of the X-band radar and X/S ancillary equipment at KOS. The S-band radar arrived at KOS on February 19, 2011. The United States Naval Ship (USNS) Howard O. Lorenzen (Missile Range Instrumentation Ship (T-AGM) 25) completed at-sea Builder's Trials (BT) in March 2011. The ship is expected to depart VT Halter Marine (VTHM) and arrive at KOS in the third quarter of Fiscal Year 2011 (3QFY11).

Highlights of program progress since the previous Selected Acquisition Report follow.

X-Band Radar

Raytheon completed production and I&T of the X-band radar halves at its Sudbury, Massachusetts, facility in June 2010. Raytheon delivered the array halves to KOS in July 2010, mated and aligned them. KOS successfully installed the X-band array into the Antenna Pedestal Back Structure (APBS) in August 2010. Raytheon's subcontractor, General Dynamics Sitcom Technologies, completed pedestal acceptance testing at KOS in September 2010. Raytheon conducted X-band final array mechanical alignment in October 2010. X-band outfitting at KOS has progressed with the installation of interconnect cabling into the APBS. Raytheon installed the in-port shield into the APBS and operationally tested it in November 2010. Raytheon installed calibration horns, followed by the radome cover, and Raytheon's subcontractor, St. Gobain, completed final tensioning of the radome in November 2010.

S-Band Radar

NG completed high power test rework and retest of all Multiple Subarray Assemblies (MSAs) in July 2010, populated the S-band antenna in its near field range with the MSAs, and successfully completed verification and validation test in December 2010. The S-band radar departed NG's Linthicum, Maryland facility on February 9, 2011, and arrived at the KOS facility in Corpus Christi, Texas on February 19, 2011.

Common Back-End (CBE)

Raytheon has completed all CBE software development through code and unit test, with CBE software integration 100% complete. Raytheon successfully completed formal qualification test of the CBE software in September 2010.

Mission Communications Suite (MCS)

Space and Naval Warfare Systems Command personnel installed topside MCS equipment onto the ship at the VTHM facility in Pascagoula, Mississippi. The below deck communications equipment will be installed at KOS in late FY 2011.

USNS Howard O. Lorenzen (T-AGM 25)

T-AGM 25 was christened the Howard O. Lorenzen and launched in June 2010. VTHM conducted builder's dock trials and at-sea BT in January and March 2011. The ship is currently 95% complete with Acceptance Trials (AT) and delivery planned for 3QFY11.

Slower than planned progress in cable installation, system test, and compartment completion by VTHM has delayed delivery of the ship until 3QFY11. Late delivery will delay the planned start of Mission Equipment (ME) installation/integration onboard the ship, subsequent developmental test/operational test (DT/OT) and Initial Operational

Capability (IOC). The program office is working to mitigate impact to DT/OT and IOC by commencing start of ME installation at KOS upon completion of AT and prior to ship contractual delivery. The Government will accept delivery of the ship at KOS vice VTHM. Additional mitigation steps include installing and integrating the radar and MCS below deck equipment concurrently at KOS, and conducting Military Sealift Command crew familiarization at KOS vice VTHM. IOC remains in FY 2013.

President's Budget

Sufficient funds to complete the program were included in the FY 2011 President's Budget (PB). The FY 2012 PB maintains these funds. A proposed change to the Acquisition Program Baseline (APB) reflecting the budget and the revised IOC was approved by the Assistant Secretary of the Navy for Research, Development and Acquisition in February 2011. The APB is in-process for approval.

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

Threshold Breaches

APB Breaches

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

Explanation of Breach

The Program Manager (PM) currently estimates a three-month slip in Initial Operational Capability (IOC) from the June 2013 threshold date to September 2013. This schedule breach is due to late ship delivery, which delays radar/ship integration, and subsequent technical/operational evaluation, ultimately delaying IOC.

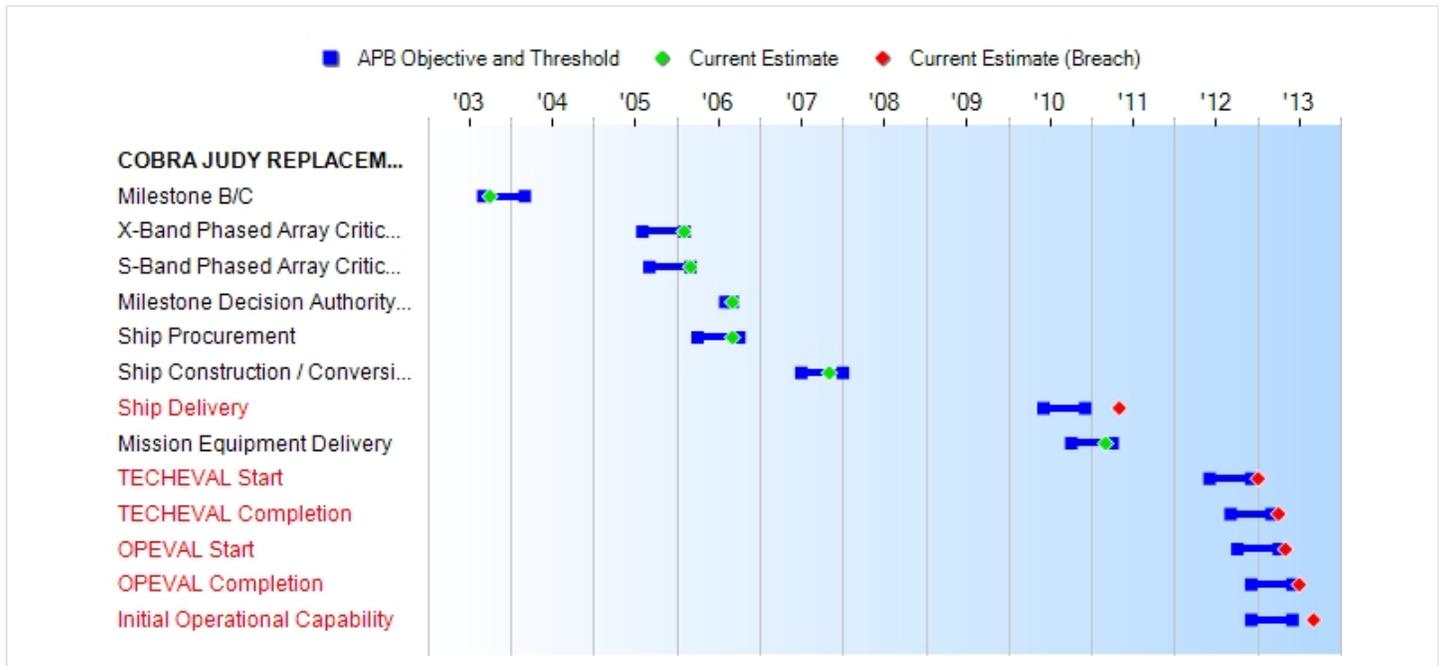
The Program Acquisition Unit Cost (PAUC) breach reflects the impact of late ship delivery, mission equipment performance to date, and cost trends for the remainder of the program. Sufficient funding to the revised PAUC was added in the FY 2011 President's Budget (PB 2011), and this funding remains stable in PB 2012. This funding is sufficient to complete the program.

Nunn-McCurdy Breaches

Current UCR Baseline		
	PAUC	None
	APUC	None
Original UCR Baseline		
	PAUC	None
	APUC	None

The PM has developed a recommended Acquisition Program Baseline (APB) change reflecting the current budget/PAUC and schedule milestones. The Assistant Secretary of the Navy, Research, Development and Acquisition approved the recommended APB in February 2011. The APB is in-process for approval.

Schedule



Milestones	SAR Baseline Dev Est	Current APB Development Objective/Threshold		Current Estimate
Milestone B/C	SEP 2003	SEP 2003	MAR 2004	OCT 2003
X-Band Phased Array Critical Design Review	AUG 2005	AUG 2005	FEB 2006	FEB 2006
S-Band Phased Array Critical Design Review	SEP 2005	SEP 2005	MAR 2006	MAR 2006
Milestone Decision Authority (MDA) Review	SEP 2005	AUG 2006	SEP 2006	SEP 2006
Ship Procurement	APR 2006	APR 2006	OCT 2006	SEP 2006
Ship Construction / Conversion Start	JUL 2007	JUL 2007	JAN 2008	NOV 2007
Ship Delivery	DEC 2009	JUN 2010	DEC 2010	MAY 2011 ¹ (Ch-1)
Mission Equipment Delivery	JUN 2009	OCT 2010	APR 2011	MAR 2011
TECHEVAL Start	DEC 2009	JUN 2012	DEC 2012	JAN 2013 ¹ (Ch-1)
TECHEVAL Completion	JUN 2010	SEP 2012	MAR 2013	APR 2013 ¹ (Ch-1)
OPEVAL Start	AUG 2010	OCT 2012	APR 2013	MAY 2013 ¹ (Ch-1)
OPEVAL Completion	FEB 2011	DEC 2012	JUN 2013	JUL 2013 ¹ (Ch-1)
Initial Operational Capability	JUN 2011	DEC 2012	JUN 2013	SEP 2013 ¹ (Ch-1)

¹APB Breach

Acronyms And Abbreviations

OPEVAL - Operational Evaluation
TECHEVAL - Technical Evaluation

Change Explanations

(Ch-1) Ship Delivery was changed from Dec 2010 to May 2011 due to late completion of system test and compartment closeout. The following milestones are impacted by late ship delivery:
Technical Evaluation (TECHEVAL) Start was changed from Nov 2012 to Jan 2013.
TECHEVAL Complete was changed from Mar 2013 to Apr 2013.
Operational Evaluation (OPEVAL) Start was changed from Apr 2013 to May 2013.
OPEVAL Complete was changed from Jun 2013 to Jul 2013.
Initial Operational Capability was changed from Jun 2013 to Sep 2013.

Performance

Characteristics	SAR Baseline Dev Est	Current APB Development Objective/Threshold		Demonstrated Performance	Current Estimate
Propulsion Plant, Sustained and Loiter Speed	Ship Duration = 12,000 NM. The ship shall be capable of traveling 12,000 NM at 20 knots sustained speed	Ship Duration = 12,000 NM. The ship shall be capable of traveling 12,000 NM at 20 knots sustained speed	Ship Duration = 12,000 NM. The ship shall be capable of traveling 12,000 NM at 20 knots sustained speed	20 knots speed was obtained during Builder's Trials, which completed in March 2011.	Ship Duration = 12,000 NM. The ship shall be capable of traveling 12,000 NM at 20 knots sustained speed
Mission Capable Rates and Inherent Availability (Ai)	System Availability = 90%. In order to achieve the FMC Ai requirement, the CJR system must be available at least 90% of the time. FMC for the CJR is defined as both the platform and mission equipment functioning as required to achieve the operational mission	System Availability = 90%. In order to achieve the FMC Ai requirement, the CJR system must be available at least 90% of the time. FMC for the CJR is defined as both the platform and mission equipment functioning as required to achieve the operational mission	System Availability = 90%. In order to achieve the FMC Ai requirement, the CJR system must be available at least 90% of the time. FMC for the CJR is defined as both the platform and mission equipment functioning as required to achieve the operational mission	TBD	System Availability = 90%. In order to achieve the FMC Ai requirement, the CJR system must be available at least 90% of the time. FMC for the CJR is defined as both the platform and mission equipment functioning as required to achieve the operational mission
Interoperability - All top-level Informational Exchange Requirements (IERs) will be satisfied to the standards identified in the threshold and objective values in CJR Top-Level Information Exchange Requirements Matrix	100% of all Top-Level IERs	100% of all Top-Level IERs	100% of Top-Level IERs designated critical (IERs 1-5)	TBD	100% of all Top-Level IERs

Requirements Source: The Joint Requirements Oversight Council approved the CJR ORD, USAF (CAF) 315-02, on April 24, 2003.

Acronyms And Abbreviations

FMC - Full Mission Capability

NM - Nautical Mile

TBD - To Be Determined

Change Explanations

None

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

Track To Budget**RDT&E**

APPN 1319	BA 07	PE 0303901N	(Navy)
	Project 4003	SIRIUS	
APPN 1319	BA 07	PE 0305149N	(Navy)
	Project 4021	COBRA JUDY	

Cost and Funding

Cost Summary

Total Acquisition Cost and Quantity

Appropriation	BY2003 \$M			BY2003 \$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	1365.0	1365.0	1501.5	1527.6 ¹	1464.0	1464.0	1714.2
Procurement	0.0	0.0	--	0.0	0.0	0.0	0.0
Flyaway	0.0	--	--	0.0	0.0	--	0.0
Recurring	0.0	--	--	0.0	0.0	--	0.0
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	1365.0	1365.0	N/A	1527.6	1464.0	1464.0	1714.2

¹ APB Breach

Quantity	SAR Baseline Dev Est	Current APB Development	Current Estimate
RDT&E		1	1
Procurement		0	0
Total		1	1

Cost and Funding

Funding Summary

Appropriation and Quantity Summary FY2012 President's Budget / December 2010 SAR (TY\$ M)

Appropriation	Prior	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	To Complete	Total
RDT&E	1529.5	71.0	80.6	33.1	0.0	0.0	0.0	0.0	1714.2
Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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 2012 Total	1529.5	71.0	80.6	33.1	0.0	0.0	0.0	0.0	1714.2
PB 2011 Total	1528.9	71.0	79.5	33.3	0.0	0.0	0.0	0.0	1712.7
Delta	0.6	0.0	1.1	-0.2	0.0	0.0	0.0	0.0	1.5

The U.S. Navy (USN) will use Navy Research, Development, Test and Evaluation funding to develop and deliver CJR. The USN will not receive Procurement, Military Construction, or Operations and Maintenance funding. CJR will be transitioned to the U.S. Air Force at Initial Operational Capability for all operations and maintenance support.

Quantity	Undistributed	Prior	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	To Complete	Total
Development	1	0	0	0	0	0	0	0	0	1
Production	0	0	0	0	0	0	0	0	0	0
PB 2012 Total	1	0	0	0	0	0	0	0	0	1
PB 2011 Total	1	0	0	0	0	0	0	0	0	1
Delta	0	0	0	0	0	0	0	0	0	0

Cost and Funding

Annual Funding By Appropriation

Annual Funding TY\$

1319 | RDT&E | Research, Development, Test, and Evaluation, Navy

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
2003	--	--	--	--	--	--	101.0
2004	--	--	--	--	--	--	126.0
2005	--	--	--	--	--	--	175.1
2006	--	--	--	--	--	--	236.8
2007	--	--	--	--	--	--	263.2
2008	--	--	--	--	--	--	267.8
2009	--	--	--	--	--	--	243.8
2010	--	--	--	--	--	--	115.8
2011	--	--	--	--	--	--	71.0
2012	--	--	--	--	--	--	80.6
2013	--	--	--	--	--	--	33.1
Subtotal	1	--	--	--	--	--	1714.2

Annual Funding BY\$**1319 | RDT&E | Research, Development, Test, and Evaluation, Navy**

Fiscal Year	Quantity	End Item Recurring Flyaway BY 2003 \$M	Non End Item Recurring Flyaway BY 2003 \$M	Non Recurring Flyaway BY 2003 \$M	Total Flyaway BY 2003 \$M	Total Support BY 2003 \$M	Total Program BY 2003 \$M
2003	--	--	--	--	--	--	99.8
2004	--	--	--	--	--	--	121.1
2005	--	--	--	--	--	--	164.0
2006	--	--	--	--	--	--	215.0
2007	--	--	--	--	--	--	233.3
2008	--	--	--	--	--	--	233.1
2009	--	--	--	--	--	--	209.7
2010	--	--	--	--	--	--	98.5
2011	--	--	--	--	--	--	59.6
2012	--	--	--	--	--	--	66.6
2013	--	--	--	--	--	--	26.9
Subtotal	1	--	--	--	--	--	1527.6

Low Rate Initial Production

Low Rate Initial Production does not apply to the CJR program.

Foreign Military Sales

None

Nuclear Cost

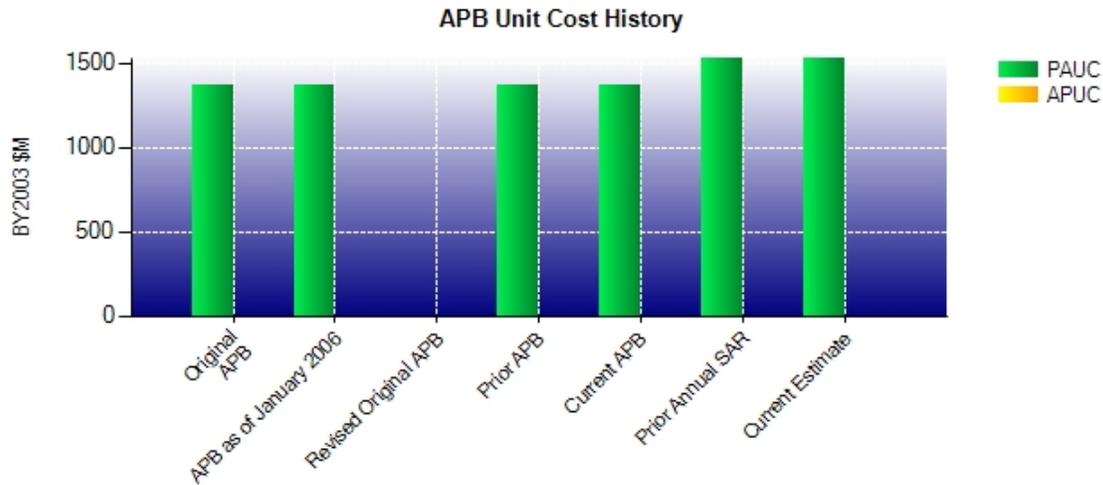
None

Unit Cost**Unit Cost Report**

	BY2003 \$M	BY2003 \$M	
Unit Cost	Current UCR Baseline (FEB 2008 APB)	Current Estimate (DEC 2010 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	1365.0	1527.6	
Quantity	1	1	
Unit Cost	1365.000	1527.600	+11.91
Average Procurement Unit Cost (APUC)			
Cost	--	0.0	
Quantity	--	0	
Unit Cost	--	--	--

	BY2003 \$M	BY2003 \$M	
Unit Cost	Original UCR Baseline (OCT 2003 APB)	Current Estimate (DEC 2010 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	1365.0	1527.6	
Quantity	1	1	
Unit Cost	1365.000	1527.600	+11.91
Average Procurement Unit Cost (APUC)			
Cost	--	0.0	
Quantity	--	0	
Unit Cost	--	--	--

Unit Cost History



	Date	BY2003 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	OCT 2003	1365.000	N/A	1464.000	N/A
APB as of January 2006	OCT 2003	1365.000	N/A	1464.000	N/A
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	MAR 2007	1365.000	N/A	1464.000	N/A
Current APB	FEB 2008	1365.000	N/A	1464.000	N/A
Prior Annual SAR	DEC 2009	1526.300	N/A	1712.700	N/A
Current Estimate	DEC 2010	1527.600	N/A	1714.200	N/A

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	
1464.000	51.200	0.000	36.300	0.000	162.700	0.000	0.000	250.200	1714.200

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

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

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	SEP 2003	N/A	OCT 2003
Milestone C	N/A	N/A	N/A	N/A
IOC	N/A	JUN 2011	N/A	SEP 2013
Total Cost (TY \$M)	N/A	1464.0	N/A	1714.2
Total Quantity	N/A	1	N/A	1
Prog. Acq. Unit Cost (PAUC)	N/A	1464.000	N/A	1714.200

On October 1, 2003, the Milestone Decision Authority approved Milestone B/C and allowed the program to enter into the System Development and Demonstration and Production phases.

Cost Variance**Cost Variance Summary**

Summary Then Year \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Dev Est)	1464.0	--	--	1464.0
Previous Changes				
Economic	+51.4	--	--	+51.4
Quantity	--	--	--	--
Schedule	+36.3	--	--	+36.3
Engineering	--	--	--	--
Estimating	+161.0	--	--	+161.0
Other	--	--	--	--
Support	--	--	--	--
Subtotal	+248.7	--	--	+248.7
Current Changes				
Economic	-0.2	--	--	-0.2
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	+1.7	--	--	+1.7
Other	--	--	--	--
Support	--	--	--	--
Subtotal	+1.5	--	--	+1.5
Total Changes	+250.2	--	--	+250.2
CE - Cost Variance	1714.2	--	--	1714.2
CE - Cost & Funding	1714.2	--	--	1714.2

Summary Base Year 2003 \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Dev Est)	1365.0	--	--	1365.0
Previous Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	+30.0	--	--	+30.0
Engineering	--	--	--	--
Estimating	+131.3	--	--	+131.3
Other	--	--	--	--
Support	--	--	--	--
Subtotal	+161.3	--	--	+161.3
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	+1.3	--	--	+1.3
Other	--	--	--	--
Support	--	--	--	--
Subtotal	+1.3	--	--	+1.3
Total Changes	+162.6	--	--	+162.6
CE - Cost Variance	1527.6	--	--	1527.6
CE - Cost & Funding	1527.6	--	--	1527.6

Previous Estimate: December 2009

RDT&E	\$M	
	Base Year	Then Year
Current Change Explanations		
Revised escalation indices. (Economic)	N/A	-0.2
Budget adjustment in FY 2010 to fund program to Cost Assessment and Program Evaluation (CAPE) Independent Cost Estimate (ICE). (Estimating)	+0.4	+0.6
Budget adjustment in FY 2012 to fund program to CAPE ICE. (Estimating)	+1.0	+1.2
Budget decrease due to Navy withholds in FY 2013. (Estimating)	-0.1	-0.1
RDT&E Subtotal	+1.3	+1.5

Contracts

Appropriation: RDT&E

Contract Name	Mission Equipment (ME)
Contractor	Raytheon Company
Contractor Location	Sudbury, MA 01776-3375
Contract Number, Type	N00024-04-C-5340, CPIF
Award Date	December 18, 2003
Definitization Date	May 04, 2007

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
1046.0	N/A	1	1133.8	N/A	1	1175.5	1178.2

Variance	Cost Variance	Schedule Variance
Cumulative Variances To Date (1/11/2011)	-43.5	-7.3
Previous Cumulative Variances	-10.0	-13.1
Net Change	-33.5	+5.8

Cost And Schedule Variance Explanations

CONTRACT COST AND PERFORMANCE DATA CONTAINED IN THIS SECTION IS CONSIDERED BUSINESS SENSITIVE.

The current Contract Performance Report dated January 31, 2011 reflects data as of December 31, 2010.

The net unfavorable cost variance is due to S-Band Transmit/Receive Module (TRM) failure mode investigations and associated rework, and software cost variance as a result of increased staffing due to higher than expected defect rates. The net favorable schedule variance is due to completion of X and S-band receiver/exciters and S-Band antenna manufacture and acceptance testing, which closed TRM issues.

Contract Comments

This contract is over 90% complete and will no longer be reported.

The initial price reflects the not-to-exceed estimate from the undefinitized, letter contract awarded in December 2003. This contract was renegotiated in May 2007 as part of the program restructure, and was changed from Cost-Plus-Award-Fee to Cost-Plus-Incentive-Fee (CPIF) type. The current price reflects the renegotiated contract cost, including contract modifications to date.

The Contractor and Program Manager (PM) Estimates at Completion (EACs) are impacted by late delivery of the ship as Government Furnished Property (GFP). The Procuring Contracting Officer (PCO) has issued a unilateral modification to this contract changing the ship GFP delivery date. The PCO will complete negotiations with Raytheon on the cost of the delay no later than the third quarter of Fiscal Year 2011. The PM estimates that there is sufficient funding to accommodate a negotiated adjustment to contract cost due to GFP delays.

Appropriation: RDT&E

Contract Name **T-AGM 25 Ship**
 Contractor VT Halter Marine, Inc.
 Contractor Location Pascagoula, MS 39568-1328
 Contract Number, Type N00024-06-C-2215, FFP
 Award Date September 26, 2006
 Definitization Date September 26, 2006

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
199.2	N/A	1	203.1	N/A	1	203.1	203.1

Cost And Schedule Variance Explanations

Cost and Schedule variance reporting is not required on this FFP contract.

Contract Comments

This contract is over 90% complete and will no longer be reported.

The difference between the initial and current contract price is the current price includes incorporation of approved engineering change proposals and spares.

Deliveries and Expenditures

Deliveries To Date	Plan To Date	Actual To Date	Total Quantity	Percent Delivered
Development	0	0	1	0.00%
Production	0	0	0	--
Total Program Quantities Delivered	0	0	1	0.00%

Expenditures and Appropriations (TY \$M)			
Total Acquisition Cost	1714.2	Years Appropriated	9
Expenditures To Date	1494.0	Percent Years Appropriated	81.82%
Percent Expended	87.15%	Appropriated to Date	1600.5
Total Funding Years	11	Percent Appropriated	93.37%

Expenditures to date are as of March 18, 2011.

Operating and Support Cost

Assumptions And Ground Rules

Annual Operating and Support (O&S) costs for CJR reflect the Cost Assessment and Program Evaluation Independent Cost Estimate of May 2003, which is reflected in the Milestone B/C Acquisition Program Baseline. Total O&S costs are projected for a 30-year operating system life cycle.

Annual O&S costs from the antecedent system, the current COBRA JUDY (CJ) program owned and managed by the U.S. Air Force, represent an average of actual costs from Fiscal Year (FY) 2003-2010, and estimated costs for FY 2011. Total O&S costs for the antecedent system were unavailable.

Costs BY2003 \$M		
Cost Element	COBRA JUDY REPLACEMENT Annual Cost	COBRA JUDY Annual Cost
Unit-Level Manpower	11.064	12.955
Unit Operations	5.582	7.663
Maintenance	5.742	12.321
Sustaining Support	2.543	1.285
Continuing System Improvements	4.833	1.435
Indirect Support	0.032	0.875
Other	0.900	1.802
Total Unitized Cost (Base Year 2003 \$)	30.696	38.336

Total O&S Costs \$M	COBRA JUDY REPLACEMENT	COBRA JUDY
Base Year	950.2	--
Then Year	1522.8	--