



Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-537



NAS

As of December 31, 2011

Defense Acquisition Management
Information Retrieval
(DAMIR)

UNCLASSIFIED

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Program Information

Designation And Nomenclature (Popular Name)

National Airspace System (NAS)

DoD Component

Air Force

Joint Participants

Army; Navy

Responsible Office

Responsible Office

Col Jimmie D. Schuman, Jr

ESC/HBA

75 Vandenberg Drive

Hanscom AFB

Bedford, MA 01731-2103

Jimmie.Schuman@hanscom.af.mil**Phone** 781-225-5479**Fax** 781-225-2433**DSN Phone** 845-5479**DSN Fax** 845-2433**Date Assigned** August 14, 2009

References

SAR Baseline (Production Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated June 7, 2005

Approved APB

Air Force Acquisition Executive (AFAE) Approved Acquisition Program Baseline (APB) dated July 12, 2006

Mission and Description

The DoD National Airspace System (NAS) is comprised of three systems: the Digital Airport Surveillance Radar (DASR), the DoD Advanced Automation System (DAAS), also known as the Standard Terminal Automation Replacement System (STARS) within the Federal Aviation Administration (FAA), and the Voice Communication Switching System (VCSS). The DoD NAS program is modernizing the DoD radar approach control facilities in parallel with the FAA. The DoD NAS program provides systems and facilities compatible/interoperable with the FAA modernization, prevents DoD flight delays and cancellations, continues DoD's access into Special Use Airspace, provides transparent services to military and civil aircraft, replaces aging DoD Air Traffic Control (ATC) systems, and increases flight safety. NAS is a Non-Developmental Item (NDI) acquisition. DoD will upgrade voice, data, and sensor systems as well as facility configurations and operations concepts to provide continued quantity and quality of ATC services to the aviation community. To supplement the DAAS, the DoD procured the Airfield Automation System (AFAS) to integrate weather, airport environmental data, and airfield equipment status at air traffic control positions. DoD military ATC and fighting/flying readiness will be maintained.

Executive Summary

The National Airspace System (NAS) program continued full scale production of Digital Airport Surveillance Radars (DASR) and DoD Advanced Automation Systems (DAAS) for the Air Force, Army and Navy in Calendar Year (CY) 2011.

Air Force Operational Test & Evaluation Center (AFOTEC) completed NAS Follow-on Operational Test and Evaluation (FOT&E) in 2009; the NAS system was deemed effective and suitable. The Director, Operational Test and Evaluation (DOT&E), however, decided to keep NAS on its oversight list until Force Development Evaluation (FDE) of the DASR Advanced Signal Data Processor (ASDP) Diminishing Manufacturing Source (DMS) replacement, the DASR Monopulse Secondary Surveillance Radar (MSSR) DMS replacement, and the NAS Automated Protocol Exchanger (APEX) were completed by the Air Force Flight Standards Agency (AFFSA). AFFSA completed the APEX assessment in November 2010 and the ASDP & MSSR assessments in July 2011 at Lakenheath Air Station. The final FDE report, dated August 31, 2011, found NAS to be effective, suitable, and mission capable. AFFSA reported these findings to OSD and, on October 12, 2011, OSD stated that NAS will not appear on the formal OSD T&E Oversight list when it is published for distribution in January 2012.

NAS Program Office released an FAA-sponsored Request for Proposal in October 2011 to fund the Non Recurring Engineering (NRE) required to integrate the DASR Configuration 5 (i.e., mobile ASR-11) into the DASR production baseline. The FAA plans to procure 2 systems, one each in FY 2014 and FY 2015.

The DASR Phase I contract reached the end of its period of performance on September 30, 2011.

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"/>
Unit Cost	PAUC	<input type="checkbox"/>
	APUC	<input type="checkbox"/>

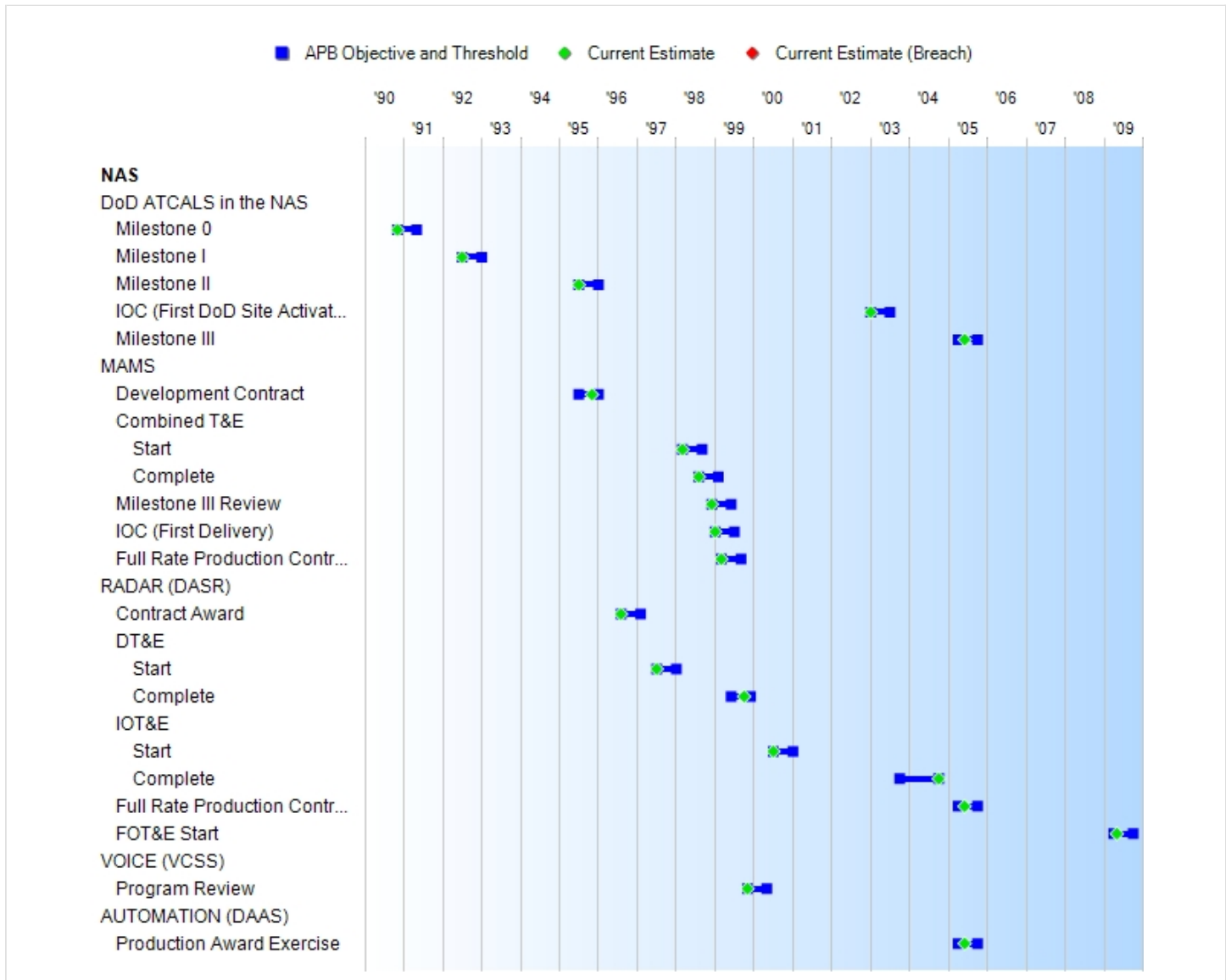
Nunn-McCurdy Breaches**Current UCR Baseline**

PAUC	None
APUC	None

Original UCR Baseline

PAUC	None
APUC	None

Schedule



Milestones	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Current Estimate
DoD ATCALs in the NAS				
Milestone 0	NOV 1990	NOV 1990	MAY 1991	NOV 1990
Milestone I	JUL 1992	JUL 1992	JAN 1993	JUL 1992
Milestone II	JUL 1995	JUL 1995	JAN 1996	JUL 1995
IOC (First DoD Site Activation)	JAN 2003	JAN 2003	JUL 2003	JAN 2003
Milestone III	APR 2005	APR 2005	OCT 2005	JUN 2005
MAMS				
Development Contract	JUL 1995	JUL 1995	JAN 1996	NOV 1995
Combined T&E				
Start	MAR 1998	MAR 1998	SEP 1998	MAR 1998
Complete	AUG 1998	AUG 1998	FEB 1999	AUG 1998
Milestone III Review	DEC 1998	DEC 1998	JUN 1999	DEC 1998
IOC (First Delivery)	JAN 1999	JAN 1999	JUL 1999	JAN 1999
Full Rate Production Contract Award	MAR 1999	MAR 1999	SEP 1999	MAR 1999
RADAR (DASR)				
Contract Award	AUG 1996	AUG 1996	FEB 1997	AUG 1996
DT&E				
Start	JUL 1997	JUL 1997	JAN 1998	JUL 1997
Complete	JUN 1999	JUN 1999	DEC 1999	OCT 1999
IOT&E				
Start	JUL 2000	JUL 2000	JAN 2001	JUL 2000
Complete	OCT 2003	OCT 2003	OCT 2004	OCT 2004
Full Rate Production Contract Award	APR 2005	APR 2005	OCT 2005	JUN 2005
FOT&E Start	JUN 2006	APR 2009	OCT 2009	MAY 2009
VOICE (VCSS)				
Program Review	NOV 1999	NOV 1999	MAY 2000	NOV 1999
AUTOMATION (DAAS)				
Production Award Exercise	APR 2005	APR 2005	OCT 2005	JUN 2005

Acronyms And Abbreviations

ATCALs - Air Traffic Control and Landing Systems
 DAAS - DOD Advanced Automation System
 DASR - Digital Airport Surveillance Radar
 DT&E - Developmental Test & Evaluation
 FOT&E - Follow-on Operational Test & Evaluation
 IOC - Initial Operational Capability
 IOT&E - Initial Operational Test and Evaluation
 MAMS - Military Airspace Management System
 VCSS - Voice Communications Switching System

Change Explanations

None

Performance

Characteristics	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Demonstrated Performance	Current Estimate
DOD ATCALs IN THE NAS					
Inter/Intrafacility Data Transfer					
Auto Transfer of Position Track Data	IAW ICD	IAW ICD	IAW ICD	IAW ICD	IAW ICD
Electronic Inter-facility Transfer of Flight Plans	IAW ICD	IAW ICD	IAW ICD	IAW ICD	IAW ICD
Aircraft Tracked Medium (LCF)	900	900	250	422	422
Radar Subclutter Visibility (dB)	55	55	42	47	47
Net-Ready	100% of applicable, approved key interface profiles	100% of applicable, approved key interface profiles	With FAA agreement, 100% of enterprise-level or critical applicable, approved key interface profiles	TBD	With FAA agreement, 100% of enterprise-level or critical applicable, approved key interface profiles
MAMS					
Conflict Identification	100% of conflicts identified; 85% of conflicts identified	N/A	N/A	TBD	N/A
Interface with FAA	Transmittal Time for 85% of messages between Scheduler and FAA < or = 5 (min)	N/A	N/A	TBD	N/A
Reporting	Processing Time of Utilization Data Requests	N/A	N/A	TBD	N/A

Requirements Source: Operational Requirements Document (ORD) for DoD Air Traffic Control and Landing Systems (ATCALs) in the National Airspace System (NAS) dated March 16, 2005.

Acronyms And Abbreviations

AFOTEC - Air Force Operational Test and Evaluation Center
ATCALs - Air Traffic Control and Landing Systems
dB - decibels
FAA - Federal Aviation Administration
IAW - In Accordance With
ICD - Interface Control Document
LCF - Local Control Facility
MAMS - Military Airspace Management System
MOT&E - Multiservice Operational Test and Evaluation
TBD - To Be Determined

Change Explanations

None

Track To Budget**RDT&E**

APPN 1319	BA 05	PE 0604504N	(Navy)	
	Project 1657	Navy NAS Mod/Shore Air Traffic Control Systems	(Shared)	(Sunk)
APPN 2040	BA 05	PE 0604633A	(Army)	
	Project D586	Army Airfield Support Equipment		(Sunk)
APPN 3600	BA 07	PE 0305137F	(Air Force)	
	Project 4090	National Airspace System (NAS)		(Sunk)

Procurement

APPN 1810	BA 02	PE 0204696N	(Navy)	
	ICN 284000	Navy NAS Mod	(Shared)	
APPN 1810	BA 08	PE 0204696N	(Navy)	
	ICN 9020	Navy NAS Mod	(Shared)	(Sunk)
APPN 2031	BA 04	PE 0210100A	(Army)	
	ICN AA0050	Army Airfield Support Equipment	(Shared)	
APPN 3080	BA 03	PE 0305137F	(Air Force)	
	ICN 833020	NAS		
APPN 3080	BA 05	PE 0305137F	(Air Force)	
	ICN 861900	NAS	(Shared)	(Sunk)

Cost and Funding

Cost Summary

Total Acquisition Cost and Quantity

Appropriation	BY2005 \$M			BY2005 \$M	TY \$M		
	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Current Estimate	SAR Baseline Prod Est	Current APB Production Objective	Current Estimate
RDT&E	134.0	134.0	147.4	135.1	115.8	115.8	115.8
Procurement	1239.2	1239.2	1363.1	1283.6	1305.3	1305.3	1359.9
Flyaway	845.8	--	--	930.5	894.9	--	993.6
Recurring	845.8	--	--	930.5	894.9	--	993.6
Non Recurring	0.0	--	--	0.0	0.0	--	0.0
Support	393.4	--	--	353.1	410.4	--	366.3
Other Support	327.3	--	--	291.0	342.2	--	302.6
Initial Spares	66.1	--	--	62.1	68.2	--	63.7
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	1373.2	1373.2	N/A	1418.7	1421.1	1421.1	1475.7

Quantity	SAR Baseline Prod Est	Current APB Production	Current Estimate
RDT&E		0	0
Procurement		93	92
Total		93	92

The unit of measure of this program represents National Airspace System (NAS) operational sites. A NAS site (unit) represents at least one paired DoD Advanced Automation Systems (DAAS) and Digital Airport Surveillance Radars (DASR). This definition of a unit is not representative of the typical equipment installed at a NAS site. It does not account for Voice Communication Switching System (VCSS) equipment, stand-alone DAAS equipment, or sites that have multiple DASR systems. Costs vary significantly from site to site due to particular site unique configuration requirements.

Cost and Funding

Funding Summary

Appropriation and Quantity Summary FY2013 President's Budget / December 2011 SAR (TY\$ M)

Appropriation	Prior	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	To Complete	Total
RDT&E	115.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	115.8
Procurement	1161.6	76.8	47.0	26.6	31.8	13.3	2.8	0.0	1359.9
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 2013 Total	1277.4	76.8	47.0	26.6	31.8	13.3	2.8	0.0	1475.7
PB 2012 Total	1301.1	78.2	48.0	32.3	35.7	15.6	2.7	0.0	1513.6
Delta	-23.7	-1.4	-1.0	-5.7	-3.9	-2.3	0.1	0.0	-37.9

Quantity	Undistributed	Prior	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	0
Production	0	82	6	1	1	1	1	0	0	92
PB 2013 Total	0	82	6	1	1	1	1	0	0	92
PB 2012 Total	0	82	6	1	1	1	1	0	0	92
Delta	0	0	0	0	0	0	0	0	0	0

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
1990	--	--	--	--	--	--	4.0
1991	--	--	--	--	--	--	9.9
1992	--	--	--	--	--	--	4.2
1993	--	--	--	--	--	--	6.7
1994	--	--	--	--	--	--	14.2
1995	--	--	--	--	--	--	29.5
1996	--	--	--	--	--	--	13.3
1997	--	--	--	--	--	--	11.8
1998	--	--	--	--	--	--	11.6
1999	--	--	--	--	--	--	1.8
2000	--	--	--	--	--	--	1.8
Subtotal	--	--	--	--	--	--	108.8

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

Fiscal Year	Quantity	End Item Recurring Flyaway BY 2005 \$M	Non End Item Recurring Flyaway BY 2005 \$M	Non Recurring Flyaway BY 2005 \$M	Total Flyaway BY 2005 \$M	Total Support BY 2005 \$M	Total Program BY 2005 \$M
1990	--	--	--	--	--	--	5.2
1991	--	--	--	--	--	--	12.4
1992	--	--	--	--	--	--	5.1
1993	--	--	--	--	--	--	8.0
1994	--	--	--	--	--	--	16.6
1995	--	--	--	--	--	--	33.9
1996	--	--	--	--	--	--	15.0
1997	--	--	--	--	--	--	13.1
1998	--	--	--	--	--	--	12.8
1999	--	--	--	--	--	--	2.0
2000	--	--	--	--	--	--	1.9
Subtotal	--	--	--	--	--	--	126.0

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
1990	--	--	--	--	--	--	4.0
Subtotal	--	--	--	--	--	--	4.0

Annual Funding BY\$

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

Fiscal Year	Quantity	End Item Recurring Flyaway BY 2005 \$M	Non End Item Recurring Flyaway BY 2005 \$M	Non Recurring Flyaway BY 2005 \$M	Total Flyaway BY 2005 \$M	Total Support BY 2005 \$M	Total Program BY 2005 \$M
1990	--	--	--	--	--	--	5.2
Subtotal	--	--	--	--	--	--	5.2

Annual Funding TY\$

2040 | RDT&E | Research, Development, Test, and Evaluation, Army

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
1990	--	--	--	--	--	--	3.0
Subtotal	--	--	--	--	--	--	3.0

Annual Funding BY\$

2040 | RDT&E | Research, Development, Test, and Evaluation, Army

Fiscal Year	Quantity	End Item Recurring Flyaway BY 2005 \$M	Non End Item Recurring Flyaway BY 2005 \$M	Non Recurring Flyaway BY 2005 \$M	Total Flyaway BY 2005 \$M	Total Support BY 2005 \$M	Total Program BY 2005 \$M
1990	--	--	--	--	--	--	3.9
Subtotal	--	--	--	--	--	--	3.9

Annual Funding TY\$
2031 | Procurement | Aircraft Procurement, Army

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
1997	--	--	0.7	--	0.7	--	0.7
1998	--	--	0.1	--	0.1	1.0	1.1
1999	--	--	1.6	--	1.6	0.1	1.7
2000	--	--	2.4	--	2.4	--	2.4
2001	--	--	12.0	--	12.0	1.2	13.2
2002	--	--	5.5	--	5.5	2.9	8.4
2003	1	6.7	2.4	--	9.1	4.6	13.7
2004	1	7.3	0.3	--	7.6	5.2	12.8
2005	2	7.7	1.0	--	8.7	4.8	13.5
2006	1	10.1	1.1	--	11.2	4.0	15.2
2007	2	18.6	4.8	--	23.4	4.8	28.2
2008	2	9.0	4.2	--	13.2	6.2	19.4
2009	1	19.1	4.1	--	23.2	5.1	28.3
2010	1	7.8	2.9	--	10.7	2.2	12.9
2011	--	--	3.2	--	3.2	1.3	4.5
2012	--	--	4.1	--	4.1	1.8	5.9
2013	--	--	3.8	--	3.8	1.7	5.5
2014	--	--	1.9	--	1.9	0.6	2.5
2015	--	--	2.0	--	2.0	0.9	2.9
2016	--	--	1.6	--	1.6	0.9	2.5
Subtotal	11	86.3	59.7	--	146.0	49.3	195.3

Annual Funding BY\$**2031 | Procurement | Aircraft Procurement, Army**

Fiscal Year	Quantity	End Item Recurring Flyaway BY 2005 \$M	Non End Item Recurring Flyaway BY 2005 \$M	Non Recurring Flyaway BY 2005 \$M	Total Flyaway BY 2005 \$M	Total Support BY 2005 \$M	Total Program BY 2005 \$M
1997	--	--	0.8	--	0.8	--	0.8
1998	--	--	0.1	--	0.1	1.1	1.2
1999	--	--	1.7	--	1.7	0.1	1.8
2000	--	--	2.6	--	2.6	--	2.6
2001	--	--	12.6	--	12.6	1.3	13.9
2002	--	--	5.6	--	5.6	3.1	8.7
2003	1	6.8	2.4	--	9.2	4.8	14.0
2004	1	7.2	0.3	--	7.5	5.2	12.7
2005	2	7.4	1.0	--	8.4	4.6	13.0
2006	1	9.5	1.0	--	10.5	3.8	14.3
2007	2	17.1	4.5	--	21.6	4.4	26.0
2008	2	8.2	3.8	--	12.0	5.6	17.6
2009	1	17.1	3.7	--	20.8	4.5	25.3
2010	1	6.8	2.6	--	9.4	1.9	11.3
2011	--	--	2.8	--	2.8	1.1	3.9
2012	--	--	3.5	--	3.5	1.5	5.0
2013	--	--	3.2	--	3.2	1.4	4.6
2014	--	--	1.5	--	1.5	0.5	2.0
2015	--	--	1.6	--	1.6	0.7	2.3
2016	--	--	1.3	--	1.3	0.7	2.0
Subtotal	11	80.1	56.6	--	136.7	46.3	183.0

Annual Funding TY\$

3080 | Procurement | Other Procurement, 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
1998	--	--	4.5	--	4.5	11.3	15.8
1999	--	--	5.9	--	5.9	9.2	15.1
2000	3	28.0	7.9	--	35.9	12.7	48.6
2001	2	33.7	12.0	--	45.7	14.5	60.2
2002	4	32.4	0.3	--	32.7	21.1	53.8
2003	1	13.3	2.9	--	16.2	21.5	37.7
2004	--	--	13.2	--	13.2	16.8	30.0
2005	1	28.3	2.5	--	30.8	12.8	43.6
2006	3	34.3	5.5	--	39.8	24.5	64.3
2007	6	40.6	2.2	--	42.8	26.7	69.5
2008	4	50.3	--	--	50.3	15.1	65.4
2009	6	49.9	--	--	49.9	14.5	64.4
2010	4	42.2	--	--	42.2	14.5	56.7
2011	7	74.8	--	--	74.8	16.6	91.4
2012	3	36.4	--	--	36.4	9.9	46.3
2013	--	--	17.2	--	17.2	7.4	24.6
2014	--	--	3.3	--	3.3	4.0	7.3
2015	--	--	0.2	--	0.2	2.0	2.2
2016	--	--	0.2	--	0.2	2.1	2.3
2017	--	--	0.3	--	0.3	2.5	2.8
Subtotal	44	464.2	78.1	--	542.3	259.7	802.0

Annual Funding BY\$

3080 | Procurement | Other Procurement, Air Force

Fiscal Year	Quantity	End Item Recurring Flyaway BY 2005 \$M	Non End Item Recurring Flyaway BY 2005 \$M	Non Recurring Flyaway BY 2005 \$M	Total Flyaway BY 2005 \$M	Total Support BY 2005 \$M	Total Program BY 2005 \$M
1998	--	--	4.9	--	4.9	12.3	17.2
1999	--	--	6.3	--	6.3	9.9	16.2
2000	3	29.7	8.4	--	38.1	13.4	51.5
2001	2	35.1	12.6	--	47.7	15.1	62.8
2002	4	33.2	0.3	--	33.5	21.6	55.1
2003	1	13.8	3.0	--	16.8	22.3	39.1
2004	--	--	13.4	--	13.4	17.1	30.5
2005	1	27.9	2.5	--	30.4	12.6	43.0
2006	3	32.9	5.3	--	38.2	23.4	61.6
2007	6	37.9	2.1	--	40.0	25.0	65.0
2008	4	46.1	--	--	46.1	13.8	59.9
2009	6	45.1	--	--	45.1	13.1	58.2
2010	4	37.6	--	--	37.6	12.9	50.5
2011	7	65.4	--	--	65.4	14.5	79.9
2012	3	31.3	--	--	31.3	8.5	39.8
2013	--	--	14.5	--	14.5	6.3	20.8
2014	--	--	2.7	--	2.7	3.4	6.1
2015	--	--	0.2	--	0.2	1.6	1.8
2016	--	--	0.2	--	0.2	1.6	1.8
2017	--	--	0.2	--	0.2	2.0	2.2
Subtotal	44	436.0	76.6	--	512.6	250.4	763.0

Annual Funding TY\$

1810 | Procurement | Other Procurement, 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
1998	--	--	0.9	--	0.9	1.3	2.2
1999	2	5.3	--	--	5.3	3.4	8.7
2000	5	27.0	--	--	27.0	6.4	33.4
2001	--	--	23.6	--	23.6	7.8	31.4
2002	3	13.3	--	--	13.3	5.3	18.6
2003	2	5.1	--	--	5.1	1.9	7.0
2004	1	11.3	--	--	11.3	4.6	15.9
2005	1	8.4	--	--	8.4	4.7	13.1
2006	4	14.4	--	--	14.4	3.8	18.2
2007	4	22.8	--	--	22.8	4.5	27.3
2008	1	19.9	--	--	19.9	4.1	24.0
2009	3	21.5	--	--	21.5	1.5	23.0
2010	3	27.8	--	--	27.8	1.1	28.9
2011	1	16.6	--	--	16.6	0.8	17.4
2012	3	23.4	--	--	23.4	1.2	24.6
2013	1	15.9	--	--	15.9	1.0	16.9
2014	1	15.9	--	--	15.9	0.9	16.8
2015	1	25.2	--	--	25.2	1.5	26.7
2016	1	7.0	--	--	7.0	1.5	8.5
Subtotal	37	280.8	24.5	--	305.3	57.3	362.6

Annual Funding BY\$
1810 | Procurement | Other Procurement, Navy

Fiscal Year	Quantity	End Item Recurring Flyaway BY 2005 \$M	Non End Item Recurring Flyaway BY 2005 \$M	Non Recurring Flyaway BY 2005 \$M	Total Flyaway BY 2005 \$M	Total Support BY 2005 \$M	Total Program BY 2005 \$M
1998	--	--	1.0	--	1.0	1.4	2.4
1999	2	5.7	--	--	5.7	3.7	9.4
2000	5	28.9	--	--	28.9	6.8	35.7
2001	--	--	25.0	--	25.0	8.2	33.2
2002	3	13.9	--	--	13.9	5.5	19.4
2003	2	5.2	--	--	5.2	2.0	7.2
2004	1	11.3	--	--	11.3	4.6	15.9
2005	1	8.1	--	--	8.1	4.6	12.7
2006	4	13.5	--	--	13.5	3.6	17.1
2007	4	20.9	--	--	20.9	4.2	25.1
2008	1	18.0	--	--	18.0	3.7	21.7
2009	3	19.2	--	--	19.2	1.3	20.5
2010	3	24.4	--	--	24.4	1.0	25.4
2011	1	14.3	--	--	14.3	0.7	15.0
2012	3	19.8	--	--	19.8	1.0	20.8
2013	1	13.2	--	--	13.2	0.9	14.1
2014	1	13.0	--	--	13.0	0.8	13.8
2015	1	20.3	--	--	20.3	1.2	21.5
2016	1	5.5	--	--	5.5	1.2	6.7
Subtotal	37	255.2	26.0	--	281.2	56.4	337.6

Low Rate Initial Production

	Initial LRIP Decision	Current Total LRIP
Approval Date	7/1/1995	8/8/2001
Approved Quantity	8	20
Reference	Milestone II Decision	Acquisition Decision Memorandum (ADM) dated August 8, 2001
Start Year	1995	1995
End Year	2001	2001

The LRIP quantity of eight Digital Airport Surveillance Radar (DASR) and zero DOD Advanced Automation System (DAAS) approved at MS II during July 1995 was for the radar and automation portions of NAS. Air Force approved an Acquisition Decision Memorandum (ADM) on June 30, 1997 increasing the LRIP up to 20 DASRs and 20 DAAS. Current total LRIP quantity is more than 10% of the total production quantity due to Air Force approved amendment to the ADM dated August 8, 2001, which authorized LRIP of up to 20 DASR and 13 DAAS. This keeps DoD DASR production and deployment efforts on track avoiding shutdown, restart, and retraining impacts.

Foreign Military Sales

None

Nuclear Cost

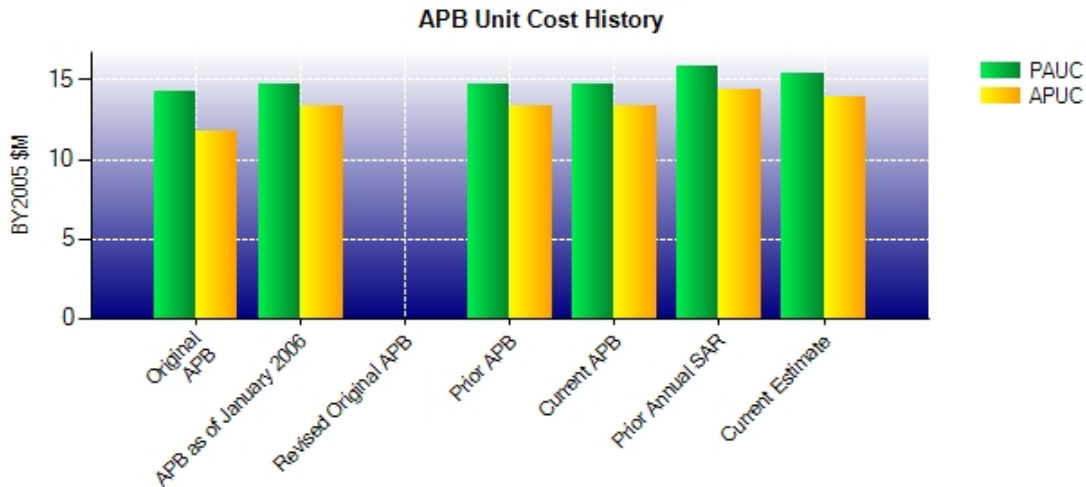
None

Unit Cost**Unit Cost Report**

	BY2005 \$M	BY2005 \$M	
Unit Cost	Current UCR Baseline (JUL 2006 APB)	Current Estimate (DEC 2011 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	1373.2	1418.7	
Quantity	93	92	
Unit Cost	14.766	15.421	+4.44
Average Procurement Unit Cost (APUC)			
Cost	1239.2	1283.6	
Quantity	93	92	
Unit Cost	13.325	13.952	+4.71

	BY2005 \$M	BY2005 \$M	
Unit Cost	Original UCR Baseline (JUL 1995 APB)	Current Estimate (DEC 2011 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	762.1	1418.7	
Quantity	53	92	
Unit Cost	14.379	15.421	+7.25
Average Procurement Unit Cost (APUC)			
Cost	629.7	1283.6	
Quantity	53	92	
Unit Cost	11.881	13.952	+17.43

Unit Cost History



	Date	BY2005 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	JUL 1995	14.270	11.789	14.926	12.711
APB as of January 2006	JUN 2005	14.766	13.325	15.281	14.035
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	JUN 2005	14.766	13.325	15.281	14.035
Current APB	JUL 2006	14.766	13.325	15.281	14.035
Prior Annual SAR	DEC 2010	15.814	14.346	16.452	15.193
Current Estimate	DEC 2011	15.421	13.952	16.040	14.782

SAR Unit Cost History

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

Initial PAUC Dev Est	Changes								PAUC Prod Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
14.926	-0.815	-3.104	1.517	1.544	-0.791	0.000	2.004	0.355	15.281

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

PAUC Prod Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
15.281	0.009	0.070	0.096	0.000	1.071	0.000	-0.486	0.759	16.040

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

Initial APUC Dev Est	Changes								APUC Prod Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
12.711	-0.747	-2.152	1.517	1.544	-0.842	0.000	2.004	1.324	14.035

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

APUC Prod Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
14.035	0.020	0.057	0.096	0.000	1.060	0.000	-0.486	0.747	14.782

SAR Baseline History

Item/Event	SAR Planning Estimate (PE)	SAR Development Estimate (DE)	SAR Production Estimate (PdE)	Current Estimate
Milestone I	JUL 1992	JUL 1992	JUL 1992	JUL 1992
Milestone II	JAN 1994	JUL 1995	JUL 1995	JUL 1995
Milestone III	MAR 1997	JUN 1998	APR 2005	JUN 2005
IOC	OCT 1999	APR 2000	JAN 2003	JAN 2003
Total Cost (TY \$M)	122.6	791.1	1421.1	1475.7
Total Quantity	N/A	53	93	92
Prog. Acq. Unit Cost (PAUC)	N/A	14.926	15.281	16.040

Cost Variance**Cost Variance Summary**

Summary Then Year \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Prod Est)	115.8	1305.3	--	1421.1
Previous Changes				
Economic	-1.0	-2.3	--	-3.3
Quantity	--	-8.8	--	-8.8
Schedule	--	+8.8	--	+8.8
Engineering	--	--	--	--
Estimating	+1.0	+134.0	--	+135.0
Other	--	--	--	--
Support	--	-39.2	--	-39.2
Subtotal	--	+92.5	--	+92.5
Current Changes				
Economic	--	+4.1	--	+4.1
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	--	-36.5	--	-36.5
Other	--	--	--	--
Support	--	-5.5	--	-5.5
Subtotal	--	-37.9	--	-37.9
Total Changes	--	+54.6	--	+54.6
CE - Cost Variance	115.8	1359.9	--	1475.7
CE - Cost & Funding	115.8	1359.9	--	1475.7

Summary Base Year 2005 \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Prod Est)	134.0	1239.2	--	1373.2
Previous Changes				
Economic	--	--	--	--
Quantity	--	-7.3	--	-7.3
Schedule	--	+11.7	--	+11.7
Engineering	--	--	--	--
Estimating	+1.1	+111.8	--	+112.9
Other	--	--	--	--
Support	--	-35.6	--	-35.6
Subtotal	+1.1	+80.6	--	+81.7
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	--	-31.5	--	-31.5
Other	--	--	--	--
Support	--	-4.7	--	-4.7
Subtotal	--	-36.2	--	-36.2
Total Changes	+1.1	+44.4	--	+45.5
CE - Cost Variance	135.1	1283.6	--	1418.7
CE - Cost & Funding	135.1	1283.6	--	1418.7

Previous Estimate: December 2010

Procurement	\$M	
	Base Year	Then Year
Current Change Explanations		
Revised escalation indices. (Economic)	N/A	+4.1
Adjustment for current and prior escalation. (Estimating)	-1.8	-1.9
Minor decreases in DoD funding to reflect planned efficiencies from implementing better buying power initiatives. (Subtotal)	-9.1	-11.0
Army funding (Estimating)	(-3.0)	(-3.7)
Air Force funding (Estimating)	(-0.4)	(-0.5)
Navy funding (Estimating)	(-5.7)	(-6.8)
Decrease in Air Force funding reflects SAC-D Congressional Mark reducing FY 2011 site activation funds of \$23.6M. (Estimating)	-20.6	-23.6
Adjustment for current and prior escalation. (Support)	-0.5	-0.6
Decrease in Army Support (Support)	-1.4	-1.7
Decrease in Army Initial Spares (Support)	-0.3	-0.3
Decrease in Air Force Support (Support)	-1.2	-1.3
Decrease in Air Force Initial Spares (Support)	0.0	+0.1
Decrease in Navy Support. (Support)	-1.3	-1.7
Procurement Subtotal	-36.2	-37.9

Contracts

Appropriation: Procurement

Contract Name **Digital Airport Surveillance Radar (DASR)**
 Contractor Raytheon Company
 Contractor Location Marlborough, MA 01752
 Contract Number, Type F19628-96-D-0038/1, FFP
 Award Date August 09, 1996
 Definitization Date August 09, 1996

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
17.9	N/A	0	17.9	N/A	0	17.9	17.9

Cost And Schedule Variance Explanations

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

Contract Comments

This contract is more than 90% complete; therefore, this is the final report for this contract.

The DASR Phase I contract reached the end of its period of performance on September 30, 2011.

Appropriation: Procurement

Contract Name **Digital Airport Surveillance Radar (DASR)**
 Contractor Raytheon Company
 Contractor Location Marlborough, MA 01752
 Contract Number, Type F19628-96-D-0038/2, FFP
 Award Date August 09, 1996
 Definitization Date August 09, 1996

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
372.0	N/A	92	678.0	N/A	121	678.0	678.0

Cost And Schedule Variance Explanations

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

Contract Comments

This contract is more than 90% complete; therefore, this is the final report for this contract.

The difference between the initial contract price target and the current contract price target is due to program delays associated with Multiservice Operational Test and Evaluation (MOT&E) issues and funding cuts.

The DASR Phase I contract reached the end of its period of performance on September 30, 2011.

Digital Airport Surveillance Radar I Quantities:

- United States Air Force – 30
- United States Navy – 17
- United States Army – 7
- Federal Aviation Administration – 66
- Foreign Military Sales - 1

DoD Funding: \$240M

Appropriation: Procurement

Contract Name **Digital Airport Surveillance Radar II**
 Contractor Raytheon Company
 Contractor Location Marlborough, MA 01752
 Contract Number, Type FA8730-08-D-0001/1, FFP
 Award Date May 22, 2008
 Definitization Date September 30, 2008

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
679.0	N/A	95	679.0	N/A	95	679.0	679.0

Cost And Schedule Variance Explanations

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

Contract Comments

Digital Airport Surveillance Radar Phase II Contract - Quantities ordered to date:

- United States Air Force - 20
- United States Navy - 9
- United States Army - 4

Contract Funding to date: \$277.8M

Initial Contract Price Quantity, inadvertently reflected as N/A in previous SAR, has been updated to 95.

Deliveries and Expenditures

Deliveries To Date	Plan To Date	Actual To Date	Total Quantity	Percent Delivered
Development	0	0	0	--
Production	60	60	92	65.22%
Total Program Quantities Delivered	60	60	92	65.22%

Expenditures and Appropriations (TY \$M)			
Total Acquisition Cost	1475.7	Years Appropriated	23
Expenditures To Date	1133.9	Percent Years Appropriated	82.14%
Percent Expended	76.84%	Appropriated to Date	1354.2
Total Funding Years	28	Percent Appropriated	91.77%

Operating and Support Cost

Assumptions And Ground Rules

The Operating and Support (O&S) cost estimate is based on analysis performed for the MS III decision, letter from SAF/FMC dated March 18, 2005. The estimate assumes a 34 year life from year FY 2000 to FY 2034 for the 92 sites. There is no antecedent system.

Costs BY2005 \$M		
Cost Element	NAS Avg Annual Cost Per NAS Site	Avg Annual Cost Per Antecedent
Unit-Level Manpower	2.1	--
Unit Operations	0.2	--
Maintenance	0.0	--
Sustaining Support	0.1	--
Continuing System Improvements	0.4	--
Indirect Support	0.3	--
Other	--	--
Total Unitized Cost (Base Year 2005 \$)	3.1	--

Total O&S Costs \$M	NAS	Avg Annual Cost Per
Base Year	9696.8	--
Then Year	14115.2	--