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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-148)
PROGRAM: PATRIOT PAC-3

AS OF DATE: December 31, 2005

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Unit Cost and Other History	N/A
Contract Information	N/A
Program Funding Summary	N/A
Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): Guided Missile System, Air Defense PATRIOT Advanced Capability - 3 (PAC-3) Program
2. (U) DoD Component: Army

Joint Participants:
Missile Defense Agency
3. (U) Responsible Office and Telephone Number:
Project Manager CCL John K. Vaughn
Lower Tier Project Office Assigned: October 31, 2003
PO Box 1500 DSN 645-3240; COMM (256) 955-3240
Huntsville, AL 35807-3801 john.vaughn@msl.army.mil

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~~Classified By: PATRIOT Security Classification Policy dated April 4, 2003.
Downgrade instructions: Upgrade CRIMES 1.0 separated from CLASS sections
Declassify on: April 23, 2028~~

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06-C-0495

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10. (U) Performance Characteristics:

a. Performance --

SAR Production Estimate	Approved APB Cb ² /Threshold	Demon- strated Perf	Current Estimate
-------------------------------	---	---------------------------	---------------------

(b)(1)



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10a. (U) Performance Characteristics (Cont'd):

<u>SAR</u> <u>Production</u> <u>Estimate</u>	<u>Approved</u> <u>APB</u> <u>Obj/Threshold</u>	<u>Demon-</u> <u>strated</u> <u>Perf</u>	<u>Current</u> <u>Estimate</u>
	ground / ground		intense
	clutter / clutter		ground
	and ECM / and ECM		clutter
			and ECM

(b)(1)

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10a. (U) Performance Characteristics (Cont'd):

SAR Production <u>Estimate</u>	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
--------------------------------------	----------------------------------	---------------------------	---------------------

(b)(1)

/ approved
/ tactical
/ Air
/ Missile
/ Defense
/ (AMD)
/ specific
/ messages

(U) Acronyms:

ABT - Air Breathing Threat
AGL - Above Ground Level
AMD - Air and Missile Defense
ASCIET - All Services Combat Identification and Evaluation Team
Bn - Battalion
ECM - Electronic Countermeasure
EMP - Electromagnetic Pulse
HWIL - Hardware In The Loop
JCIEET - Joint Combat Identification and Evaluation Team
km - kilometer
kv/m - kilovolts/meter
MSL - Mean Sea Level
TADIL-J - Tactical Data Link-Joint
TBM - Tactical Ballistic Missile

(b)(1)

(U) All performance parameters are PAC-3 system parameters.

(b)(1)

(b)(1)

(b)(1)

(b)(1)

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10a. (b)(1)

(b)(1)

(b)(1)

(b)(1)

(U) System Effectiveness = $P(\text{DET}) \times [1 - (1 - P(\text{SSK}))^n]$, where n=number of shots, and SSK=Single Shot Kill.

(U) Missile Reliability is based on the Reliability Growth Curve. This is a technical parameter which supports the key JROC validated characteristics.

(U) The Fire Unit Mean Time Between Failure parameter supports the key JROC validated characteristics.

b. Current Change Explanations -- None

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N-9 CVN 68

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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-161)
PROGRAM: CVN 68 Class

AS OF DATE: December 31, 2005

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Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): CVN-68 Class/Carrier Replacement Program (Nuclear Aircraft Carriers)
2. (U) DoD Component: Navy
3. (U) Responsible Office and Telephone Number:
Program Executive Officer CAPT Thomas Moore
Aircraft Carriers Assigned: June 5, 2003
614 Sicard Street SE Stop 7007 DSN 326-0470; COMM (202) 781-0470
Washington, DC 20376-7007 thomas.j.moore5@navy.mil

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Office of the Chief of
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Dept of the Navy

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Declassify on: Originating Agency Determination Required (DD-A&T)~~

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10. (U) Performance Characteristics:

a. Performance --

	SAR Production Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
Length Overall	1092	1092 / 1092	1092	1092
Beam	134	134 / 134	134	134
Maximum Width	252	252 / 252	252	252
Draft (Combat Load) (ft)	40.4	39.0 / 40.4	40.4	40.4
Displacement (tons)	97337	99000 / 102500	102500	97337
Propulsion	Nuclear	Nuclear / Nuclear	Nuclear	Nuclear
Shaft Horsepower	(b)(1)			
Trial Speed (kts)				
Endurance (at 20 kts)				
Store (days)				
Close in Weapons Systems				
NATO Sea Sparrow Missile Systems				
Aviation Strike Ordnance (Long Tons)				
Average Fuel (gals)				
Operational Number of Aircraft (Deck Multiple in A4 Equivalents)	151	151 / 151	151	151
Core Life (yrs)	15	N/A / N/A	TBD	20
Number of Reactors	2	N/A / N/A	2	2
Crew (Including Air Wing)	6048	N/A / N/A	6040	6048

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(U) Acronyms:

A4 A-4, Skyhawk attack aircraft
CVN nuclear aircraft carrier
ft feet
gals gallons
K thousands
kts knots
NATO North Atlantic Treaty Organization
yrs years

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10b. (U) Performance Characteristics (Cont'd):

b. Current Change Explanations -- None

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N-35 TRIDENT II MSL

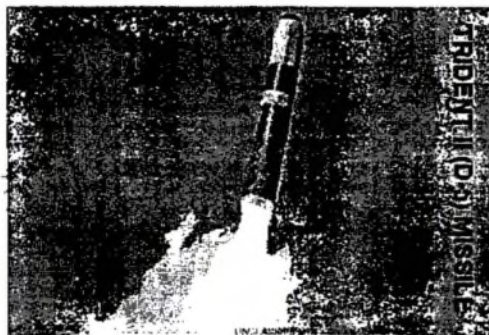
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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-178)
PROGRAM: TRIDENT II MISSILE

AS OF DATE: December 31, 2005

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Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): Sea Launched Ballistic Missile-UGM 133A TRIDENT II (D-5) Missile
2. (U) DoD Component: Navy
3. (U) Responsible Office and Telephone Number:

STRATEGIC SYSTEMS PROGRAMS	RADM CHARLES B. YOUNG
NATIONAL CENTER 2	Assigned: July 17, 2002
2521 S. CLARK STREET, SUITE 1000	DSN 329-9000; COMM (703) 601-9000
ARLINGTON, VA 22202-3930	SP00@SSP.NAVY.MIL

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10. (U) Performance Characteristics:

a. Performance --

	SAR Production Estimate	Approved APB Ch-1/Threshold	Demon- strated Perf Perf	Current Estimate	
(S) Max Range Full Payload (nm)	(b)(1)				AS AMENDED SECRET
(S) System Circular Error Probable (CEP) (ft)					Ch-1)
(S) System Reliability					Ch-2)
(S) Max Payload - Yield					
(U) Acronyms:					
KT = kiloton					
nm = nautical mile					

b. Current Change Explanations --

- (S) (Ch-1) System Circular Error Probable (CEP) changed from (b)(1) based on current TRIDENT submarine launch data and other representative data sources. AS AMENDED
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- (S) (Ch-2) System reliability changed from (b)(1) based on current TRIDENT submarine launch data and other representative data sources.

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11. (U) Total Program Cost and Quantity (Dollars in Millions):

	SAR Production Estimate	Approved APB Obj/Threshold	Current Estimate
a. (U) Cost --			
Development (RDT&E)	8434.9	8414.8/9256.3	8516.0
Procurement	17588.5	17155.2/18870.7	17155.0
Total Flyaway	14471.2		13112.1
Other weapon systems	(3082.9)		(4019.3)
Peculiar Support	(0.0)		(0.0)
Initial Spares	(34.4)		(23.6)
Total Support	3117.3		4042.9
Construction (MILCON)	532.9	373.7/411.1	389.0
Acquisition O&M	0.0	0.0/0.0	0.0
Total FY 1983 Base-Year \$	26556.3	25943.7/ N/A	26060.0
Escalation	8962.2	11600.2	11941.9
Development (RDT&E)	(1018.3)	(996.5)	(1041.3)
Procurement	(7808.4)	(10528.5)	(10809.9)
Construction (MILCON)	(135.5)	(75.2)	(90.7)
Acquisition O&M	(0.0)	(0.0)	(0.0)
Total Then-Year \$	35518.5	37543.9	38001.9

b. (U) Quantity --

Development (RDT&E)	30	28	28
Procurement	815	540	533
Total	845	568	561

(U) At Milestone II of October 1983 a Low Rate Initial Production (LRIP) quantity of 21 was approved for the TRIDENT Missile Program. This quantity was executed in FY 1987.

c. Foreign Military Sales -- None

(b)(1)

Then-Year \$).

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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-179)
PROGRAM: ARH

AS OF DATE: December 31, 2005

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Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): Armed Reconnaissance Helicopter
2. (U) DoD Component: Army
3. (U) Responsible Office and Telephone Number:

SFAE-AV-ARH	LTC Neil Thurgood
Room 151, Bldg 5681	Assigned: March 15, 2004
Wood Road	DSN 897-4460; COMM 256-313-4460
Redstone Arsenal, AL 35898-5000	Neil.Thurgood@us.army.mil

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10. (U) Performance Characteristics:

a. Performance --

	SAR Development Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
Net Ready Inter- faces, services, policy-enforcement controls, information exchange correctness, availability and processing require- ments in the Joint Integrated archi- tecture	100%	100% / Enter- prise / level or / critical	TBD	100%
Deployability: No. of aircraft in C-130, fightable within 15 min per aircraft upon arrival	Three	Three / Two	TBD	Two
Aircraft Performance			TBD	
HOGE	6K/95°F	6K/95°F / 4K/95°F	TBD	4K/95°F
Range	424 km	424 km / 212 km	TBD	327 km
Endurance	3.0 hrs	3.0 hrs / 2.2 hrs	TBD	2.27 hrs
Mission Reliability for 3.43 hr mission	90%	90% / 70%	TBD	76.7%

(b)(1)

(U) Acronyms:

TBD - To Be Determined
No. - Number
HOGE - Hover Out of Ground Effect
km - kilometers
m - meters
IR - Infra-Red

b. Current Change Explanations -- None

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N-11 DDG 51

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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-180)
PROGRAM: DDG 51 Destroyer

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Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): DDG 51 Destroyer
2. (U) DoD Component: Navy
3. (U) Responsible Office and Telephone Number:
PEO SHIPS CAPT J.D. INGRAY, USN
1333 ISAAC HULL AVENUE SE Assigned: August 25, 2004
WASHINGTON, DC 20376-2301 DSN 336 2177; COMM (202) 781 2177
john.d.ingram@navy.mil

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Declassify on: X4~~

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10. (U) Performance Characteristics:

a. Performance --

	SAR Production Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
SHIP:				
Length (ft)	466	N/A / N/A	471	471
Beam (ft)	59	N/A / N/A	59	59
Navigational Draft (ft)	30.6	N/A / N/A	31.7	31.7
Displacement (long tons)	8300	N/A / N/A	9300	9300
Propulsion LM (Gas Turbine)	2500	N/A / N/A	2500	2500
Accommodations	341	N/A / N/A	380	380
MOBILITY:				
Speed (knots)	(b)(1)			
Endurance (@ 20 Knots) (nm)	(b)(1)			
ANTI-AIR WARFARE:				
CONDUCT SUCCESSFUL AAW ENGAGEMENT:				
Probability of Successful Engagement-ESSM	N/A	TBD	(b)(1)	
ANTI-SURFACE WARFARE:				
CONDUCT SUCCESSFUL ASW ENGAGEMENT:				
Probability of Successful Engagement	N/A		(b)(1)	
HELO				
NAVAL SURFACE FIRE SUPPORT				
Probability of Successful Engagement	N/A			
HELO				
ANTI-SUBMARINE WARFARE:				
CONDUCT SUCCESSFUL ASW ENGAGEMENT:				
Figure of Merit:				
Probability of Achieving Attack Criteria	N/A			
Number VLS Missiles	N/A			
MINE WARFARE:				
Detection Range of Moored/Floating Mine (YDS)	N/A			
SIGNATURE:				

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10a. (U) Performance Characteristics (Cont'd):

	SAR Production Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
Radar Cross section (dbsm)	N/A	(b)(1)		
SURVIVABILITY/ VULNERABILITY:				
Nuclear				
Airblast	N/A			
Overpressure (psi)				
Armament				
Anti-Submarine Warfare				
ASW System	AN/SQQ- 89	N/A / N/A	AN/SQQ- 89(V)10	AN/SQQ- 89(V)10
ASROC	VLA	N/A / N/A	VLA	VLA
Helo	SEAHAWK; LAMPS	2 / 2 EMBARKED/ HELOS	2 EMBARKED HELOS	2 EMBARKED HELOS
Anti-Air Warfare				
Launchers	MK 41 VLS	N/A / N/A	MK 41 VLS	MK 41 VLS
Missiles	SM-2 MR	N/A / N/A	SM-2 MR	SM-2 MR
Missile Fire	3 MK 99	N/A / N/A	3 MK 99	3 MK 99
Control System				
Guns	2 PHALANX	N/A / N/A	2 PHALANX	2 PHALANX/ ESSM
Anti-Surface/Strike Warfare				
Guns	1 5"/54	N/A / N/A	1 5"/54	1 5"/54
Gunfire Control System	MK 160	N/A / N/A	MK 160	MK 160
Anti-Ship Cruise Missile	HARPOON	N/A / N/A	N/A	N/A
Cruise Missile	TOMAHAWK	N/A / N/A	TOMAHAWK	TOMAHAWK
Electronic Warfare	SLQ-32 SRBOC	N/A / N/A	SLQ-32 (V)3, SRBOC, COMBAT DF	SLQ-32 (V)3, SRBOC, Combat DF
Radars				
Surface	SPS-67	N/A / N/A	SPS-67	SPS-67
3D	SPY-1D	N/A / N/A	SPY-1D	SPY-1D

(U) Acronyms:

AAW = Anti-Air Warfare
ASROC = Anti-Submarine Rocket
ASUW = Anti-Surface Warfare
ASW = Anti Submarine Warfare

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10a. (U) Performance Characteristics (Cont'd):

dbsm = decibels per square inch
ESSM = Evolved Sea Sparrow Missile
nm = nautical mile
psi = pounds per square inch
VLS = Vertical Launching System
VLA = Vertical Launching ASROC (Anti-Submarine Rocket)
SM2 = Standard Missile 2
HELO = Helicopter

*/ General Note: Approved Program, Demonstrated Performance, and Current Estimate are for the Flight IIA configuration. Production Estimates are for the Flight I configuration. Demonstrated Performance characteristics have been revised to reflect changes as a result of testing outlined in TEMP 801-OT-III F/IIIG Reports.

(U) 1/ Probability of Kill, Single Shot (PKSS)

2/ (b)(1)

(U) 3/ DBSM reduction from conventionally constructed ships of similar displacement, e.g. CG 47 Class ship.

(U) 4/ For structure and developmental systems.

b. Current Change Explanations -- None

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AF-2 AMRAAM

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SELECTED ACQUISITION REPORT (RCS: DD-A&T(Q&A)823-185)
PROGRAM: AMRAAM (AIM-120)

AS OF DATE: December 31, 2005

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1. (U) Designation and Nomenclature (Popular Name): AIM-120 Advanced Medium Range Air-to-Air Missile (AMRAAM)

2. (U) DoD Component: USAF

Joint Participants:
USN

3. (U) Responsible Office and Telephone Number:

Medium Range Missile Systems Group	COL SCOTT L. RUMPH
MRMSG/CC	Assigned: August 4, 2005
Eglin AFB, FL 32542-6844	DSN 875-0343; COMM (850) 883-0343
	scott.rumph@eglin.af.mil

(U) Navy Program Director
Counterair Joint Systems Program
Office (JSPC) (AAC/YA)
Eglin AFB, FL 32542-6844

GS-15 PASQUALE D. GAMBATESE
Assigned: January 26, 2003
DSN 872-2412, COMM (850) 882-2412
pasquale.gambatese@eglin.af.mil

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10. (U) Performance Characteristics:

a. Performance --

	SAR Production Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate	
Weight (lbs)	327	327 / 350	344	345	
Reliability					
Ready Storage (hrs)	60000	60000 / 45000	N/A	45000	
(mature msl - 90K operational flight hours)					
Availability (%)	86	86 / 82	N/A	87.2	(Ch-1)
Captive-Carry (MTBM- Type I) (hrs)	600	600 / 450	1126	1121	(Ch-2)

(b)(1)

Aircraft Configure/ Load - 3 Man Load Crew					
Install 4 Rail Launchers (mins)	20	20 / 25	21	21	
Load 4 Missiles from trailer (mins)	15	15 / 20	18	18	
Load 4 Missiles from container (mins)	20	20 / 30	22	22	
Missile checks (mins)	1	1 / 5	1	1	
All Weather Capability	Day, Night, Rain,	Day, Night, Rain, / Day, Night, Rain,	Day, Night, Rain,	Day, Night, Rain,	

(b)(1)

Aircraft Compatibility	F-15, F-16, F-14, F/A-18	F-15, F-16, F-14, F/A-18	/ F-15, / F-16, / F-14, / F/A-18	F-15, F-16, F/A-18	F-15, F-16, F/A-18 F-22
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10a. (U) Performance Characteristics (Cont'd):

	SAR Production Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
All-Up Round	Control	Control / Control	Control	Control
	Surfaces	Surfaces/ Surfaces	Surfaces	Surfaces
	field	field / field	field	field
	in-	in- / in-	in-	in-

(b)(1)



(U) Acronyms:

A-Pole - The distance between the shooter and the target when the missile goes active.

ECCM - Electronic Counter Counter Measure

ECM - Electronic Counter Measure

F-Pole - The distance between the shooter and the target when the missile intercepts the target.

Mins - Minutes

Msl - Missile

MTBM - Mean Time Between Maintenance

- 3 -

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10a. (U) Performance Characteristics (Cont'd):

NM - Nautical Mile
Pk - Probability of Kill

b. Current Change Explanations --

(U) (Ch-1) Potential safety of flight concerns with Aerojet rocket motors resulted in J-coding (suspended from use) 832 missiles. Testing is underway to identify cause and make definitive recommendation on permanent status by February 2006. As a result, availability fell below Air Combat Command (ACC) standard of 91%. The AIM-120A is 87.2% available, the AIM-120B is 69.4% available, and the AIM-120C is 91.5%. Overall, the AIM-120 is currently 87.2% available.

(U) (Ch-2) The Field Captive Carry Mean Time Between Maintenance (MTBM) is changed from an estimate of 1,107 hours to 1,121 hours cumulative actuals to date for the USAF which are: From 1,128 to 1,134 hours for the AIM-120A, from 930 to 931 hours for the AIM-120B, and from 1,263 to 1,215 hours for the AIM-120C missile. Field Captive Carry MTBM actuals for the USN are: 744 hours for the AIM-120A, 453 hours for the AIM-120B, and 801 to 807 hours for the AIM-120C missile. The Joint Service Operational Requirement (JSOR) for the missile is 450 hours.

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11. (U) Total Program Cost and Quantity (Dollars in Millions):

	SAR Production Estimate	Approved APB Obj/Threshold	Current Estimate
a. (U) Cost --			
Development (RDT&E)	1725.7	2097.2/2411.8	2322.4
Procurement	10552.5	10205.7/10716.0	9775.1
Flyaway	(10038.5)		(7133.4)
Non Recurring			(2062.6)
Total Flyaway	10038.5		9196.0
Other Weapon Cost	(0.0)		(0.0)
Peculiar Support	(378.0)		(475.7)
Initial Spares	(136.0)		(103.4)
Total Support	514.0		579.1
Construction (MILCON)	0.0	0.0/0.0	0.0
Acquisition O&M	0.0	0.0/0.0	0.0
Total FY 1992 Base-Year \$	12278.2	12302.9/ N/A	12097.5
Escalation	834.2	1025.0	1091.2
Development (RDT&E)	(-375.1)	(-275.7)	(-229.6)
Procurement	(1209.3)	(1300.7)	(1320.8)
Construction (MILCON)	(0.0)	(0.0)	(0.0)
Acquisition O&M	(0.0)	(0.0)	(0.0)
Total Then-Year \$	13112.4	13327.9	13188.7
b. (U) Quantity --			
Development (RDT&E)	0	0	0
Procurement	15450	13038	14237
Total	15450	13038	14237

(U) The Advanced Medium Range Air-to-Air Missile (AMRAAM) received a favorable Low Rate Initial Production (LRIP) decision during the Milestone IIIA review by the Defense Acquisition Board (DAB) in June 1987. The original plan was to procure 810 LRIP missiles or 3.3% of the total planned quantity of 24,320. However, LRIP was extended from FY87 through FY92 with a quantity of 4,159 missiles (27% of the Production Estimate total quantity). This resulted from two actions: (1) the planned total procurement decreased from 24,320 missile at Milestone IIIA to 15,450 missiles at Milestone IIIB, and (2) Milestone IIIB authorized the program to continue LRIP through FY92, adding 3,349 missiles to the LRIP quantities.

(b)(1)

- (U) BAHARAIN (BA-D-YBI) Case signed November 13, 1999
\$25.8M PURPOSE: 26 AMRAAMs (Lot XIV), support, and integration.
- (U) BELGIUM (BE-D-YCD) Case signed December 22, 1995
\$31.1M PURPOSE: 72 AMRAAMs (Lot XI), and spares.

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- (U) CANADA (CN-D-YAE) Case signed July 10, 2003
\$60.0M PURPOSE: 69 AMRAAMS (Lot XVII), 38 AMRAAMS (Lot XIV) and support.
- (U) CZECH REPUBLIC (EZ-D-YAB) Case signed April 06, 2005
\$15.5M PURPOSE: 24 AMRAAMS (Lot 19) and associated support.
- (U) CHILE (CI-D-SGB) Case signed February 28, 2005
\$5.6M PURPOSE: 8 AMRAAMS (LOT XIV) and support.
- (U) DENMARK (DE-D-QBB) Case signed October 22, 2003
\$2M PURPOSE: AMRAAM support and software updates.
- (U) DENMARK (DE-D-QBJ) Case signed August 10, 2004
\$1M PURPOSE: AMRAAM software upgrade.
- (U) DENMARK (DE-D-QBN) Case signed December 12, 2004
\$2.2M PURPOSE: 2006 software Upgrade (SWUP).
- (U) FINLAND (FI-D-YAA) Missile procurement is FMS administered direct commercial sale. Case signed November 4, 1994
\$106.3M PURPOSE: 312 AMRAAMS (Lots X, XI, XII, and XIII), and software updates.
- (U) GERMANY (GY-D-QAP) Case signed November 12, 2001
\$1.3M PURPOSE: AMRAAM Software Upgrade Program of AIM-120B.
- (U) GERMANY (GY-D-QWV) Case signed January 03, 2003
\$4.9M PURPOSE: AMRAAM Test Firing.
- (U) GREECE (GR-D-SBD) Case signed September 26, 1996
\$107.2 PURPOSE: 240 AMRAAMS (Lots XI, XII, and XVII).
- (U) GREECE (GR-D-YDT) Case signed December 05, 2001
\$37.3M PURPOSE: 100 AMRAAMS (Lot XV), and support.
- (U) ITALY (IT-D-YAC) Case signed December 01, 1997
\$110.3M PURPOSE: 233 AMRAAMS (Lots XII, XIII, and XVI), support, and software updates.

(b)(1)

- (U) ISREAL (IS-D-YES) Case signed July 01, 2001
\$25.3M PURPOSE: 48 AMRAAMS (Lot XV), support, and integration testing.

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- *** ~~CONFIDENTIAL~~ ***
- \$8.7M PURPOSE: 15 AMRAAMS (Lot XVII), and support.
- (U) JORDAN (JO-D-YJD) Case signed April 15, 2005
\$13M PURPOSE: 15 AMRAAMS (Lot 19), and support.
- (U) KOREA (KS-D-SIR) Case signed Jun 12, 2002
\$80.8M PURPOSE: 157 AMRAAMS (Lot XVI), spares, and support.
- (U) MALAYSIA (MF-D-YBD) Case signed May 26, 2005
\$14.6M PURPOSE: 20 AMRAAMS (Lot XX) and support.
- (U) NATO EF-2000 and Tornado Development, Production, and Logistics Management Agency (NETMA) (ML-D-YAA) Case signed November 05, 1991
\$11.9M PURPOSE: 8 AMRAAMS (Lots VII, and XVII).
- (U) NETHERLANDS (NE-D-QCL) Case signed March 18, 2005
\$4.3M PURPOSE: AMRAAM 2002 Software Upgrade and AMRAAM 2006 Software Upgrade.
- (U) NORWAY (NO-D-QBI) Case signed December 20, 2000
\$1.3M PURPOSE: AMRAAM support.
- (U) OMAN (MU-D-YEI) Case signed May 02, 2002
\$27.7M PURPOSE: 50 AMRAAMS (Lot XVI), spares, and support.
- (U) POLAND (PL-D-SAC) Case signed April 18, 2003
\$21.1M PURPOSE: 50 AMRAAMS, and support.
- (U) PORTUGAL (PT-D-YAP) Case signed June 27, 2002
\$8.7M PURPOSE: 12 AMRAAMS (Lot XVI), spares, and support.
- (U) SAUDI ARABIA (SR-D-YPY) Case signed March 10, 2002
\$84.1M PURPOSE: 160 AMRAAMS (lot XVI), spares, and support.
- (U) SINGAPORE (SN-D-YAD) Case signed March 27, 2001
\$59.2M PURPOSE: 100 AMRAAMS (Lot XV), and support.
- (U) SPAIN (SP-D-YAF) Case signed March 05, 1999
\$43.6M PURPOSE: 100 AMRAAMS (Lot XIII), and support.
- (U) SPAIN (SP-D-YDI) Case signed September 30, 2002
\$16.7M PURPOSE: 37 AMRAAMS (Lot XVI and Lot XVII), program management support, and logistics support.
- (U) SWEDEN (SW-D-YCD) Missile procurement is FMS administered direct commercial sale. Case signed September 01, 1994
\$44.2M PURPOSE: 110 AMRAAMS (Lots X, and XII), and support.
- (U) SWITZERLAND (SZ-D-QAF) Case signed September 05, 2005

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\$2.9M PURPOSE: Purchase of 5 NDI-AIU Field Kits for the AIM-120B AMRAAM and services in support of AIM-120B AMRAAMs.

- (U) TAIWAN (TW-D-SKA) Case signed December 13, 2000
\$68.8M PURPOSE: 120 AMRAAMs (Lot XV), support, and software updates.
- (U) THAILAND (TH-D-YJK) case signed June 28, 2001
\$2.5M PURPOSE: 4 AMRAAMs (Lot XV).
- (U) THAILAND (TH-D-YJL) Case signed July 13, 2001
\$3.6M PURPOSE: 4 AMRAAMs (Lot XV), and support.
- (U) TURKEY (TK-D-QOJ) Case signed December 08, 2004
\$4.6M: PURPOSE: 2006 Software Upgrade (SWUP).
- (U) UNITED ARAB EMIRATS (AE-D-SAA) Case signed August 08, 2000
\$4.5M PURPOSE: 2 AMRAAMs (Lot XIV), support, software updates, and integration.
- (U) UNITED ARAB EMIRATES (AE-D-YAB) Case signed August 20, 2002
\$52.0M PURPOSE: 100 AMRAAMs (Lot XVI), support equipment, and software.
- (U) UNITED KINGDOM (UK-D-QBV) Case signed May 31, 2002
\$13.1M PURPOSE: Integration and testing of AMRAAM.
- (U) UNITED KINGDOM (UK-D-QBW) Case signed May 31, 2002
\$0.6M PURPOSE: Integration and testing of AMRAAM.
- (U) UNITED KINGDOM (UK-D-QCJ) Case signed December 11, 2003
\$1.4M PURPOSE: Support and Program Management
- (U) Inactive Foreign Military Sales (FMS) cases totaling \$878.9M.
- (U) DENMARK (DE-D-YAS) Case signed December 08, 1994
\$23.6M PURPOSE: 150 AMRAAMs (Lots IX and X) and support
- (U) GERMANY (GY-D-YEK) Case signed June 28, 1995
\$38.7M PURPOSE: 96 AMRAAMs (Lots IX, and X)
- (U) GREECE (GR-D-YDR) Case signed June 30, 1995
\$32.5M PURPOSE: 100 AMRAAMs (Lot X) and support.
- (U) ISREAL (IS-D-YEO) Case signed February 06, 1997
\$49.4M PURPOSE: 125 AMRAAMs (Lots X, XI, XII, and XIII), support, and software updates.
- (U) JAPAN (JA-D-YCJ) Case signed February 19, 1999
\$20.3M PURPOSE: 40 AMRAAMs (Lot XIII).

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- (U) JAPAN (JA-D-YCK) Case signed March 24, 2000
\$8.7M PURPOSE: 21 AMRAAXs (Lot XIV), support, and software updates.
- (U) JAPAN (JA-D-YCL) Case signed March 21, 2001
\$9.3M PURPOSE: 21 AMRAAMs (Lot XV), support, and software updates.
- (U) JAPAN (JA-D-YYZ) Case signed January 30, 2002
\$10.7M PURPOSE: 21 AMRAAMs (Lot XVI), and support.
- (U) KOREA (KS-D-YGN) Case signed December 30, 1993
\$81.1M PURPOSE: 190 AXRAAMs (Lot X).
- (U) KOREA (KS-D-YGQ) Missile procurement is FMS administered direct
commercial sale. Case signed March 13, 1997
\$9.2M PURPOSE: 100 AMRAAMs (Lot XII), and software updates.
- (U) KOREA (KS-D-YGP) Missile procurement is FMS administered direct
commercial sales. Case signed August 28, 1995
\$8.9M PURPOSE: 100 AXRAAXs (Lot XII).
- (U) KOREA (KS-D-YGY) Case signed December 27, 1999
\$66.0M PURPOSE: 159 AMRAAMs (Lot XIV), support, and software updates.
- (U) NAMA (4-D-GAH) Case signed March 17, 2001
\$0.1M PURPOSE: To provide technical support.
- (U) NETHERLANDS (NE-D-YME) Case Signed September 29, 1995
\$77.0M PURPOSE: 200 AMRAAMs (Lot X, and XI) and support.
- (U) NORWAY (NO-D-ICY) Case signed October 07, 1992
\$53.6M PURPOSE: 100 AMRAAMs (Lots VIII, and IX) and support.
- (U) NORWAY (NO-D-YCZ) Case signed August 31, 1994
\$68.3M PURPOSE: 228 AMRAAMs (Lots IX, and X) and support.
- (U) NORWAY (NO-D-YDA) Case signed April 01, 1996
\$100.3M PURPOSE: 250 AMRAAMs (Lot XI), 228 MRLs, (Lot XI), and
software updates.
- (U) SPAIN (SP-D-YDH) Case signed July 11, 1996
\$12.6M PURPOSE: 32 AMRAAMs (Lot XI) and support.
- (U) SWEDEN (SW-D-YCE) Case signed December 27, 2003
\$3.3M PURPOSE: 2 AMRAAMs (Lot XVII), and support.
- (U) SWITZERLAND (SZ-D-YBB) Missile procurement is FMS administered as
direct commercial sale. Case signed August 05, 1994
\$1.4M PURPOSE: Support.

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- (U) SWITZERLAND (SZ-D-NAV) Case signed October 16, 2000
\$2.1M PURPOSE: Software updates.
- (U) TURKEY (TK-D-YDT) Case signed October 25, 1993
\$17.1M PURPOSE: 60 AMRAAMs (Lots IX, and X)
- (U) TURKEY (TK-D-YDU) Case signed December 01, 1994
\$22.7M PURPOSE: 80 AMRAAMs (Lots IX, and X)
- (U) TURKEY (TK-D-YDV) Case signed November 24, 1997
\$51.0M PURPOSE: 138 AMRAAMs (Lot XII), support, and software updates.
- (U) TURKEY (TK-D-GQP) Case signed December 25, 2003
\$.3M PURPOSE: Managing and Tracking the AMRAAM missile and support systems.
- (U) TURKEY (TK-D-YNR) Case signed September 11, 2002
\$1.0M PURPOSE: Repair/Return in support of AIM-120 AMRAAM.
- (U) UNITED KINGDOM (UK-D-YDR) Case signed March 03, 1992
\$100.1M PURPOSE: 210 AMRAAMs (Lots VII, and VIII), support, and software updates.
- (U) UNITED KINGDOM (UK-D-NST) Case signed April 11, 1996
\$9.6M PURPOSE: Integration and testing of AMRAAM.

d. (U) Nuclear Costs --
None

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N-23 MH-60R

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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-191)
PROGRAM: MH-60R

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Unit Cost and Other History	N/A
Contract Information	N/A
Program Funding Summary	N/A
Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): MH-60R Multi-Mission Helicopter
2. (U) DoD Component: Navy
3. (U) Responsible Office and Telephone Number:
Air ASW, Assault and Special Mission CAPT Paul Grosklags
Programs (PMA-299) 47123 Buse Rd Assigned: July 26, 2004
Unit IPT, Suite 156 DSN 757-5409; COMM 301-757-5409
Patuxent River, MD 20670-1547 Paul.Grosklags@navy.mil

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Downgrade instructions: OPNAVINST 35513.213
Classify on: X3~~

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10. (U) Performance Characteristics:

a. Performance --

	SAR Development Estimate	Approved APE Obj/Threshold	Demon- strated Perf	Current Estimate
Maximum Operating Sea State	5	5 / 5	TBD	TBD
Mission Duration (ASW) (hrs)	3.3	1.25 / 9 / 1.25 / 9	Pass	Pass
Mission Duration (ASUW) (hrs)	3.5	1.25 / 80	Pass	Pass
Multi-Mode Radar	(b)(1)	(b)(1)		
Range to Detect a 10000 Sq Meter Target	(b)(1)	(b)(1)		
Range to Detect a 0.5 Sq Meter Target	(b)(1)	N/A / N/A	N/A	N/A
Using ISAR Classify a Surface Combatant at a percentage of the Target's Maximum Detectable Range	(b)(1)	(b)(1)		
Electronic Support Measures	(b)(1)	(b)(1)		
Detectable Frequency Bandwidth (GHz)	(b)(1)	(b)(1)		
Ability to Detect a Threat Emitter X times Detection Range of the Threat Radar	(b)(1)	N/A / N/A	N/A	N/A
Reliability and Maintainability				
MFHBCF (ASW) (hrs)	35.7	N/A / N/A	N/A	N/A
MFHBCF (ASUW) (hrs)	43.9	N/A / N/A	N/A	N/A
Acoustic System				
Sonobuoys: Maximum AOU with a 75% Probability of Detection for a Nuclear Subsurface Target (sqnm)	1000	N/A / N/A	N/A	N/A
Sonobuoys & ALFS: Maximum AOU with a 90% Probability of Detection for a Subsurface Target (sqnm)	(b)(1)	N/A / N/A	N/A	N/A

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10a. (U) Performance Characteristics (Cont'd):

	SAR Development Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
ALFS: Max AOU with a 75% Probability of Detection for a Nuclear Subsurface Target (sqnm) using AQS-22 ALFS only	N/A	N/A / N/A	N/A	N/A
Airborne Low Frequency Sonar				
Operating Frequency (Khz)	<5	N/A / N/A	N/A	N/A
Maximum System Weight	550	N/A / N/A	N/A	N/A
Source Level (db)	(b)(1)	N/A / N/A	N/A	N/A
Minimum Long Pulse Length (sec) (minimum duty cycle 6.7%)		N/A / N/A	N/A	N/A
Reeling Machine MCBCF (cycles)	1000	N/A / N/A	N/A	N/A
Avionics MTBMCF (hrs) (excluding cable and reeling machine)	78	N/A / N/A	N/A	N/A
MTBF (hrs)	58	N/A / N/A	N/A	N/A
MTTR, O Level (hrs)	2.0	N/A / N/A	N/A	N/A
Availability (%)	0.98	N/A / N/A	N/A	N/A
Interoperability	N/A	All IERs/ Critical / IERs	Pass	Critical IERs
Availability (%): Full Mission Capable	N/A	63% / 53%	N/A	63%
Availability (%): Mission Capable	N/A	82% / 70%	82.3%	82%
ALFS: Probability of detection (Pd) with a 50 square nautical mile circular Area of Uncertainty (AOU)	N/A	90% / 75%	N/A	90%

(U) Acronyms:

ALFS - Airborne Low Frequency Sonar
 AOU - Area of Uncertainty
 ASUW - Anti-Surface Warfare
 ASW - Anti-Submarine Warfare
 Db - Decibel
 GHZ - GigaHertz

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10a. (U) Performance Characteristics (Cont'd):

HRS - Hours
IER - Information Exchange Requirements
ISAR - Inverse Synthetic Aperature Radar
KHZ - KiloHertz
MCBCF - Mean Cycles Between Critical Failure (S)
MFHBCF - Mean Flight Hours Between Critical Failure (S)
MTBF - Mean Time Between Failure (S)
MTBMCF - Mean Time Between Mission Critical Failure (S)
MTTR - Mean Time To Repair
Pd - Probability of detection
SEC - Second
SQ - Square
sqnm - Square nautical miles

(U) The ALFS, originally a separate ACAT II program, was incorporated into the MH-60R baseline in 1999 and performance objectives are tracked with the MH-60R program.

Demonstrated Performance and Current estimate updates are the results of OT-IIB (OPEVAL).

b. Current Change Explanations -- None

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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-197)
PROGRAM: DD(X) Destroyer

AS OF DATE: December 31, 2005

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Contract Information	N/A
Program Funding Summary	N/A
Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): DD(X) Destroyer
2. (U) DoD Component: Navy
3. (U) Responsible Office and Telephone Number:
 PEO Ships (PMS 500) CAPT C. D. Syring
 1333 Isaac Hull Ave. S.E. Stop 2202 Assigned: September 23, 2005
 Washington, DC 20376-2202 DSN 326-2532; COMM (202) 781-2532
 james.syring@navy.mil

No Security Objection
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 Office of the Chief of
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 Dept. of the Navy

Derived from: Multiple Sources
 Downgrade instructions: Not subject to automatic downgrade
 Declassify on: X1, X3

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10. (X) Performance Characteristics:

a. Performance --

	SAR Planning Estimate	Approved APB/DE Obj/Threshold	Demon- strated Perf	Current Estimate
Land Attack:	(b)(1)			(b)(1)
A minimum of two separate gun systems with a total of 155 mm artillery battery equivalency (Six MK 198 Towed Howitzers)		N/A / N/A	TBD	
NSFS Gun range (nm)		N/A / N/A	TBD	
Gun system accuracy (m CEP)		N/A / N/A	TBD	
Ship C4ISR architecture accommodates Joint Interoperability for the following types of information and data:		N/A / N/A	TBD	
Strategic (National sensor downlink or equivalents)		N/A / N/A	TBD	
Theater (CAV and JSTARS Direct Down Link or equivalents)		N/A / N/A	TBD	
Force Coordination (BGIXS or equivalent)		N/A / N/A	TBD	
Force Control (JTIDS and AFATIDS or equivalents)		N/A / N/A	TBD	
Weapons Control (CEC or equivalent)		N/A / N/A	TBD	
Signature Reduction:		(b)(1)		
Radar Cross Section (RCS)X dBsm median, 0-360 degs azimuth, 0-2 degs elevation, (2-4 GHz) 0-6 degs elevation (8-18 GHz) (plus ship's motion), RCS smoothly distributed over the length of ship. Minimize wake contribution			TBD	

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10a. (f) Performance Characteristics (Cont'd):

	SAR Planning Estimate	Approved APB/DE Obj/Threshold	Demon- strated Perf	Current
Radar Cross Section (dBsm median) 0-360 degrees azimuth 0-10 degrees elevation 2-4 and 8-18Ghz RCS smoothly distrib- uted over length of ship. Minimize wake contribution Infrared	(b)(1)	N/A / N/A	TBD	(b)(1)
Contrast Radiance for non-stack areas (sr=steradians) ($\mu\text{W}/\text{cm}^2/\text{sr}$) (3-5 μm band)/ (8-12 μm band) 0-10 degrees elevation. Minimize wake contribution	(b)(1)	N/A / N/A N/A / N/A	TBD TBD	(b)(1)
Contrast Radiant Intensity for stack and plume (W/sr) (3-5 μm band)/(8-12 μm band) 0-10 degrees elevation		N/A / N/A	TBD	
Magnetic (nanoTeslas)		N/A / N/A	TBD	
Acoustic =< 15kts		N/A / N/A	TBD	
Sustained speed (kts)		N/A / N/A	TBD	
Endurance (nm radius at 20 kts)		N/A / N/A	TBD	
Vertical launch cell capacity (#)		N/A / N/A	TBD	
Magazine capacity per tube system		N/A / N/A	TBD	
Manning: Number of ship's company personnel (helo det included)		N/A / N/A	TBD	
Logistics and Readiness:	N/A	N/A / N/A	TBD	

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10a. (U) Performance Characteristics (Cont'd):

	SAR Planning <u>Estimate</u>	Approved APB;DE <u>Obj/Threshold</u>		Demon- strated <u>Perf</u>	Current <u>Estimate</u>
Operational Availability (Ao) for mission critical systems	C.95	N/A	/ N/A	TBD	.95
Number of Advanced Gun Systems	N/A	2	/ 2	TBD	2
Number of Advanced Vertical Launch Cells	N/A	128	/ 80	TBD	128
Total Ship Advanced Gun System Magazine Capacity	N/A	1200 rounds {600 rounds per maga- zine}	/ 600 rounds / total / ship / magazine / capacity	TBD	1200 rounds (600 rounds per maga- zine)
Number of ship's company personnel (helicopter detachment included)	N/A	125	/ 175	TBD	125
Operational Availability (Ao) for mission critical systems:					
Ao for 120-day wartime profile	N/A	0.95	/ 0.90	TBD	0.95
Ao for 18 month extended forward deployment	N/A	0.95	/ 0.90	TBD	0.95
Interoperability: All top-level IERs will be satisfied to the standards specified in the Threshold and Objective values.	N/A	Achieve 100% of top- level inform- ation Exchange/ Require- ments. DD(X) joint tactical/ battle manage- ment and/ command and control computer/	/ Achieve 100% / top- level / Informa- tion Ex- change Require- ments / design- ated as critical. DD(X) joint tactical battle manage- ment and/ battle manage- ment and command and control command	TBD	Achieve 100% of top- level Inform- ation Exchange Require- ments. DD(X) joint tactical battle manage- ment and command and control computer

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10a. (U) Performance Characteristics (Cont'd):

<u>SAR</u> <u>Planning</u> <u>Estimate</u>	<u>Approved</u> <u>APB/DE</u> <u>Obj/Threshold</u>	<u>Demon-</u> <u>strated</u> <u>Perf</u>	<u>Current</u> <u>Estimate</u>
	programs/ and		programs
	shall / control		shall
	conform / computer		conform
	to the / programs		to the
	Single / shall		Single
	Integr- / conform		Integr-
	ated Air/ to the		ated Air
	Picture / Single		Picture
	(SIAP) / Integr-		(SIAP)
	System / ated Air		System
	Engine- / Picture		Engine-
	er's / (SIAP)		er's
	Integr- / System		Integr-
	ated / Engine-		ated
	Archi- / er's		Archi-
	tecture / Integr-		tecture
	and / ed		and
	Integr- / Archi-		Integr-
	ated / tecture		ated
	Archi- / and In-		Archi-
	tecture / tegrated		tecture
	Behavior/ Archi-		Behavior
	Model / techture		Model
	now / Behavior		now
	being / Model		being
	devel- / for		devel-
	oped. / Track		oped.
	DD(X) / Manage-		DD(X)
	will / ment now		will
	remain / being		remain
	in / devel-		in
	compli- / oped.		compli-
	ance / DD(X)		ance
	with / will		with
	CJCSI / remain		CJCSI
	6212.01 / in		6212.01
	(Series)/ compli-		(Series)
	, Inter-/ ance		,
	oper- / with		Inter-
	ability / CJCSI		oper-
	and / 6212.C		ability
	Support-/ (Series)		and
	ability / , Inter-		Support-
	of / oper-		ability
	Informa-/ ability		of
	tion / and		Inform-
	Technol-/ Support-		ation
	ogy and / ability		Technol-

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10a. (U) Performance Characteristics (Cont'd):

<u>SAR</u>	<u>Approved</u>	<u>Demon-</u>	<u>Current</u>
<u>Planning</u>	<u>APB/DE</u>	<u>strated</u>	<u>Estimate</u>
<u>Estimate</u>	<u>Obj/Threshold</u>	<u>Perf</u>	<u>ogy and</u>
	National/ of		National
	Security/ Informa-		Security
	Systems / tion		Systems
	(IT and / Technol-		(IT and
	NSS), / ogy and		NSS),
	includ- / National		includ-
	ing / Security		ing
	future / Systems		future
	updates./ (IT and		updates.
	/ NSS),		
	/ Includ-		
	/ ing		
	/ future		
	/ updates.		

(U) Acronyms:

AFATDS	Advanced Field Artillery Tactical Data System
BGIXS	Battle Group Information Exchange System
C4ISR	Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance
CEC	Cooperative Engagement Capability
CEP	Circular Error of Probability
CJCSI	Chairman, Joint Chiefs of Staff Instruction
cm ²	square centimeters
dBsm	decibel square meters
GHz	gigahertz
IERs	Information Exchange Rates
JSTARS	Joint Surveillance and Target Attack Radar System
JTIDS	Joint Tactical Information Distribution System
kts	knots
m	meter
mm	millimeter
MK	Mark
nm	nautical mile
RCS	Radar Cross Section
um	micrometers
uW	microwatts
W	Watts
UAV	Unmanned Aerial Vehicle

(U) * The chart depicting the acoustics Objective / Threshold can be found in the DD(X) Operational Requirements Document (ORD).

The JROC approved the DD(X) ORD on February 23, 2004.

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10b. (U) Performance Characteristics (Cont'd):

b. Current Change Explanations -- None

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AF-22 SBIRS HIGH

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PROGRAM: SBIRS High

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1. (U) Designation and Nomenclature (Popular Name): Space Based Infrared System (SBIRS) High Program
2. (U) DoD Component: USAF
3. (U) Responsible Office and Telephone Number:
SMC/IS Col Randall S. Weidenheimer
185 Discoverer Blvd. Assigned: February 3, 2004
Suite 2512 DSN 833-1807; COMM (310) 363-1807
El Segundo, CA 90245-4695 randall.weidenheimer@losangeles.af.mil

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06-C-0329

*** ~~SECRET~~ ***

10. ~~(S)~~ Performance Characteristics:

a. Performance --

SAR Development Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
--------------------------------	----------------------------------	---------------------------	---------------------

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(b)(1)

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*** ~~SECRET~~ ***

10a. ~~(U)~~ Performance Characteristics (Cont'd):

AS AMENDED

SAR
Development

Approved
APB

Demon-
strated Current

(b)(1)



*** ~~SECRET~~ ***

~~(S)~~ *** ~~SECRET~~ ***
10a. ~~(S)~~ Performance Characteristics (Cont'd):

(AS AMENDED)

SAR Development	Approved APB	Demon- strated	Current
--------------------	-----------------	-------------------	---------

(b)(1)



*** ~~SECRET~~ ***

10a. ~~(S)~~ Performance Characteristics (Cont'd):

AS AMENDED

SAR
Development

Approved
APB

Demon-
strated Current

(b)(1)



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*** ~~SECRET~~ ***

10a. (U) Performance Characteristics (Cont'd):

SAR
Development

Approved
APB

Demon-
strated Current

(AS AMEND)

(b)(1)



(U) Acronyms:

AIRCREF - Aircraft

CFLOS - Cloud-free Line of Sight

COMM - Communication

FA - Focused Area

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10a. (U) Performance Characteristics (Cont'd):

LAT	- Latitude
MRC	- Major Regional Conflict
MSL	- Missile
MTR	- Major Threat Region
N	- North
NLT	- Not Later Than
Pc	- Probability of Collection
Pw	- Probability of Warning
RV	- Re-entry Vehicle
S	- South
TBD	- To Be Determined

b. Current Change Explanations --
(U) None.

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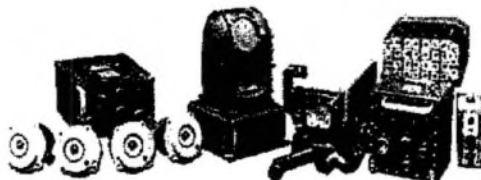
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AS OF DATE: December 31, 2005

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Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name):

2. (U) DoD Component: Army

Joint Participants:

United States Special Operations Command

3. (U) Responsible Office and Telephone Number:

PM Infrared Countermeasures
ATTN: SFAE-IEW&S-ASE
Redstone Arsenal, Bldg 5300
Huntsville, AL 35898-5000

COL Philip J. Carey
Assigned: November 2, 2004
DSN 746-7167; COMM 256-876-7167
philip.carey@us.army.mil

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06-C-0494

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9. (U) Schedule:

a. Milestones --

	SAR Production Estimate	Approved APB Obj/Threshold	Current Estimate
DEMVAL Contract Award	SEP 1991	SEP 1991/MAR 1992	SEP 1991
Technical Test			
Start	JUL 1994	JUL 1994/JAN 1995	JAN 1994
Complete	DEC 1995	DEC 1995/JUN 1996	JUN 1994
Milestone I/II	JUN 1995	JUN 1995/DEC 1995	JUN 1995
EMD Contract Award	SEP 1995	SEP 1995/MAR 1996	SEP 1995
Preliminary Design Review Complete	JUN 1996	JUN 1996/MAR 1997	JUN 1996
Critical Design Review Complete	SEP 1996	SEP 1996/MAR 1997	FEB 1997
First Prototype Delivery	JUN 1998	JUN 1998/DEC 1998	APR 1998
Developmental Testing			
Start	NOV 2000	NOV 2000/MAY 2001	NOV 2000
Complete	JAN 2002	JAN 2002/JUL 2002	JAN 2002
Limited Production Urgent (LPU) CMWS	FEB 2002	FEB 2002/FEB 2002	FEB 2002
LPU CMWS Contract Award	MAR 2002	MAR 2002/MAR 2002	MAR 2002
Milestone C (LRIP) ATIRCM	NOV 2003	NOV 2003/NOV 2003	NOV 2003
User Test Complete CMWS	NOV 2003	NOV 2003/NOV 2003	NOV 2003
LRIP Contract Award ATIRCM	MAR 2004	FEB 2004/FEB 2004	FEB 2004
First Unit Equipped CMWS	MAR 2004	MAR 2004/MAR 2004	MAR 2004

(b)(1)

(U) Acronyms:

DEMVAL - Demonstration and Validation
EMD - Engineering, Manufacturing and Development
LRIP - Low Rate Initial Production

b. Current Change Explanations --

(U) (Ch-1) On 21 Dec 05, the AAE approved an ATIRCM path forward with a low risk, revised schedule that contains modified program parameters for ATIRCM IOT&E, FUE, and FRP dates. The revised Objective (O) and Threshold (T) dates for those parameters are as follow: Operational Test Start Date - (O) Aug 09, (T) Feb 10; Operational Test End Date - (O) Sep 09, Mar 10 (T); FUE ATIRCM - (O) Aug 10, (T) Feb 11; FRP ATIRCM - (O) Jun 10, (T) Jun 11. The program is now executing in accordance with these revised dates that support a comprehensive, fully resourced, low risk path ahead to successfully overcome performance and reliability issues discovered during testing in Oct 04 and Jan 05.

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9b. (U) Schedule (Cont'd):

Operational Testing ATIRCM		
Start	NOV 2008	AUG 2009
Completion	DEC 2008	SEP 2009
First Unit Equipped ATIRCM	JUN 2009	AUG 2010
Full Rate Production ATIRCM	OCT 2009	JUN 2010

(b)(1)



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10b. (U) Performance Characteristics (Cont'd):

b. Current Change Explanations -- None

14. (U) Unit Cost and Other History (Then-Year Dollars in Millions):

a. (U) Program Acquisition Unit Cost (PAUC) History

Initial SAR Baseline to Current SAR Baseline

PAUC Init Est	Changes								PAUC Prod Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
1.086	+0.035	-0.200	-0.108	+0.366	+0.293	--	+0.043	+0.129	1.215

a. (U) Program Acquisition Unit Cost (PAUC) History

Current SAR Baseline to Current Estimate

PAUC Prod Est	Changes								PAUC Cur Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
1.215	+0.058	+0.246	-0.114	-0.185	+0.258	--	+0.081	+0.344	1.559

b. (U) Procurement Unit Cost (PUC) History

Initial SAR Baseline to Current SAR Baseline

PUC Init Est	Changes								PUC Prod Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.913	-0.036	-0.233	-0.109	--	-0.356	--	+0.044	-0.094	1.007

b. (U) Procurement Unit Cost (PUC) History

Current SAR Baseline to Current Estimate

PUC Prod Est	Changes								PUC Cur Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
1.007	+0.058	+0.301	-0.115	-0.186	+0.253	--	+0.081	+0.392	1.399

c. (U) Baseline Unit Cost History

	Initial SAR Baseline	Prior APB	Current APB	Prior Annual SAR	Current Estimate
Date:	MAR 1996	NOV 2003	DEC 2004	DEC 2004	Dec 2005

Then Year Dollars in Millions

PAUC (TY\$)	1.086	1.215	1.713	1.768	1.559
APUC (TY\$)	0.913	1.007	1.508	1.554	1.399

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14c. (U) Unit Cost and Other History (Cont'd):

Base Year Dollars in Millions (BY 2003)

PAUC (BYS)	0.927	1.056	1.514	1.521	1.280
APUC (BYS)	0.751	0.836	1.300	1.300	1.115

d. (U) Schedule, Cost, and Quantity History

Item/Event	SAR Planning Estimate (PE)	SAR Development Estimate (DE)	SAR Production Estimate (PdE)	Current Estimate
Milestone I	N/A	JUN 1995	JUN 1995	JUN 1995
Milestone II	N/A	JUN 1995	JUN 1995	JUN 1995
Milestone C	N/A	FEB 2002	NOV 2003	NOV 2003
(b)(1)				
Total Cost	0.0	3361.6	3240.6	5594.4
Total Quantity	0	3094	2668	3589
Prog Acq Unit Cost	0.000	1.086	1.215	1.559

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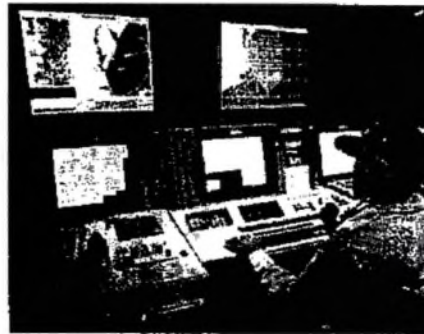
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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-241)
PROGRAM: SSDS

AS OF DATE: December 31, 2005

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Program Funding Summary	N/A
Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): Ship Self Defense System (SSDS)
2. (U) DoD Component: Navy
3. (U) Responsible Office and Telephone Number:
 MPM, Integrated Combat Systems Mr. Reuben S. Pitts III
 1333 Isaac Hull Avenue SE Assigned: October 22, 2003
 Stop 2301 DSN 326-3789; COMM (202) 761-3789
 Washington Navy Yd, DC 20376-2301 reuben.pitts@navy.mil

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10. (U) Performance Characteristics:

SSDS MK 2

a. Performance --

	SAR Development Estimate	Approved APB;PdE Obj/Threshold	Demon- strated Perf	Current Estimate
P(EST)	(b)(1)		TBD	(b)(1)
P(ED)			TBD	
P(ES)			TBD	
P(RTN)			TBD	
Interoperability			TBD	
A/C			TBD	
Surveillance Op Range			TBD	
Participating Units Supported			TBD	
Joint Units Supported			TBD	
Track Capacity and Update Rate				
Real Time Local			TBD	
Real Time Remote			TBD	
Real Time Link-4A			TBD	
Non-Organic			TBD	
Ownship Controlled A/C				
Controlled Interceptors			TBD	
One Way Link-4A			TBD	
Two Way Link-4A			TBD	
Simultaneous Handovers			TBD	
Track Altitude			TBD	
Track Depth			TBD	
Track Velocity			TBD	
(U) Acronyms:				
A(o)	Operational Availability			
A/C	Aircraft			
Kft	Thousand Feet			
NM	Nautical Miles			
Op	Operating			

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10a. (U) Performance Characteristics (Cont'd):

SSDS MK 2

P(ED) Probability of Correct Engagement Decision
P(ES) Probability of Correct Engagement Sequence
P(EST) Probability of Establishing a Valid SSDS Track
P(RTN) Probability of Achieving Nominal Reaction Time

b. Current Change Explanations -- None

SSDS MK 2 P3I

a. Performance --

	SAR Development Estimate	Approved APB/PdE Obj/Threshold	Demon- strated Perf	Current Estimate
P(EST)	(b)(1)		TBD	(b)(1)
P(ED)			TBD	
P(ES)			TBD	
P(RTN)			TBD	
Interoperability			TBD	
A(o)			TBD	
Surveillance Op Range			TBD	
Participating Units Supported			TBD	
Joint Units Supported			TBD	
Track Capacity and Update Rate				
Real Time Local			TBD	
Real Time Remote			TBD	
Real Time Link-4A			TBD	
Non-Organic			TBD	
Ownship Controlled A/C				
Controlled Interceptors			TBD	
One Way Link-4A			TBD	
Two Way Link-4A			TBD	
Simultaneous Handovers			TBD	
Track Altitude			TBD	
Track Depth			TBD	
Track Velocity			TBD	
(U) Acronyms:				

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10a. (U) Performance Characteristics (Cont'd):

SSDS MK 2 P3I

A(o)	Operational Availability
A/C	Aircraft
Kft	Thousand Feet
NM	Nautical Miles
Op	Operating
P(ED)	Probability of Correct Engagement Decision
P(ES)	Probability of Correct Engagement Sequence
P(EST)	Probability of Establishing a Valid SSDS Track
P(RTN)	Probability of Achieving Nominal Reaction Time

b. Current Change Explanations -- None

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AF-16 MM III PRP

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SELECTED ACQUISITION REPORT (RCS: DD-A&T(Q&A)823-248)

PROGRAM: Minuteman (MM) III PRP

AS OF DATE: December 31, 2005

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1. (U) Designation and Nomenclature (Popular Name): Propulsion Replacement Program (PRP)

2. (U) DoD Component: USAF

3. (U) Responsible Office and Telephone Number:

526 ICBMSW/FSSG/GMFP
6011 Gum Lane
Hill AFB, UT 84056-5626

Capt Lisa Epperson
Assigned: November 17, 2004
DSN 775-2230; COMM (801) 775-2230
Lisa.Epperson@hill.af.mil

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10. (U) Performance Characteristics:

a. Performance --

SAR
Production
Tested

Approved
APB
Old (1961)

AS AMENDED
Demon-
strated Current

(b)(1)



(U) Acronyms:

FRD- Formerly Restricted Data
FS- Frequency Source
FT- Feet
HRS- Hours
MM- Minuteman
NM - Nautical Miles
SICBM- Small Intercontinental Ballistic Missile
SPEC- Specification
SYS- System
TBD- To Be Determined
WPN- Weapon
YRS- Years

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10b. (U) Performance Characteristics (Cont'd):

b. Current Change Explanations -- None

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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-251)
PROGRAM: ADS Increment Alpha

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Program Funding Summary	N/A
Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): AN/WQR-3 / Advanced Deployable System
2. (U) DoD Component: Navy
3. (U) Responsible Office and Telephone Number:
PMS-485 CAPT Joseph Cereola
4301 Pacific Hwy Assigned: February 13, 2006
San Diego, CA 92110-3127 DSN 577-0283; COMM 858-537-0283
joseph.cereola@navy.mil

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10. (U) Performance Characteristics

a. Performance --

	SAR Development	Approved APB Ops/Threshold	Demon- strated Perf	Current Estimate
(b)(1)				
Continuous Sensor Subsystem Endurance				
Intermittent Sensor Subsystem Endurance				
Continuous Tactical Interface Subsystem (TIS) Endurance				
Intermittent Tactical Interface Subsystem (TIS) Endurance				
(U) Operational Availability (Ao)	C.9	0.9 / 0.8	TBD	0.887
(U) Information Exchange Requirements (IER)	100% Top Level (TL)	100% / Critical Top Level (CTL)	TBD	100% Critical Top Level (CTL)
(U) String Install Time	4 hrs	4 hrs / 8 hrs	TBD	4.6 hrs
(U) Barrier Probability (Pd) per cross	0.9	0.9 / 0.9	TBD	0.9
(U) Field Probability of Detection (Pd)	0.9/3hr	0.9/3hr / 0.9/12hr	TBD	0.9/12hr
(U) Tactical Time Late				
(U) Acronyms:				
Ao-Operational Availability				
CTL-Critical Top Level				
hr/hrs-hour/hours				
IER-Information Exchange Requirements				
min.-Minute				
mos-Months				
Pd-Probability of Detection				
TBD-To be determined				
TIS-Tactical Interface Subsystem				
TL-Top Level				
yr-Years				

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10b. (U) Performance Characteristics (Cont'd):

b. Current Change Explanations -- None

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AF-11 GLOBAL HAWK

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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-252)

PROGRAM: Global Hawk

AS OF DATE: December 31, 2005

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Program Funding Summary	N/A
Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): Global Hawk (RQ-4A)

2. (U) DoD Component: USAF

3. (U) Responsible Office and Telephone Number:

Reconnaissance Systems Wing	Col G. Scott Coale
Aeronautical Systems Center	Assigned: January 18, 2005
2640 West Loop Road, Room 213	DSN 785-2056; COMM 937-255-2056
WPAFB, OH 45433-7106	scott.coale@wpafb.af.mil

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10. (U) Performance Characteristics:

a. Performance --

	SAR Development <u>Estimate</u>	Approved APB <u>Obj./Threshold</u>	Demon- strated <u>Perf</u>	Current <u>Estimate</u>
Block 5: Endurance - Air Vehicle (AV)	Should be capable of flying an enroute distance of 3000 NM, remainin g on- stati on 24 hours, and recover at the launch base.	N/A / N/A	N/A	N/A
Block 5: Airspace Coordination - Global Hawk System	The Global Hawk system must be sufficie ntly robust to allow world wide system employe nt in all classes of airspace	N/A / N/A	N/A	N/A
Block 5: Mission Execution - Ground Station	The ground station will allow	N/A / N/A	N/A	N/A

*** UNCLASSIFIED ***

10a. (U) Performance Characteristics (Cont'd):

	SAR Development <u>Estimate</u>	Approved APB <u>Obj/Threshold</u>	Demon- strated <u>Perf</u>	Current <u>Estimate</u>
UAV operator s to perform NRT mission control, mission monitori ng, and mission updates/ modifica tions to include dynamic platform and payload control and re- taski ng.				
Block 5: Information Exchange Requirements (IERS)	100% of all top-leve l IERS.	N/A / N/A	N/A	N/A
Block 10: System Survivability - Air Vehicle (AV)	The AV must be equipped to employ active counter- measures against radar and IR- guide d threats to the system as identifi	N/A / N/A	N/A	N/A

*** UNCLASSIFIED ***

10a. (U) Performance Characteristics (Cont'd):

	SAR Development Estimate ed in the STAR. System MTBCF of 160 hours. TBD	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate	
Block 10: Mean Time Between Critical Failure (MTBCF)	N/A	/ N/A	N/A	N/A	
Block 10: Signal Intelligence (SIGINT)	N/A	/ N/A	N/A	N/A	
Increment Zero: Endurance -- Air Vehicle (AV) (KPP)	N/A	40 hrs	/ In msn / capable / config- / uration, Advanced / must / have a / min / total / endur- / ance of / 28 hrs / plus / appro- / priate / fuel / reserves / IAW Air / Force / Instruc- / tions	31.5 hrs during Concept Demonstr ations	31.5 hrs
Increment Zero: Airspace Coordination - Global Hawk System (KPP)	N/A	Must be suffi- ciently robust to allow world- wide system employ- ment in all classes of airspace/	/ Must be / suffi- / ciently / robust / to allow / world- / wide / system / employ- / ment in / all / classes / of airspace/	To date the Global Hawk ACTD has operated in Classes A, D and E domestic aerospac e and Classes A, E and G internat ional airspace	Must be suffi- ciently robust to allow world- wide system employ- ment in all classes of airspace

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10a. (U) Performance Characteristics (Cont'd):

	<u>SAR Development Estimate</u>	<u>Approved APB Obj/Threshold</u>	<u>Demon- strated Perf</u>	<u>Current Estimate</u>
			Actual flights into class B airspace or other	
Increment Zero:	N/A	Must / Must	Global	Must
Mission Execution -		allow / allow	Hawk has	allow
Ground Station (KPP)		opera- / opera-	demonstr	opera-
		tors to / tors to	ated	tors to
		perform / perform	real	perform
		NRT / NRT	time	NRT
		mission / mission	statusin	mission
		control, / control,	g and	control,
		mission / mission	control	mission
		monitor- / monitori	of the	monitor-
		ing, and/ n	air	ing, and
		mission / g, and	vehicle,	mission
		updates// mission	to	updates/
		modifi- / updates/	include	modifi-
		cations / modifica	manual	cations
		to / t	override	to
		include / ions to	of the	include
		dynamic / include	pre-prog	dynamic
		platform/ dynamic	rammed	platform
		and / platform	flight	and
		payload / and	plan in	payload
		control / payload	response	control
		and / control	to ATC	and
		re-taski/ and	and	re-
		n / re-taski	re-taski	tasking
		g / n	ng	
		/ g	directio	
			n. The	
Basic ORD Increment 1:	N/A	Satisfy / Satisfy	Global	Satisfy
Information Exchange		100% of / 100% of	Hawk has	100% of
Requirements (IERS)		all / all	demonstr	all
(KPP)		top- / top-	ated	top-
		level / level	some	level
		IERS / IERS	degree	IERS
		/ desig-	of	
		/ rated	performa	
		/ critical	nance in	
			11 of	
			the 12	

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10a. (U) Performance Characteristics (Cont'd):

	<u>SAR Development Estimate</u>	<u>Approved APB Obj/Threshold</u>	<u>Demon- strated Perf IER level 1</u>	<u>Current Estimate</u>
(b)(1)				
Basic ORD Increment 1: Mission Planning	N/A	12 hrs / 12 hrs	4 hrs in 4 to 12 developm hrs ent environm ent. Ops environm ent will be longer TBD	AS AMENDED SECRET AV multi- Int capable
Basic ORD Increment 1: Delivery of first AV with a multi- Intelligence (multi-Int) Capabilities	N/A	AV / AV multi- / multi- Int / Int capable / capable		
(b)(1)				

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10a. (U) Performance Characteristics (Cont'd):

	SAR Development <u>Estimate</u>	Approved APB <u>Obj/Threshold</u>	Demon- strated <u>Perf</u>	Current <u>Estimate</u>
Basic ORD Increment 1: Effective Time on Station (ETOS)	N/A	90 % / 85 %	Data to be collecte d during	90 %

(b)(1)

Basic ORD Increment 2: System Survivability - Air Vehicle (AV)	N/A	Must be / equipped/ to / employ / active / counter-/ measures/ against / radar / and IR- / guided / threats / to the / system / as iden-/ tified / in the / STAR /	Must be equipped to detect radar- guided threats as iden- tified in the STAR and relay the informa- tion to ground station person-	TBD	Must be equipped to employ active counter- measures against radar and IR- guided threats to the system as iden- tified in the STAR
--	-----	---	---	-----	---

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(b)(1)

(U) Acronyms:

ACTD	Advance Concept Technology Demonstration
ASIP	Airborne Signals Intelligence Program
AV	Air Vehicle
EMD	Engineering and Manufacturing Development
EO	Electro Optical
ETOS	Effective Time on Station
GHz	Giga-Hertz
HBS	High Band System
IAW	In Accordance With
IER	Information Exchange Requirements
IR	Infrared
Km	Kilometer
KPP	Key Performance Parameter
lbs	Pounds

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10a. (U) Performance Characteristics (Cont'd):

MHz	Mega-Hertz
MP-RTIP	Multi Platform Radar Insertion Program
MSN	Mission
MTBCF	Mean Time Between Critical Failures
Multi-Int	Multiple Intelligence
NIIRS	National Intelligence Imagery Reference Standard
NM	Nautical Miles
NRT	Near Real Time
ORD	Operational Requirements Document
RF	Radio Frequency
PCU	Production Configuration Unit
SAR	Synthetic Aperture Radar
SIGINT	Signals Intelligence
STAR	System Threat Analysis Report
TBD	To Be Determined
UAV	Unmanned Air Vehicle

b. Current Change Explanations -- None

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AF-1 AEHF

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SELECTED ACQUISITION REPORT (RCS: DD-A&T(Q&A)823-261)
PROGRAM: Advanced EHF

AS OF DATE: December 31, 2005

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1. (U) Designation and Nomenclature (Popular Name): Advanced Extremely High Frequency (AEHF) Satellite

2. (U) DoD Component: USAF

Joint Participants:
Canada, Netherlands & United Kingdom

3. (U) Responsible Office and Telephone Number:

SMC/MC	BG Ellen M. Pawlikowski
2420 Vela Way	Assigned: March 7, 2005
Suite 1467-A8	DSN 833-4877; COMM 310-336-4877
El Segundo, CA 90245-4659	ellen.pawlikowski@losangeles.af.mil

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10. (U) Performance Characteristics:

a. Performance --

	SAR Development <u>Estimate</u>	Approved APB <u>Obj/Threshold</u>	Demon- strated <u>Perf</u>	Current <u>Estimate</u>
Coverage	N/A	N/A / N/A	N/A	N/A
Capacity	N/A	1.2 Gbps/ Support CMTW, / at least 600 Mbps/ 500 Mbps Strate- / for CMTW gic / Scenario / and at / least / 350 Mbps / for / Strate- / gic / Scenario	N/A	Support at least 500 Mbps for CMTW Scenario and at least 350 Mbps for Strate- gic Scenario
Nuclear Protection	N/A	Provide / Provide assured / assured communi- / communi- cations / cations to / to surviva- / surviva- ble / ble nuclear / nuclear forces / forces exposed / exposed to the / to the environ- / environ- ment / ment speci- / speci- fied in / fied in NCGS-89- / NCGS-89- 06, and / 06, and for / for those / those critical/ critical networks/ networks that / that support / support the / the follow- / follow- ing / ing critical/ critical func- / func- tions: / tions: situa- / situa- tion / tion monitor-/ monitor-	N/A	Provide assured communi- cations to surviva- ble nuclear forces exposed to the environ- ment speci- fied in NCGS-89- 06, and for those critical networks that support the follow- ing critical func- tio

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10a. (U) Performance Characteristics (Cont'd):

<u>SAR</u> <u>Development</u> <u>Estimate</u>	<u>Approved</u> <u>APB</u> <u>Obj/Threshold</u>	<u>Demon-</u> <u>strated</u> <u>Perf</u>	<u>Current</u> <u>Estimate</u>
	ing, / ing,		
	decision/ decision		
	making, / making,		
	force / force		
	direc / direc		
	tion, / tion,		
	force / force		
	manage- / manage-		
	ment, / ment,		
	and / and		

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10a. (U) Performance Characteristics (Cont'd):

	SAR Development	Approved APR	Demon- strated	Current
(b)(1)				
Access and Control	N/A	Provide / Provide users / users ability / ability to plan, / to plan, control, / control, & recon- / & recon- figure / figure their / their appor- / appor- tioned / tioned re- / re- sources; / sources; critical / critical func- / func- tions / tions such as / such as situa- / situa- tion / tion monitor- / monitor- ing, / ing, decision / decision making, / making, force / force direc- / direc- tion, / tion, force / force manage- / manage- ment, & / ment, & planning / planning shall / shall not be / not be disrupt- / disrupt- ed by / ed by communi- / communi- cations / cations config- / config- uration / uration changes / changes to non- / to non- critical / critical func- / func- tions / tions	N/A	Provide users ability to plan, control, & recon- figure their appor- tioned re- sources; critical func- tions such as situa- tion monitor- ing, decision making, force direc- tion, force manage- ment, & planni

Interoperability

- 4 -

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10a. (U) Performance Characteristics (Cont'd):

	SAR Development <u>Estimate</u>	Approved APB <u>Obj/Threshold</u>	Demon- strated <u>Perf</u>	Current Estimate
AEHF Interopera- bility	N/A	Support / Support joint / joint interop-/ interop- erable / erable war- / war- fighter / fighter communi-/ communi- cations / cations among / among all / all military/ military branches/ branches EHF / EHF termin- / termin- als / als	N/A	Support joint interop- erable war- fighter communi- cations among all military branches EHF termin- als
MILSTAR Backward Compatible	N/A	Operate / Operate with the/ with the Milstar / Milstar system, / system, at all / at all LDR and / LDR and MDR / MDR terminal/ terminal support-/ support- ed data / ed data rates, / rates, through-/ through- out the / out the Milstar / Milstar transi- / transi- tion to / tion to the AEHF/ the AEHF	N/A	Operate with the Milstar system, at all LDR and MDR terminal support- ed data rates, through- out the Milstar transi- tion to the AEHF

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(b)(1)

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10a. (U) Performance Characteristics (Cont'd):

	AS AMENDED	SAR	Approved	Demon-
(b)(1)				

Affordability	N/A	N/A	/ N/A	TBD	AS AMENDED
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(U) Acronyms:

AEHF - Advanced Extremely High Frequency
CP - Command Post
CMTW - Combined Major Theater War
EHF - Extremely High Frequency
EIRP - Effective Isotropic Radiated Power
HGEC - High Gain Earth Coverage
HRCA - High Resolution Coverage
LDR - Low Data Rate
LGEC - Low Gain Earth Coverage
MDR - Medium Data Rate
MILSATCOM - Military Satellite Communications
MRCA - Medium Resolution Coverage
NCGS - Nuclear Criteria Group Secretariat
ORD - Operational Requirements Document
SMART-T - Secure Mobile Anti-jam Reliable Tactical Terminal
STAR - System Threat Assessment Report
SOD - Standoff Distance

(b)(1)

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10a. ~~(S)~~ Performance Characteristics (Cont'd):

* (U) Set up/ tear down time less than one hour

(b)(1)



b. Current Change Explanations -- None

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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-265)
PROGRAM: F-22A Raptor

AS OF DATE: December 31, 2005

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Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): Advanced Tactical Fighter
2. (U) DoD Component: USAF
3. (U) Responsible Office and Telephone Number:

F-22 System Program Office	Col C.D. Moore
Aeronautical Systems Center	Assigned: October 24, 2005
WPAFB, OH 45433-7424	DSN 656-7511; COMM (937) 255-4167
	c.d.moore@wpafb.af.mil

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10. (U) Performance Characteristics:

a. Performance --

	SAR Production Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
Range-Mission Radius Sub & Supersonic**	260+100	260+100 / 260+100	322+100	322+100
Payload, Internal Missile Load**	6	6 / 6	6	6
	AIM-120	AIM-120 / AIM-120	AIM-120	AIM-120
	+ 2	+ 2 / + 2	+ 2	+ 2
	AIM-9	AIM-9 / AIM-9	AIM-9	AIM-9
Reduced All-Aspect Radar Cross Section (RCS)				
Front Sector RCS**/+	*	* / *	*	*#
Maneuverability (max power sustained G) (30000 ft) (Mach) @0.9 Mach**	3.9	3.9 / 3.7	3.7	3.7
Reliability, Maintainability, and Supportability				
C-17s / 24 Primary Aircraft Inventory (PAI) Squadron for Deployment	6	6 / 7	14##	6.6

(b)(1)

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Maintenance (MTBM) (hrs)**				
Supercruise**				
Vmax/Opt Alt/Mil	1.5	1.5 / 1.5	1.76	1.76
Power (Mr.)				
Acceleration/ 8-1 5/	54	54 / 54		

(b)(1)

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Interoperability	Accom- plish- ment of all IERS	Accom- / Accom- plish- / plish- ment of / ment of all IERS/ all / critical / top / level / IERS	90%	100% accompli shment of all critical top level IERS
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10a. (U) Performance Characteristics (Cont'd):

	SAR Production <u>Estimate</u>	Approved APB <u>Obj/Threshold</u>	Demon- strated <u>Perf</u>	Current <u>Estimate</u>
USD(A) Risk				
Assessment Items:				
Direct on-and-off	10.5	10.5 / 12.5	12.46	9.2
Maintenance				
Personnel (spaces per ac)				

(U) Acronyms:

USD(A) - Undersecretary of Defense for Acquisition
 IERs - Information Exchange Requirements
 IOT&E - Initial Operational Test and Evaluation
 Mil - Military
 Opt Alt - Optimum Altitude
 Vmax - Maximum Speed

(U) * Classification/control is beyond the level of this document.

(U) ** Indicates Operational Requirements Document (ORD) Key Performance Parameter (KPP) [Note: Airlift and MTBM KPPs are based upon F/A-22 system maturity (100,000 flight hours).]

(U) + Classified KPP values beyond level of this document can be viewed in the classified annexes of the F/A-22 ORD.

(U) # Current estimate is better than threshold.

(U) ## The Airlift KPP was demonstrated during Initial Operational Test and Evaluation (IOT&E) and met the interim Joint Requirement Oversight Council (JROC) requirement of 15 C-17s. The threshold requirement at maturity is 7 C-17s.

(U) ### The MTBM KPP was demonstrated during IOT&E and met the interim JROC requirement. The latest MTBM demonstrated at Nellis AFB during Force Development Evaluation was 1.8 while the requirement at maturity is 3.0.

b. Current Change Explanations -- None

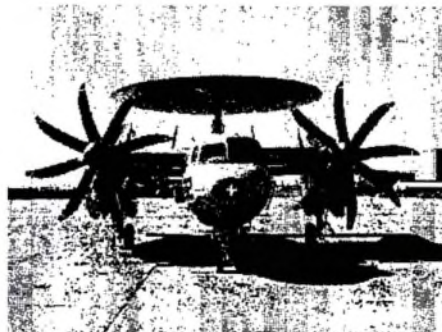
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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T (Q&A) 823-276)
PROGRAM: E-2C Reproduction

AS OF DATE: December 31, 2005

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Program Funding Summary	N/A
Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): E-2C Reproduction
2. (U) DoD Component: Navy
3. (U) Responsible Office and Telephone Number:
 PEO(T) Aircraft Programs (PMA-231) CAPT Randolph Mahr
 Bldg #2272, Suite 455, NAVAIRSYSCOM Assigned: May 9, 2005
 47123 Base Road Unit IPT DSN 757-7363; COMM (301) 757-7363
 Patuxent River, MD 20670-1547 randolph.mahr@navy.mil

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10. (U) Performance Characteristics:

a. Performance --

	SAR Production Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
Take off weight	55000	55000 / 55000	55000	55000
Length	57'6"	57'6" / 57'6"	57'6"	57'6"
Span	80'7"	80'7" / 80'7"	80'7"	80'7"
Engine				
Number	2	2 / 2	2	2
Type	T56-A-	T56-A- / T56-A-	T56-A-	T56-A-
	427	427 / 427	427	427
Crew	5	5 / 5	5	5
Speed (KIAS)				
Max Speed 313,500 ft	315	315 / 315	315	315
(KIAS)				
Cruise Speed	270	270 / 270	270	270
@ 24,540 ft.				
Time on Station @200	4.0	4.0 / 4.0	4.0	4.0
nm (hrs)				
Service Ceiling (ft)	28100	28100 / 28100	28100	28100
Passive Detection				
System	(b)(1)		(b)(1)	
Range (nm)		N/A / N/A		
Azimuth (deg)		N/A / N/A		
Radar Detection Range				
(AN/APS-145) (nm)				
Overwater (C-141		N/A / N/A		
target) (nm)				
Systems Accuracy (CEP		N/A / N/A		
to Target at 200 nm				
range) (nm)				
Mission Computer				
Upgrade (MCU)				
System Weight (lbs)	150	150 / 300	192	192
Load Time (sec)	45	45 / 270	227	227
In-Flight Reload	20	20 / 144	3.9	3.9
(sec)				
Operational	0.97	0.97 / 0.93	.98	.97
Availability				

(U) Acronyms:

AN/APS-145 - Advanced Airborne Surveillance Radar
 CEP - Circular Error Probable
 deg - Degree
 ft - Feet
 KIAS - Knots Indicated Air Speed
 lbs - Pounds
 nm - Nautical Mile
 sec - Second

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10b. (U) Performance Characteristics (Cont'd):

b. Current Change Explanations -- None

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A-13 JAVELIN

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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-280)
PROGRAM: Javelin

AS OF DATE: December 31, 2005

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Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): Advanced Anti-Tank Weapon System - Medium (Javelin)
2. (U) DoD Component: Army
Joint Participants:
United States Marine Corps
3. (U) Responsible Office and Telephone Number:
Department of Army COL Raymond H. Nulb
PEO Missiles and Space Assigned: November 21, 2005
ATTN: SFAE-MSLS-CWS DSN 746-0728; COMM (256) 876-0728
RSA, AL 35896-5750 raymond.nulb@msl.army.mil

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10. (U) Performance Characteristics:

a. Performance --

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	SAR Production Estimate	Approved APB Cbj/Threshold	Demon- strated Perf	Current Estimate	
Min range (m)	(b)(1)				
Degraded					
Full					
Max range (m)					
Hit probability					
P(h/reliable rnd)					
Kill probability					
Given a reliable shot (P(k/s))					
Given engagement opportunity (P(k/e))					
(U) System weight (lbs)	35	35 / 49.5	48.6	48.6	
(U) Missile operational reliability	.92	.92 / .92	.94	.94	
(U) Cmd Launch Unit MTBOMF (hrs)	129	129 / 129	505	505	(Ch-1)
(U) Cmd Launch Unit MTTR (hrs)	<1.5	<1.5 / 1.5	.77	.77	

(U) Acronyms:

MTBOMF - Mean Time Between Operational Mission Failures

MTTR - Mean Time To Repair

(U) NOTES:

- Objectives/thresholds/current estimates are at Milestone (MS) III except P(k/e) and Missile operational reliability. Values shown are objectives representing desired performance and minimum acceptable thresholds.

- Full lethality must be met at both minimum and maximum range.

- Probability of hit given a reliable round P(h/reliable round): Hit probabilities are specified for 7 km visibility (day/night) in benign environments. Must hit a fully exposed standard NATO target (2.3m H x 2.3m W x 4.6m L) stationary or moving (crossing velocity up to 20 km/hr) at all ranges (min to max). The hit probability must be attained given any attack azimuth or elevation angle (relative to target) given a shot with a reliable system.

- Probability of kill given a reliable shot P(k/s): A reliable shot is defined by a reliable launch and reliable flight. The P(k/s) must be attained against both stationary and evasively maneuvering targets at all ranges (min to max).

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10a. (U) Performance Characteristics (Cont'd):

- Probability of kill given an engagement opportunity $P(k/e)$: Values shown are defined at 1200 meters in fog oil or white phosphorous against a specific threat target.

- Missile Operational Reliability is established at system maturity which is three years after MSIII (May 2000).

b. Current Change Explanations --

(U) (Ch-1) Previous estimate and demonstrated performance for CLU MTBOMF changed from 328 hours to 505 hours based on CLU reliability data from both testing and field usage.

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N-34 TACTICAL TOMAHAWK

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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-289)
PROGRAM: TOMAHAWK(R/UGM-109E)

AS OF DATE: December 31, 2005

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Contract Information	N/A
Program Funding Summary	N/A
Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): Block IV TOMAHAWK (Tactical Tomahawk)
2. (U) DoD Component: Navy
3. (U) Responsible Office and Telephone Number:
PEO Strike Weapons and Unmanned Aviation CAPT R.M. MCQUEEN
47123 Buse Rd., Bldg 2272 Assigned: July 25, 2005
Patuxent River, MD 20670-1547 DSN 757-6408; COMM 301-757-6408
rick.mcqueen@navy.mil

~~Derived from: OPAW 55513.2B
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10. (U) Performance Characteristics:

a. Performance --

	SAR Production Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
(b) Accuracy Land Attack CEP (ft.)	(b)(1)			
(b) ECCM Jam Resistance				
(b) GPS/Navigation (dBW)				
(b) Mission Reliability (%)				
(b) Cruise Reliability (%)				
(b) Range Operational (km)				

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Summary

(U) Acronyms:

CEP-Circular Error Probable
dBW-Decibels in Watts
ECCM-Electronic Counter Counter Measure
GPS-Global Positioning System
km-kilometer

(b)(1)	(b)(1)
(b)(1)	(b)(1)

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(U) (Range Operational): Value stated as Operational Range, given standard conditions, Mach 0.65.

(U) Demonstrated Mission Reliability (MR) and Cruise Reliability (CR) are based upon a Point Estimate approach, which includes 57 MR and 54 CR credible test events. Credible test events include OPEVAL, TECHEVAL, Tactical Tomahawk Penetrating Vehicle flights, contractor flights, ground, and accredited hardware and software simulation testing. Point Estimate approach was the same methodology that Commander, Operational Test and Evaluation Force (OPTEVFOR) utilized however, demonstrated performance presented above utilizes all credible test events. OPTEVFOR acknowledged in its own OPEVAL report as a stated limitation that..."the limited data did not allow a statistically significant sample size in the analysis of missile performance." As additional Operational Test Launches (OTL) occur, demonstrated performance data will be updated.

(U) PM's Current Estimates of Cruise and Mission Reliability are based upon the OSD accepted (MILHDBK-189) Lloyd-Lipow methodology for predicting the reliability of single use weapons when the root cause of a weapon failure is known and corrective action has been implemented. PM's Estimate has been briefed to NAVAIR 4.0 and has received his concurrence in estimate. The identification of root causes to flight anomalies and implementation of

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10a. ~~(S)~~ Performance Characteristics (Cont'd):

corrective action by the contractor in addition to increasing number of quality audits has changed the current estimates for both Mission Reliability and Cruise Reliability.
As additional OTLs occur, estimates in performance data will be updated.

b. Current Change Explanations -- None

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AF-15 MM III GRP

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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-302)
PROGRAM: Minuteman (MM) III GRP

AS OF DATE: December 31, 2005

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Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): Minuteman III Guidance Replacement Program
2. (U) DoD Component: USAF
3. (U) Responsible Office and Telephone Number:
526 FSSG/GMFF Maj Deborah Driver
6031 GJM LANE Assigned: November 1, 2005
HILL AFB, UT 84056-5826 DSN 777-3422; COMM (801) 777-3422
Deborah.Driver@hill.af.mil

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10. (U) Performance Characteristics:

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a. Performance --

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SAR Production Estimate	Approved APB Cost (Threshold)	Demon- strated Range	Current Estimate
-------------------------------	-------------------------------------	----------------------------	---------------------

(b)(1)



(U) Acronyms:

ft - feet
G&C - Guidance and Control
MOTR - Miss Other Than Reentry
sec - seconds

(b)(1)



b. Current Change Explanations -- None

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N-2 AESA

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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-330)
PROGRAM: AESA

AS OF DATE: December 31, 2005

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Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): Active Electronically Scanned Array (AESA) Radar (AN/APG-79)
2. (U) DoD Component: Navy
3. (U) Responsible Office and Telephone Number:
NAVAIRSYSCOMHQ
47123 Buse Road, Unit IPT
BLDG 2772, Suite 445
Patuxent River, MD 20670-1547
CAPT Donald E. Gaddis
Assigned: May 30, 2003
DSN 757-7669; COMM 301-757-7669
donald.gaddis@navy.mil

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10. (U) Performance Characteristics:

a. Performance --

KEY PERFORMANCE PARAMETERS (KPPs) (Specified in AESA ORD)	SAR Planning <u>Estimate</u>	Approved APB <u>Obj/Threshold</u>	Demon- strated <u>Perf</u>	Current <u>Estimate</u>
Interoperability	Achieve all IERs	Achieve / Achieve all IERs/ All / Critical	TBD	Achieve All IERs

1. Near Simultaneous
(b)(1)

2. Multiple (Air-to-Air)
Target Track (NM)
3. SAR Imagery Expand
(b)(1)

4. SAR TLE:

5. Horizontal
TLE-A 315NM
Range (feet
CEP)

6. Horizontal TLE-B
@20NM Range (feet
CEP)

7. AESA Operational

Availability (A sub
C

(U) Acronyms:

CEP-Circular Error Probability

IER-Information Exchange Requirement

NM-Nautical Mile

ORD-Operational Requirements Document

SAR-Synthetic Aperture Radar

TLE-Target Location Error

(b)(1)

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(b)(1)

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10b. ~~(S)~~ Performance Characteristics (Cont'd):

b. Current Change Explanations -- None

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N-21 LHA REPLACEMENT

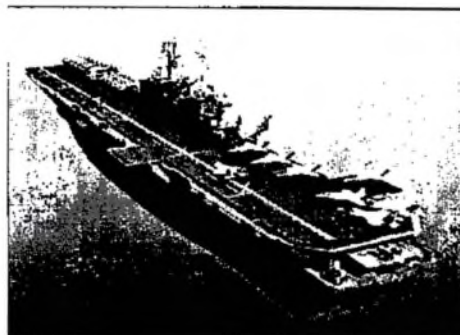
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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-333)
PROGRAM: LHA 6

AS OF DATE: December 31, 2005

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Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): LHA Replacement Amphibious Assault Ship

2. (U) DoD Component: Navy

Joint Participants:
N/A

3. (U) Responsible Office and Telephone Number:

PROGRAM EXECUTIVE OFFICE, SHIPS CAPT. RICHARD W. HOOPER
AMPHIBIOUS WARFARE PROGRAM OFFICE Assigned: September 20, 2002
1333 ISACS EMBLE AVENUE DSN 326-0940; COMM (202) 781-0940
WASHINGTON, DC 20376-2101 richard.hooper@navy.mil

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10. (U) Performance Characteristics:

a. Performance --

	SAR Development Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
Net Ready	100% of inter- faces; ser- vices; policy- enforce- ment con- trols; and data correct- ness, availa- bility and process- ing require- ments in the joint integra- ted ar- chitec- ture	100% of / 100% of inter- / inter- faces; / faces; ser- / ser- vices; / vices; policy- / policy- enforce- / enforce- ment / ment con- / con- trols; / trols; and data/ and correct-/ data ness, / correct- ness, / ness, availa- / avail- bility / avail- and / ability process-/ and ing / process- require-/ ing ments in/ require- the / ments joint / desig- integra-/ rated as ted ar- / enter- chitec- / prise ture / level or / critical / in the / joint / integra- / ted ar- / chitec- / ture	TBD	100% of inter- faces; scr- vices; policy- enforce- ment con- trols; and data correct- ness, availa- bility and process- ing require- ments in the joint integra- ted ar- chitec- ture
Vertical Take Off and Landing land/launch spots	9 CH-53E/ MV-22	9 CH-53E/ / CH-53E/ MV-22 / MV-22	TBD	9 CH-53E/ MV-22
F-35B capacity	23 Aircraft	23 / 20 Aircraft/ Aircraft	TBD	23 Aircraft
Aviation operations	6 Spots 12 hrs/ day(Sus- tained) 6 Spots 24 hrs/ day for	6 Spots / 6 Spots 12 hrs/ / 12 hrs/ day(Sus-/ day(Sus- tained) / tained) 6 Spots / 6 Spots 24 hrs/ / 24 hrs/ day for / day for	TBD	6 Spots 12 hrs/ day(Sus- tained) 6 Spots 24 hrs/ day for

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10a. (U) Performance Characteristics (Cont'd):

	SAR Development <u>Estimate</u> six con- secutive days (Surge)	Approved APB <u>Obj/Threshold</u> six con- / six con- secutive/ secutive days / days (Surge) / (Surge)	Demon- strated <u>Perf</u>	Current <u>Estimate</u> six con- secutive days (Surge)
Vehicle space	12,000	12,000 / 10,000	TBD	12,000
Total manpower (includes ship's force and all embarked elements such as troops, staffs, detachments, etc.)	2,891	2,891 / 2,891	TBD	2,891
Cargo space	160,000	160,000 / 130,000	TBD	160,000
Troop accommodations	1,686	1,686 / 1,626	TBD	1,686
Survivability: Navy Survivability Policy for Surface Ships	Equals thres- hold, imple- ment recom- menda- tions of the NAVSEA COLE Surviva- bility Review Group Phase II Analysis Report of Amphibi- ous Ships, Apr 2003	Equals / Level II thres- / per hold, / OPNAV- imple- / INST ment / 9070.1 recom- / of 23 menda- / Sep 1988 tions / (LHA(R) of the / cargo NAVSEA / magazine COLE / protec- Surviva- / tion as bility / stated Review / in Group / para. Phase II / 6.b.17 Analysis / of the Report / CDD of / Amphibi- / ous / Ships, / Apr 2003 /	TBD	Equals thres- hold, imple- ment recom- menda- tions of the NAVSEA COLE Surviva- bility Review Group Phase II Analysis Report of Amphibi- ous Ships, Apr 2003

(S) Survivability:
Low-slow flyer
defense (X proba-
bility of kill per
per low-slow flyer
against a target
raid of Y low-slow
flyer threats by 500

(b)(1)

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10a. (U) Performance Characteristics (Cont'd):

	<u>SAR</u> <u>Development</u> <u>Estimate</u>	<u>Approved</u> <u>APB</u> <u>Obj/Threshold</u>	<u>Demon-</u> <u>strated</u> <u>Perf</u>	<u>Current</u> <u>Estimate</u>
yards) - Parameters: Altitude 10 ft-20,000 feet; speed 3-200 nm/hr; greater tha	(b)(1)			
Survivability: Small boat defense (X probability of cata- strophic kill per boat against a target raid of Y small boat threats by 500 yards)	Expanded CBR protec- tion that provides a toxic- free environ- ment (where it is not neces- sary to wear protec- tive clothing or masks) for 40% of crew in berth- ing, messing, sani- tary, and battle dressing facili- ties as well as key	Expanded/ CBR CBR / protec- tion / tion that / that provides/ a toxic- free / free environ- / environ- ment / ment (where / (where it is / it is not / not neces- / neces- sary to / sary to wear / wear protec- / protec- tive / tive clothing/ clothing or / or masks) / masks) for 40% / for 40% of crew / of crew in / in berth- / berth- ing, / ing, messing, / messing, sani- / sani- tary, / tary, and / and battle / battle dressing / dressing facili- / facili- ties as / ties as well as / well as key / key	TBD	Expanded CBR protec- tion that provides a toxic- free environ- ment (where it is not neces- sary to wear protec- tive clothing or masks) for 40% of crew in berth- ing, messing, sani- tary, and battle dressing facili- ties as well as key

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10a. (U) Performance Characteristics (Cont'd):

	SAR Development	Approved APB	Demon- strated	Current
	<u>Estimate</u>	<u>Obj/Threshold</u>	<u>Perf</u>	<u>Estimate</u>
	opera-	opera- /		opera-
	tional	tional /		tional
	spaces	spaces /		spaces
	that can	that can/		that can
	be	be /		be
	afford-	afford- /		afford-
	ably	ably /		ably
	inte-	inte- /		inte-
	grated	grated /		grated
	into	into /		into
	ship	ship /		ship
	design	design /		design
Force Protection:	Four	Four / Four	TBD	Four
Decontamination:	decon-	decon- / decon-		decon-
Stations	tamina-	tamina- / tamina-		tamina-
	tion	tion / tion		tion
	stations	stations/ stations		stations
	(two	(two / (two		(two
	CPS, one	CPS, one/ CPS, one		CPS, one
	casual-	casual- / casual-		casual-
	ty, and	ty, and / ty, and		ty, and
	one	one / one con-		one
	conven-	conven- / vention-		conven-
	tional)	tional) / al) pro-		tional)
	provid-	provid- / viding a		provid-
	ing a	ing a / capabil-		ing a
	capabil-	capabil- / ity of		capabil-
	ity of	ity of / decon-		ity of
	decon-	decon- / tamina-		decon-
	tamina-	tamina- / tion an		tamina-
	tion	tion / avg of		tion
	an avg	an avg / ten		an avg
	of ten	of ten / people		of ten
	people	people / per hr		people
	per hr	per hr / per		per hr
	per	per / station		per
	station	station /		station

(U) Acronyms:
Acronyms:

avg. - average
CBR - Chemical, Biological, Radiological
CDD - Capability Development Document
cu. ft. - cubic feet
ft - feet
hr - hour
nm - nautical mile

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10a. (U) Performance Characteristics (Cont'd):

sq. ft. - square feet
sqm - square meters

b. Current Change Explanations -- None

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PROGRAM: SSGN

AS OF DATE: December 31, 2005

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Program Funding Summary	N/A
Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): OHIO CLASS SSGN CONVERSION
2. (U) DoD Component: Navy
3. (U) Responsible Office and Telephone Number:
SSGN PROGRAM OFFICE (PMS398) CAPT. David T. Norris
PEO SUBMARINES Assigned: August 1, 2005
614 SICARD STREET, SE DSN 326-4235; COMM 202-781-4235
WASHINGTON NAVY YD, DC 20376-7034 david.t.norris@navy.mil

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10. (b) Performance Characteristics:

a. Performance --

	SAR Production Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
*Interoperability	100% of top- level IERS	100% of / 100% of top- / top- level / level IERS / IERS / designa- / ted / critical	TBD	100% of top- level IERS
*Land Attack/Strike Warfare - "A Full Strike Configured"	"x" = 154	"x" = 154 / 132	TBD	"x" = 154

(b) *Land Attack/Strike
Warfare Operational
Availability (Ao)
Special Operations
Forces (SOF)
Operations Support
*SOF Mobility Assets

(b)(1) [Redacted] TBD

(b)(1) [Redacted]

Ability to support 2 ASDS, or 2 DDS, or 1 ASDS and 1 DDS simulta- neously	Ability / Ability to / to support / support 2 ASDS, / 2 or 2 / ASDS, or DDS, or / 2 DDS, 1 ASDS / or 1 and 1 / ASDS DDS / and 1 simulta- / DDS neously / simulta-	TBD
---	---	-----

Ability
to
support
2 ASDS,
or 2
DDS, or
1 ASDS
and 1
DDS
simulta-
neously

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*System
Operational
Availability (Ao)
*Full SOF
Configured" - SOF
Personnel

(b)(1) [Redacted] TBD

(b)(1) [Redacted]

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10a. ~~(S)~~ Performance Characteristics (Cont'd):

	SAR Production Estimate	Approved APB Obs/Threshold	Demon- strated Perf	Current Estimate
(S) Endurance	(b)(1)		BD	(b)(1)
(S) Maximum Transit Speed with DDS or ASDS attached			BD	
(S) Radiated Broad Band Noise			BD	
(S) Radiated Narrow Band Noise			BD	

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10a. ~~(S)~~ Performance Characteristics (Cont'd):

	SAR Production Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
(S) Exceptions to Noise Requirements - SOF Operations Support	(b)(1)		BD	(b)(1)
(S) Exceptions to Noise Requirements - Land Attack/Strike Warfare Launch Operations			BD	

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10a. (U) Performance Characteristics (Cont'd):

	SAR Production Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
(b)(1)	(b)(1)			(b)(1)
Land Attack/Strike and Warfare Attributes				
(U) Average Tomahawk Launch Interval			TBD	
TLAM Block III Single Mission Response Time			TBD	
Tactical Tomahawk Single Mission Response Time			TBD	
Tomahawk Multi-Mission Response Time			TBD	
SOF Operations Support Attributes				
(U) Number of sorties per single DDS per typical SSGN deployment period			TBD	(b)(1)
(U) Number of sorties per single ASDS per typical SSGN deployment period			TBD	
(U) Number of sorties per single LOC per typical SSGN deployment period			TBD	
Internal Stowage - SEASUB Ordnance while SSGN is in a Land Attack/Strike Warfare configuration	136 ft3	136 ft3 / 114 ft3	TBD	136 ft3
Internal Stowage - SEASUB Non-Ordnance while SSGN is in a Land Attack/Strike Warfare configuration	>= 224 ft3	>= 224 ft3 / >= 200 ft3	TBD	>=224 ft3
(U) Berthing	(b)(1)		TBD	(b)(1)

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Summary

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10a. (U) Performance Characteristics (Cont'd):

	SAR Production Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
(C) Reconfigurable for maximum SOF stowage	(b)(1)		TBD	(b)(1)
Organic Lock-out			TBD	
	Lock-out Chambers	Lock-out/ Chambers/	Lock-out Chambers	Lock-out Chambers

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(U) Acronyms:

ASDS Advanced SEAL Delivery System
 DDS DryDeck Shelter
 ft3 Cubic feet
 IER Information Exchange Requirement
 kts Knots
 LOC Lock Out Chamber
 SEASUB External stowage for Special Operation Forces Operations
 SOF Special Operations Forces
 TLAM Tomahawk Land Attack Missile

(U) * KPP (Key Performance Parameter)

b. Current Change Explanations -- None

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March 31, 2006

**BALLISTIC MISSILE DEFENSE SYSTEM (BMDS)
BLOCK BASELINES AND GOALS (U)**

(b)(5)



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Lieutenant General, USAF
Director

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BMDS BLOCK BASELINES AND GOALS (U)



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SECTION I

INTRODUCTION (U)

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SECTION II

FIELDING BASELINES (U)

BLOCK 2004 (U)

BLOCK 2006 (U)

~~SECRET // REL TO USA, AUS and GBR //~~

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SECTION III

APPENDICES (U)

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APPENDIX E: ACRONYMS (U)

A

(U) ABL	Airborne Laser
(U) ACD	Adversary Capabilities Document
(U) AFB	Air Force Base
(U) AN/MPQ-53	PATRIOT System Phased Array Radar
(U) AN/MPQ-65	PATRIOT System Phased Array Radar
(U) AN/SPY-1	Aegis Organic Phased Array Radar
(U) AOR	Area of Responsibility

B

(U) BM	Battle Management
(U) BMD	Ballistic Missile Defense
(U) BMDS	Ballistic Missile Defense System
(U) BSP	BMD Signal Processor
(U) BV+	Boost Vehicle Plus

C

(U) C2BMC	Command, Control Battle Management & Communications
(U) CD	Capability Development
(U) CENTCOM	Central Command
(U) CG	Cruiser (U.S. Navy)
(U) COCOM	Combatant Commander
(U) COMSEC	Communication Security
(U) CONOPS	Concept of Operations
(U) CONUS	Continental United States

D

(U) DA	Defended Area
(U) DAL	Defended Asset List
(U) DDG	Destroyer (U.S. Navy)
(U) DECC	Defense Enterprise Computing Center
(U) DoD	Department of Defense
(U) DSP	Defense Support Program

E

(U) ECS	Environment Control System
(U) EKV	Exoatmospheric Kill Vehicle
(U) ESG	Engagement Sequence Group
(U) EUCOM	European Command

F

(U) FBX-T	Forward-Based X-Band Radar - Transportable
(U) FC	Fielded Configuration
(U) FOUO	For Official Use Only

G

(U) GBI	Ground Based Interceptor
(U) GIFC	Global Integrated Fire Control
(U) GEM	Guidance Enhanced Missile
(U) GEM+	Guidance Enhanced Missile Plus
(U) GFC	GMD Fire Control

(U) GFC/C	GMD Fire Control/Communications
(U) GMD	Ground-based Midcourse Defense
H	
(U) HEL	High Energy Laser
(U) HEO	Highly Elliptical Orbit
(U) H/W	Hardware
(U) HWIL	Hardware-in-the-Loop
I	
(U) IR	Infrared
(U) IRBM	Intermediate-Range Ballistic Missile
J	
(U) JNIC	Joint National Integration Center
K	
(U) KEI	Kinetic Energy Interceptor
(U) KV	Kill Vehicle
L	
(U) LAD	Launch Area Denied
(U) LDO	Limited Defensive Operations
(U) LRBM	Long-Range Ballistic Missile
(U) LREP	Lightweight Replica
(U) LRS&T	Long-Range Surveillance and Track
M	
(U) MDA	Missile Defense Agency
(U) Mod	Modification (ESG-related)
(U) MRBM	Medium-Range Ballistic Missile
O	
(U) O&S	Operations & Support
(U) OBV	Operational Boost Vehicle
(U) OSD	Office of the Secretary of Defense
P	
(U) PAC-3	PATRIOT Advanced Capability-3
(U) PACOM	Pacific Command
(U) PATRIOT	Phased Array Tracking Radar Intercept on Target
(U) P _{ES}	Probability of Engagement Success
(U) P _{SSK}	Probability of Single Shot Kill
R	
(U) RAM	Radar Absorbent Material
(U) RF	Radio Frequency
(U) RSC	Raid Size Capacity
(U) RV	Reentry Vehicle
S	
(U) S&T	Surveillance and Track
(U) SA	Situational Awareness
(U) SATCOM	Satellite Communications
(U) SBIRS	Space-Based Infrared System
(U) SBX	Sea-Based X-Band Radar
(U) SECDEF	Secretary of Defense

~~SECRET // REF TO CSA, AC, and ODR~~

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(U) SM-3	Standard Missile-3
(U) SOG	Statement of Goals
(U) SRBM	Short-Range Ballistic Missile
(U) STRATCOM	Strategic Command
(U) STSS	Space Tracking and Surveillance System
(U) S/W	Software
T	
(U) TBD	To Be Determined
(U) THAAD	Terminal High Altitude Area Defense
(U) TOG	Technical Objectives and Goal
U	
(U) UEWR	Upgraded Early Warning Radar
W	
(U) WH	White House

~~SECRET // REF TO CSA, AC, and ODR~~

E-3

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(b)(5)

(b)(5)

(b)(5)



(b)(5)

~~SECRET // REL TO USA, AC, and NATO~~

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N-13 E-2D AHE

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PROGRAM: E-2D AHE

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Unit Cost and Other History	N/A
Contract Information	N/A
Program Funding Summary	N/A
Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): E-2D Advanced Hawkeye
2. (U) DoD Component: Navy
3. (U) Responsible Office and Telephone Number:
PEO(7) Aircraft Programs (PMA-231) CAPT Randolph Mahr
BLDG #2272, Suite 455, NAVAIRSYSCOM Assigned: May 9, 2005
47123 Base Road, Unit IPT DSN 757-7363; COMM (301) 757-7363
Patuxent River, MD 20670-1547 randolph.mahr@navy.mil

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Downgrade instructions:
Downgrade on: X3~~

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06-C-0564

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10. (U) Performance Characteristics:

a. Performance --

	SAR Development Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
Operational Availability (Ao)	(b)(1)			
Detection Range				
Tracking				
(U) Acronyms: NM Nautical Miles				

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b. Current Change Explanations -- None

*** ~~SECRET~~ ***

N-7 COBRA JUDY

*** ~~SECRET~~ // ~~NOFORN~~

SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-365)
PROGRAM: COBRA JUDY REPLACEMENT

AS OF DATE: December 31, 2005

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Program Funding Summary	N/A
Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): COBRA JUDY REPLACEMENT (CJR)
2. (U) DoD Component: Navy
3. (U) Responsible Office and Telephone Number:
Commander, Naval Sea Systems Command CAPT Sheila Patterson
Attn: PEO IWS 2.0 (CAPT Patterson) Assigned: November 1, 2004
1333 Isaac Hall Ave., SE, Stop 2318 DSN 326-2625; COMM (202) 781-2625
Washington, Navy, DC 20376-2318 sheila.a.patterson@navy.mil

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030819
Downgrade instructions: X1, X3
Reasoning on: Not Subject to Automatic Downgrade~~

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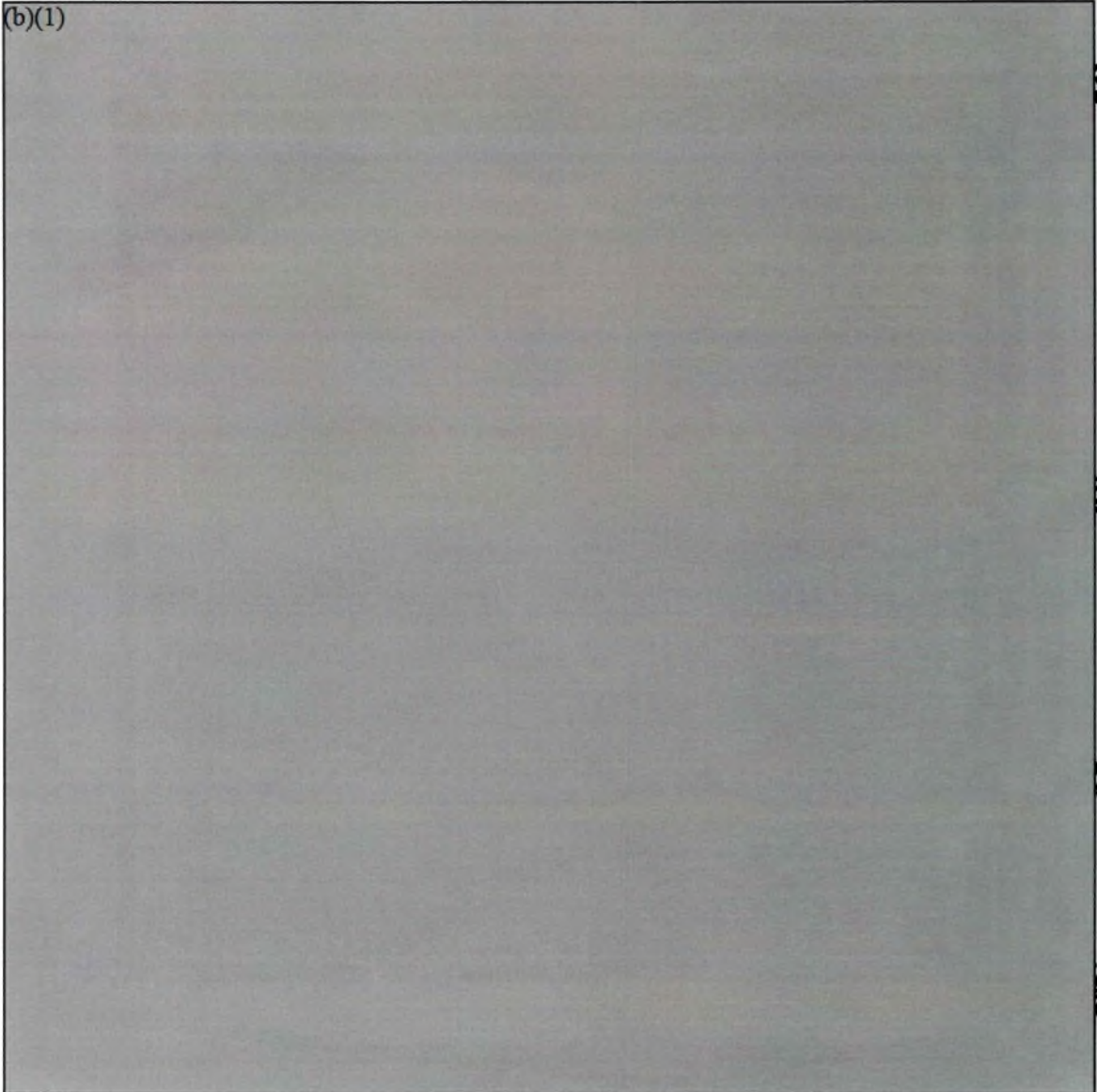
06-C-0570

*** ~~SECRET~~ // ~~NOFORN~~

~~(S)~~ Executive Summary Classified Addendum (U)

~~(S)~~ The following paragraphs are classified ~~SECRET/NOFORN~~ in their entirety.

(b)(1)



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*** ~~SECRET~~ // ~~NOFORN~~

~~(S)~~ *** ~~SECRET~~ ~~1/16/88~~
10. ~~(U)~~ Performance Characteristics: ~~(U)~~

a. Performance --

~~(S)~~ Radar Detection and Tracking

~~(S)~~ Radar Signature Data Collection

SAR
Development
Estimate

Approved
APB

Demon-
strated
Perf

Current
Estimate

(b)(1)

TBD

(b)(1)

TBD

AS AMENDED

10a. (U) Performance Characteristics (Cont'd) (A)

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SAR Development Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
--------------------------------	----------------------------------	---------------------------	---------------------

(b)(1)

(b)(1)

Radar Range Resolution

BD

(U) Propulsion Plant,
Sustained and Loiter
Speed

Ship	Ship	Ship	Ship
Duration = 12,000 NM.	Duration/ = 12,000/ NM.	Duration/ = 12,000/ NM.	Duration = 12,000 NM.
The ship shall be capable of travel- ing 12,000 NM at 20 knots sustain-	The ship/ shall be/ capable / of / travel- / ing / 12,000 / NM at / 20 knots/ sustain-	The ship shall be capable of travel- ing 12,000 NM at 20 knots sustain-	The ship shall be capable of travel- ing 12,000 NM at 20 knots sustain-

BD

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10a. (U) Performance Characteristics (Cont'd) (U)

	SAR Development Estimate	Approved APB Obj./Threshold	Demon- strated Perf	Current Estimate
(U) Mission Capable Rates and Inherent Availability (Ai)	ed speed System Availa- bility = 90%. In order to achieve the FMC Ai require- ment, the CJR system must be avail- able at least 90% of the time. FMC for the CJR is de- fined as both the platform and mission equip- ment func- tioning as required to achieve the opera- tional mission 100% of all Top- Level IERS	ed / ed speed / speed System / System Availa- / Availa- bility = / bility = 90%. / 90%. In order / In order to / to achieve / achieve the / the FMC Ai / FMC Ai require- / require- ment, / ment, the CJR / the CJR system / system must be / must be avail- / avail- able at / able at least / least 90% of / 90% of the / the time. / time. FMC for / FMC for the CJR / the CJR is de- / is de- fined / fined as both / as both the / the platform / platform and / and mission / mission equip- / equip- ment / ment func- / func- tioning / tioning as / as required / required to / to achieve / achieve the / the opera- / opera- tional / tional mission / mission 100% of / 100% of all / Top- Top- / Level Level / IERS IERS / designa-	TBD	ed speed System Availa- bility = 90%. In order to achieve the FMC Ai require- ment, the CJR system must be avail- able at least 90% of the time. FMC for the CJR is de- fined as both the platform and mission
(U) Interoperability - All top-level Informational Exchange Requirements (IERS)	100% of all Top- Level IERS	100% of / 100% of all / Top- Top- / Level Level / IERS IERS / designa-	TBD	100% of all Top- Level IERS

*** UNCLASSIFIED ***

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 10a. (U) Performance Characteristics (Cont'd): (U)

	SAR Development <u>Estimate</u>	Approved APB <u>Obj./Threshold</u>	Demon- strated <u>Perf</u>	Current <u>Estimate</u>
will be satisfied to the standards identified in the threshold and objective values in CJR Top-Level Information Exchange Requirements Matrix		/ ted / critical / IERs / 1-5)		
Receipt of higher authority direction - C2 - Ops guidance, directives, and orders	(b)(1)		TBD	(b)(1)
Receipt of mission guidance - C2 - Guidance, priorities, directives, orders, and plans			TBD	
Receipt of tip-off - Target Launch Warning and Information			TBD	
Raw and semi processed mission data - Metrics & Limited Signature			TBD	
Conduct Maritime Shipping, Distress, Search and Rescue - Voice, Data (Charts/Maps) / Send Node: Mil/Com/Private Ships, Shore and Aircraft / Receive Node: CJR			TBD	

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10a. (U) Performance Characteristics (Cont'd) (U)

	SAR Development Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
Conduct Maritime Shipping, Distress, Search and Rescue - Voice, Data (Charts/Maps) / Send Node: CJR / Receive Node: Mil/Com/Private Ships, Shore and Aircraft	(b)(1)		TBD	(b)(1)

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(U) Acronyms:

Ai -Inherent Availability
C2 -Command and Control
com -commercial
CJR -COBRA JUDY REPLACEMENT
dB -Decibel
FMC -Full Mission Capability
hrs -hours
Hz -Hertz
IER -Information Exchange Requirement
km -Kilometer
m -Meter
NM -Nautical Mile
mil -military
min -Minute
Ops -Operations
Pd -Probability of Detection
PRF -Pulse Repetition Frequency
RCS -Radar Cross Section
Sec -Second
SNR -Signal-to-Noise Ratio
Sq -Square
TBD -To Be Determined

(U) The performance data marked " " above is classified as ~~SECRET/NOFORN~~.

b. Current Change Explanations -- None

~~SECRET~~

N-3 AGM-88E (AARGM)

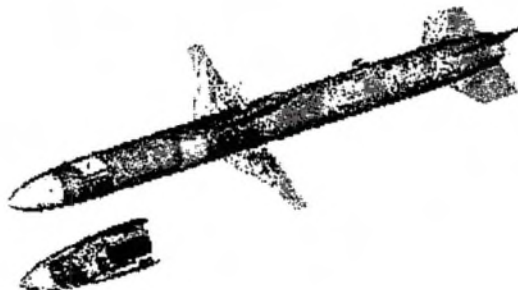
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PROGRAM: AGM-88E AARGM

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Cost Variance Analysis	N/A
Unit Cost and Other History	N/A
Contract Information	N/A
Program Funding Summary	N/A
Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): AGM-88E Advanced Anti-Radiation Guided Missile (AARGM)

2. (U) DoD Component: Navy

Joint Participants:
Italian Ministry of Defense

3. (U) Responsible Office and Telephone Number:

PEO(W)	CAPT Mark Converse
Attn: PMA-242, Bldg 2272, R252	Assigned: June 19, 2003
47123 Buse Road, Unit IPT	DSN 757-7422; COMM 301-757-7422
Patuxent River, MD 20670-1557	mark.converse@navy.mil

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Downgrade Instructions
Declassify on: X3~~

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10. (U) Performance Characteristics:

a. Performance --

	SAR Development Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
/ Interoperability	(b)(1)		TBD	(b)(1)
/ Probability of Kill w/threat shutdown			TBD	
/ Availability (Ao)			TBD	
/ Probability of Correct ID of a Valid Target Emitter			TBD	
/ Frequency Range			TBD	
/ Probability of Emitter Identification			TBD	
/ Probability of Emitter Identification			TBD	

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10a. (U) Performance Characteristics (Cont'd):

	SAR Development Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
Probability of Emitter Identification	(b)(1)			

(U) Acronyms:

Ao	Availability
GHz	Giga Hertz
ID	Identification
IER	Information Exchange Requirements
P-kf	Probability of Firepower Kill
P-kk	Probability of Catastrophic Kill
TBD	To be Determined

b. Current Change Explanations -- None

*** ~~SECRET~~ ***

A-1 ACS

*** ~~SECRET~~ ***

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PROGRAM: ACS

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Program Funding Summary	N/A
Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): Aerial Common Sensor
2. (U) DoD Component: Army
3. (U) Responsible Office and Telephone Number:
Product Manager Aerial Common Sensor LLC Steven Drake
ATTN: SFAE-IEW&S-ACS Assigned: May 15, 2003
Ft Monmouth, NJ 07703-5000 DSN 987-5211; COXM 732-427-5211
steven.drake@us.army.mil

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~~Classified by: ACS Security Classification Guide
Downgrade instructions: ASD, October 20, 2003
Declassify on: Originating Agency Determination Required~~

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de-c-0490

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10. (U) Performance Characteristics:

a. Performance --

	SAR Development Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
Interoperability	Capable of support- ing 100% of all top level IERS in the ACS IER matrix in the ORD	Capable / Capable of / of support- / support- ing 100% / ing 100% of all / of all top / top level / level IERS in / IERS the ACS / identi- IER / fied as matrix / critical in the / in the ORD / ACS IER / matrix / in the	TBD	Capable of sup- porting 100% of all top level IERS in the ACS IER matrix in the ORD

~~(S)~~ Multi-Sensor Targeting
Support

~~(S)~~ SIGINT

IMINT
SAR

MTI

Reliability

(U) Acronyms:

ATACMS - Army Tactical Missile System
IERS - Information Exchange Requirements
IMINT - Imagery Intelligence
MLRS - Multiple Launch Rocket System
MTBSA - Mean Time Between System Abort
MTI - Moving Target Indicator
SAR - Synthetic Aperture Radar

*** ~~SECRET~~ ***

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10a. (U) Performance Characteristics (Cont'd):

SIGINT - Signals Intelligence
TBD - To Be Determined
ORD - Operational Requirements Document

(U) Notes -

1) The Performance Characteristics of the Army and Navy Airborne Intelligence, Surveillance and Reconnaissance (ISR) missions are currently being assessed. Upon completion of joint ISR studies and further analyses, specific capabilities sets will be identified and incorporated in a future airborne ISR contract restart, currently expected in FY09.

b. Current Change Explanations -- None

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PROGRAM: JLENS

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Cost Variance Analysis	N/A
Unit Cost and Other History	N/A
Contract Information	N/A
Program Funding Summary	N/A
Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



- (U) Designation and Nomenclature (Popular Name): Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS)
- (U) DoD Component: Army
- (U) Responsible Office and Telephone Number:

Project Manager	COL Edward L. Mullin
Cruise Missile Defense Systems	Assigned: August 2, 2005
Building 5308	DSN 746-4927; COMM 256-876-4927
Redstone Arsenal, AL 35898-5000	Edward.Mullin@msl.army.mil

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06-C-0498

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10. (U) Performance Characteristics:

a. Performance --

	SAR Development <u>Estimate</u>	Approved APB <u>Obj/Threshold</u>	Demon- strated <u>Perf</u>	Current <u>Estimate</u>
SIAP KPP	360	360 / 360	TBD	360
Surveillance coverage (deg)	(b)(1)			
Fire Control				
Coverage (degs)				
Intercept Range (km)	(b)(1)			
Radar Cross Section (RCS) (sq m)				
Target Altitude (ft)				
Integrated Fire Control (IFC) KPP	Forward Pass (FP)	Forward / Engage- Pass / on- (FP) / Remote / (EOR)	TBD	Forward Pass
Combat ID KPP	(b)(1)			
Classification Determination (%)				
Classification Type Characterization (%)				
Discrimination Accuracy (%)	(b)(1)			
Identification				
Friend or Foe (IFF)				
Precise Participant Location Identifi- cation (PPLI)	All DoD Vali- dated IFF and Warsaw Pact/ Coali- tion modes Correlat- ed PPLI messages w/JLENS organic tracks	All DoD / All DoD Vali- / vali- dated / dated IFF and / IFF Warsaw / modes Pact/ / Coali- / tion / modes / Correlat- / Correlat- ed PPLI/ ted PPLI messages/ messages w/JLENS / w/JLENS organic / organic tracks / tracks	TBD	All DOD Validate d IFF and Warsaw Pact/Coa lition modes Correlat ed PPLI messages with JLENS organic tracks
C4I Interoperability KPP	100% of all top level IERS	100% of / 100% of all top / all top level / level IERS / critical / IERS	TBD	100% of all top level IERS

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AS AMENDED

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10a. (U) Performance Characteristics (Cont'd):

	SAR Development <u>Estimate</u>	Approved APB <u>Obj/Threshold</u>	Demon- strated <u>Perf</u>	Current <u>Estimate</u>
Theater Air and Missile Defense Integrated Archi- tecture	Availa- ble be- havior models	Availa- / Data ble be- / com- havior / plete- models / ness, / data / availa- / bility, / and / common / process- / ing	TBD	Avail- able behavior models
Net Ready KPP	Develop Migra- tion Plan to show how we plan to meet NR-KPP	Develop / Develop Migra- / Migra- tion / tion Plan to / Plan to show how / show how we plan / we plan to meet / to meet NR-KPP / NR-KPP	TBD	Develop migratio n plan to show how we plan to meet NR-KPP

(U) Acronyms:

C4I - Command, Control, Communications, Computers and Intelligence
 Combat ID - Combat Identification
 deg - Degrees
 EOR - Engage on Remote
 FP - Forward Pass
 ft - feet
 IER - Information Exchange Requirements
 IFC - Integrated Fire Control
 IFF - Identification Friend or Foe
 km - Kilometer
 KPP - Key Performance Parameter
 NR - Net Ready
 PPLI - Precise Participant Location Identification (PPLI)
 RCS - Radar Cross Section
 SIAP - Single Integrated Air Picture
 sq M - Square Meter

(U) These KPPs are JLENS ORD Block 1 requirements. The material solution to ORD Block 1 requirements is Increment 1 Spiral 2.

*The requirement in the ORD for Classification Type Characterization for Block 1 is an objective value only at the current time. The Program Office is working with the contractor to attain a certain percentage of the objective value, and plans to incorporate that requirement into the SDD Government Performance Specification.

*** UNCLASSIFIED ***

10b. (U) Performance Characteristics (Cont'd):

b. Current Change Explanations -- None

- 4 -

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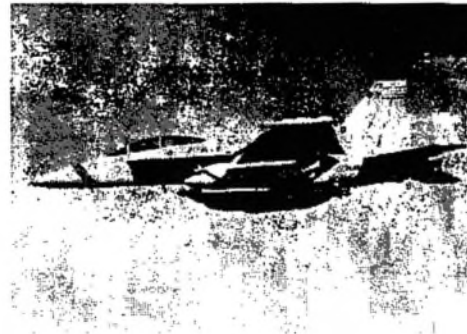
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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-378)
PROGRAM: EA-18G

AS OF DATE: December 31, 2005

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Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): EA-18G Growler
2. (U) DoD Component: Navy
3. (U) Responsible Office and Telephone Number:
Bldg 2272, Suite 445, NAVAIRSYSCOMHQ CAPT Donald Gaddis
47123 Buse Road, Unit IPT Assigned: May 30, 2003
Patuxent River, MD 20670-1547 DSN 757-7669; COMM 301-757-7669
donald.gaddis@navy.mil

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Downgrade instructions:
Declassify on: N/A

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06-C-0569

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10. (U) Performance Characteristics:

a. Performance --

	SAR Development Estimate	Approved APB Chi (Threshold)	Demon- strated Perf	Current Estimate
1 Radar Signal	(b)(1)		TBD	(b)(1)
1 Receive Frequency Range				
1 Communications Signals Receive Frequency Range			TBD	
1 Selective Reactive Jamming Response Engagement Radars			TBD	
1 Early Warning and/or Acquisition Radars			TBD	
1 Other Radars			TBD	
Receive Azimuth Coverage	Same	Same / 360 deg	TBD	Same
Operational Availability	>=0.98	>=0.98 / >=0.85	TBD	>=0.95
(U) Acronyms: GHz-Giga Hertz MHz-Mega Hertz				

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b. Current Change Explanations -- None

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N-5 ASDS

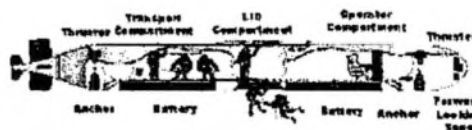
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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DE-A&T(Q&A)823-381)
PROGRAM: ASDS

AS OF DATE: December 31, 2005

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Contract Information	N/A
Program Funding Summary	N/A
Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): Advanced Seal Delivery System

2. (U) DoD Component: Navy

Joint Participants:
SOCCM

3. (U) Responsible Office and Telephone Number:

COMMANDER, NAVAL SEA SYSTEMS COMMAND CAPT J ELNITSKY
614 Sicard Street SE
Washington, DC 20376
WASHINGTON, DC 20376-2501

Assigned: June 1, 2005
DSN 326-2604; COMM 202 781-2604
john.elnitsky@navy.mil

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Declassify on: X3~~

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06-C-0559

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10. (U) Performance Characteristics (U)

a. Performance --

	SAR Development Estimate	Approved APS Chi/Threshold	Demon- strated Perf	Current Estimate
(U) Minimum Combat Range (NM)	(b)(1)			
(U) Minimum Cruise Speed (submerged) (kts)				
(U) Transport Depth (submarine host) (ft)				
(U) Transport Speed (submarine host) (kts)				
(U) Number of combat divers to be locked out/in concurrently				
(U) Operating Temperature (F)				
(U) Storage Temperature (F)				
(U) Survivability				
(U) Vibration				
(U) Crew				
(U) Passengers				
(U) Endurance (hrs)				
(U) External Payload				
(U) Transportability				
(U) Vehicle Signatures				
(U) Interoperability	HF, VHF, UHF, UHF SATCOM- DAMA	HF, VHF, / UHF, UHF / SATCOM- / DAMA / DAMA	HF, VHF, HF, VHF, HF, VHF, UHF, UHF UHF, UHF UHF, UHF SATCOM SATCOM (DAMA) (DAMA)	HF, VHF, HF, VHF, HF, VHF, UHF, UHF UHF, UHF UHF, UHF SATCOM SATCOM (DAMA) (DAMA)

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(U) Acronyms:

DAMA Dual Assigned Multiple Access
db Decibel
F Degrees Fahrenheit
ft Feet
HF High Frequency
hrs Hours
kts Knots

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10a. (U) Performance Characteristics (Cont'd):

NM	Nautical Miles
RCS	Radar Cross Section
SATCOM	Satellite Communications
UHF	Ultra High Frequency
VHF	Very High Frequency

(U) Transport Speed: The aluminum tail successfully demonstrated the threshold transport speed, but the design is not adequate for the life of the ship. A titanium tail capable for the life of the ship has been designed and was tested in the winter 2003.

b. Current Change Explanations -- None

*** UNCLASSIFIED ***

N-18 HLR

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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-390)
PROGRAM: HLR Program.

AS OF DATE: December 31, 2005

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Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): Heavy Lift Replacement (HLR) (Designation has been approved as ZCH-53K)
2. (U) DoD Component: Navy
3. (U) Responsible Office and Telephone Number:
Naval Air Systems Command (PMA-261) Col Paul Croisetiere
22595 Saufley Road, BLDG 3259 Assigned: October 1, 2003
Patuxent River, MD 20670-1547 DSN 757-5780; COMM (301)757-5780
paul.croisetiere@navy.mil

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Downgrade instructions: Not Subject to Automatic Downgrade
Declassify on: Originating Agency Determination Required (OADR)~~

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06-C-0566

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10. (U) Performance Characteristics:

a. Performance --

	SAR Development Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
Net Ready (NR)	Satisfy 100% of NR reqts in Joint Integra- ted Archi- tecture (JIA)	Satisfy / Satisfy 100% of / 100% of NR reqts/ NR reqts in Joint/ designa- Integra-/ ted as ted / enter- Archi- / prise- tecture / level or (JIA) / critical / in JIA	TBD	Satisfy 100% of NR reqts in JIA
Range and Payload (nm)	110 w/ 30,000 lbs external load no refuel	110 w/ / 110 w/ 30,000 / 27,000 lbs / lbs external/ external load / load no / no refuel / refuel	TBD	110 w/ 30,000 lbs external load no refuel
Mission Reliability (MR)	90%	90% / 89%	TBD	90%
Logistics Footprint	10% reduc- tion from current CH-53E	10% / <= reduc- / current tion / CH-53E from / current / CH-53E /	TBD	10% reduc- tion from current CH-53E
Sortie Generation Rate (SGR)/Average Sortie Duration (ASD)	2.6 sorties / 2.25	2.6 / 2.6 sorties / sorties / 2.25 / 2.25	TBD	2.6 sorties / 2.25
Survivability	(b)(1)		BD	(b)(1)
Force Protection			BD	AS AMENDED

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10a. (U) Performance Characteristics (Cont'd):

<u>SAR</u> <u>Development</u> <u>Estimate</u>	<u>Approved</u> <u>APB</u> <u>Obj Threshold</u>	<u>Demon-</u> <u>strated</u> <u>Perf</u>	<u>Current</u> <u>Estimate</u>
	(b)(1)		

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(U) Acronyms:

API - Armor Piercing Incendiary
hrs - Hours
lbs - Pounds
nm - Nautical Mile
mm - Millimeter
TBD - To be determined

(U) Net Ready is all activity interfaces, services, policy-enforcement controls, and data-sharing of the Net-Centric Operations and Warfare Reference Model (NCOW RM) and Global Information Grid (GIG)-Key Interface Profiles (KIPs) will be satisfied to the requirements of the specific JIA products (including data correctness, data availability and data processing), and information assurance accreditation, specified in the threshold (T) and objective (O) values.

Mission Reliability (MR) is the probability that the Heavy Lift Replacement (HLR) will successfully complete the Operational Requirements Document (ORD) defined mission with an average sortie duration of 2.25 flight hours based on Mean Flight Hours Between Operational Mission Failure (MFHBOMF).

CH-53E Total Logistics Footprint as contained in the HLR ORD.

Sortie Generation Rate (SGR) is the number of sorties required per aircraft per day to accomplish a specific mission given the total sorties required and the number of aircraft on hand.

Average Sortie Duration (ASD) is the average number of flight hours expended for a given mission from take off to landing.

Survivability as contained in the Survivability and Force Protection Appendix located in the HLR ORD.

Force Protection as contained in the Survivability and Force Protection Appendix located in the HLR ORD.

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10b. (U) Performance Characteristics (Cont'd):

b. Current Change Explanations -- None

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N-28 SM-6

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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-391)
PROGRAM: SM-6

AS OF DATE: December 31, 2005

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Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A

1. (U) Designation and Nomenclature (Popular Name): STANDARD MISSILE-6 (SM-6)
Extended Range Active Missile
2. (U) DoD Component: Navy
3. (U) Responsible Office and Telephone Number:
PSC INTEGRATED WARFARE SYSTEMS 3.0 CAPT J.A. MURDOCH
2450 CRYSTAL DRIVE Assigned: November 3, 2005
SUITE 700 DSN N/A; COMM (703) 872-3700
ARLINGTON, VA 22202-3862 MURDOCHJA@NAVSEA.NAVY.MIL

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Declassify on: OPNAVINST 5510.38~~

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10. (U) Performance Characteristics:

a. Performance --

	SAR Development Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
(//) Maximum Downrange (nmi)	(b)(1)		TBD	(b)(1)
(//) Minimum Threat RCS (sqm)			TBD	
(//) Single Shot Kill Probability (%)			TBD	
(//) Launch Availability (%)			TBD	
(//) Interoperability			TBD	

(U) Acronyms:

nmi - nautical miles
RCS - Radar Cross Section
sqm - square meters
IER - Information Exchange Requirement

b. Current Change Explanations -- None

*** ~~SECRET~~ ***

N-31 SSN 774 (VA CLASS)

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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-516)
PROGRAM: VIRGINIA CLASS SUB

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Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): VIRGINIA CLASS SUBMARINE (SSN 774)
2. (U) DoD Component: Navy
3. (U) Responsible Office and Telephone Number:
VIRGINIA SUBMARINE PROGRAM OFFICE CAPT DAVID JOHNSON
PEO SUBMARINES Assigned: September 9, 2005
614 SICARD STREET, SE DSN 326-1294; COMM (202) 781-1294
WASHINGTON NAVY YD, DC 20376-7022 david.c.johnson5@navy.mil

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Downgrade instructions:
Declassify on: OADR~~

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9. (U) Schedule:

a. Milestones --

	SAR Development Estimate	Approved APB Obj/Threshold	Current Estimate
Milestone 0	AUG 1992	AUG 1992/	AUG 1992
Milestone I	AUG 1994	AUG 1994/	AUG 1994
Milestone II	JUN 1995	JUN 1995/	JUN 1995
New Attack Submarine Integrated Product and Process Development Contract Award	OCT 1995	OCT 1995/	JAN 1996
Program Review (LRIP)	SEP 1997	SEP 1997/	JAN 1997
Organizational Support (by Fast Cruise)	APR 2004	APR 2004/	APR 2004
Lead Ship Delivery	JUN 2004	JUN 2004/	OCT 2004 (Ch-1)
LFT&E Shock Tests	OCT 2004	JUN 2006/DEC 2006	MAY 2006 (Ch-2)
Initial Operational Test & Evaluation Start	JUL 2004	FEB 2008/AUG 2008	FEB 2008 (Ch-3)
Complete	OCT 2004	SEP 2008/MAR 2009	SEP 2008
IOC (Lead Ship)	OCT 2005	NOV 2006/MAY 2007	DEC 2006 (Ch-4)
Intermediate Support (by IOC)	OCT 2005	JAN 2006/JUL 2006	JUN 2006 (Ch-5)
Milestone III	OCT 2007	APR 2009/OCT 2009	APR 2009 (Ch-6)
Depot Shipyard Support	AUG 2015	AUG 2015/FEB 2016	AUG 2015
Related Programs			
NSSN COMMAND AND CONTROL SYSTEM			
FY95 Open Architecture Demo	OCT 1995	OCT 1995/	SEP 1995
Complete			
C&CS Module Start Fabrication	JUN 1999	JUN 1999/	JUN 1999
GFE C&CS Delivered to Shipyard	DEC 2000	DEC 2000/	DEC 2000
LBTS Integration and Test Complete	APR 2002	APR 2002/	APR 2002
C&CS Module delivered to ship	MAY 2002	MAY 2002/	MAY 2002
NSSN Reactor Plant			
Reactor Vessel in Yard			
Start Pre-fill Testing			
Power Unit Landed			
Start Alpha Trials			
MK-48 ADCAP Torpedo Modification Program			
LRIP			
MS III			
IOC Block IV			

(b)(1)

ENDED
h-7)

(U) Acronyms:

C&CS = Command and Control System
GFE = Government Furnished Equipment
LFT&E = Live Fire Test and Evaluation
LBTS = Land Based Test Site

(U) The VIRGINIA Class Submarine Program is tracking and reports the six year earlier delivery of the MK-48 ADCAP weapon system, for associated weapons system coordination purposes only.

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9b. (U) Schedule (Cont'd):

b. Current Change Explanations --

(U) CH-1 The Program Manager's Current Estimate for Lead Ship Delivery is revised from June 2004 to October 2004, which is within the threshold date of December 2004. The USS VIRGINIA was delivered on October 12, 2004.

CH-2 The Program Manager's Current Estimate for LFT&E Shock Tests is revised from May 2005 to May 2006, which is within the threshold date of December 2006. This is due to the approximately 12 month delay in the delivery of TEXAS (SSN 775).

CH-3 The Program Manager's Current Estimate for Initial Operational Test and Evaluation Start is revised from July 2004 to February 2008. The program's milestone schedule objective (July 2004) was established using an earlier, approved definition of IOT&E. Although that objective was met with the start of operational testing during OT-IIA (Aug 98), the program is adopting the current definition of IOT&E which states that IOT&E begins with OPEVAL. This change was reflected in the program's Acquisition Program Baseline revision of May 31, 2005.

CH-4 The Program Manager's Current Estimate for Initial Operational Capability (IOC) is revised from November 2006 to December 2006 consistent with the scheduled completion of Post Shakedown Availability in December 2006.

CH-5 The Program Manager's Current Estimate for Intermediate Support (by IOC) is revised from January 2006 to June 2006, which is within the threshold date of July 2006.

CH-6 The Program Manager's Current Estimate for Milestone III is revised from September 2008 to April 2009. This schedule change will provide the necessary interval following the completion of OPEVAL in July 2008 during which to prepare the COMOPTEVFOR report and the Beyond-Low Rate Initial Production (LRIP) Report prior to MS III. This change was reflected in the program's Acquisition Program Baseline revision of May 31, 2005.

CH-7 The Program Manager's Current Estimate for Start Alpha Trials is revised from April 2004 to July 2004, which is within the threshold date of October 2004. The USS VIRGINIA commenced Alpha Trials in June 2004.

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10. (U) Performance Characteristics:

a. Performance --

	<u>SAR Development Estimate</u>	<u>Approved APB Obj/Threshold</u>	<u>Demon- strated Perf</u>	<u>Current Estimate</u>
Radiated Noise	(b)(1)		TBD	(b)(1)
Broadband Noise				
5 and 10 knots				
(prior to				
installation of				
hull coating)				
Greater than or	(b)(1)		TBD	(b)(1)
equal to 15				
knots				
Narrowband Noise				
Transient Noise				
Exceptions:	(b)(1)		TBD	(b)(1)
Weapons Launch				

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10a. (U) Performance Characteristics (Cont'd):

	<u>SAR Development Estimate</u>	<u>Approved APB Obj/Threshold</u>	<u>Demon- strated Perf</u>	<u>Current Estimate</u>
Active Target				
Strength (less than or equal to)	(b)(1)			(b)(1)
(S) High Frequency (15-30 kHz)			TBD	
(S) Stern Aspect (dB)				
(S) Mid Frequency (2-15 kHz) Quarter Aspect (dB)			TBD	
(S) Low Frequency, Bow/ Stern (400Hz) (dB)			TBD	
Electromagnetic Quieting (less than or equal to)				
(S) DC Electric (amp-meter)			TBD	
(S) DC Magnetic (gamma-ft3) (million)			TBD	
(S) AC Electric (amp- meter)			TBD	
(S) Flank Speed (knots) (greater than or equal to)			TBD	
Torpedo Launch Rate				
(S) Torpedoes in one minute			TBD	
(S) Payload (standard size weapons) (including weapons stored in torpedo tubes and vertical launch tubes)			TBD	
(S) Vertical Launch Missiles Cells			TBD	
(S) Test Depth (ft)			TBD	
(S) Endurance (days) (greater than or equal to)			TBD	
Operational Availability (%)				
(S) Covert Strike Warfare (STW)			TBD	

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10a. (U) Performance Characteristics (Cont'd):

	SAR Development	Approved APB	Demon- strated Perf.	Current
/ Covert Surveillance Intelligence Collection/Surveillance Covert Indication and Warning (ISW), and Electronic Warfare (EW)	(b)(1)		TBD	(b)(1)
/ Special Warfare (NSW)			TBD	
/ Mine Warfare (MIW)			TBD	
/ Anti-Submarine Warfare (ASW)			TBD	
/ Anti-Surface Ship Warfare (ASUW)			TBD	
/ Battle Group Support			TBD	
/ 90-Day Basic Functions			TBD	
Interoperability	N/A	100% of / 100% of top / top level / level IERS. / IERS / designa- / ted / critical	TBD	

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(U) Acronyms:

The reference for Figure A.1 is the program's Operational Requirements Document (ORD).

(U) The Operational Requirements Document, Revision A of December 13, 2004 changes "Figure A.1" to "Figure 1" and "Figure A.2" to "Figure 2", and adds the Interoperability Key Performance Parameter (KPP). No other approved objectives or thresholds have changed as a result.

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10b. (U) Performance Characteristics (Cont'd):

b. Current Change Explanations -- None

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A-17 PATRIOT/MEADS CAP

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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-531)
PROGRAM: PATRIOT/MEADS CAP

AS OF DATE: December 31, 2005

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Unit Cost and Other History	N/A
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Program Funding Summary	N/A
Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): PATRIOT/Medium Extended Air Defense System (MEADS) Combined Aggregate Program (CAP)
2. (U) DoD Component: Army
3. (U) Responsible Office and Telephone Number:
Project Manager COL John K. Vaughn
Lower Tier Project Office Assigned: October 31, 2003
PO Box 1500 DSN 645-3240; COMM 256-955-3240
Huntsville, AL 35807-3801 john.vaughn@msl.army.mil

~~Classified by: MEADS Security Classification Guide (SCG), September 21, 2001; PATRIOT SCG, April 23, 2003~~
~~Downgrade instructions: Regrade to UNCLASS when separated from CLASS sections~~
~~Declassify on: September 21, 2026 / April 23, 2028~~

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10. (U) Performance Characteristics:

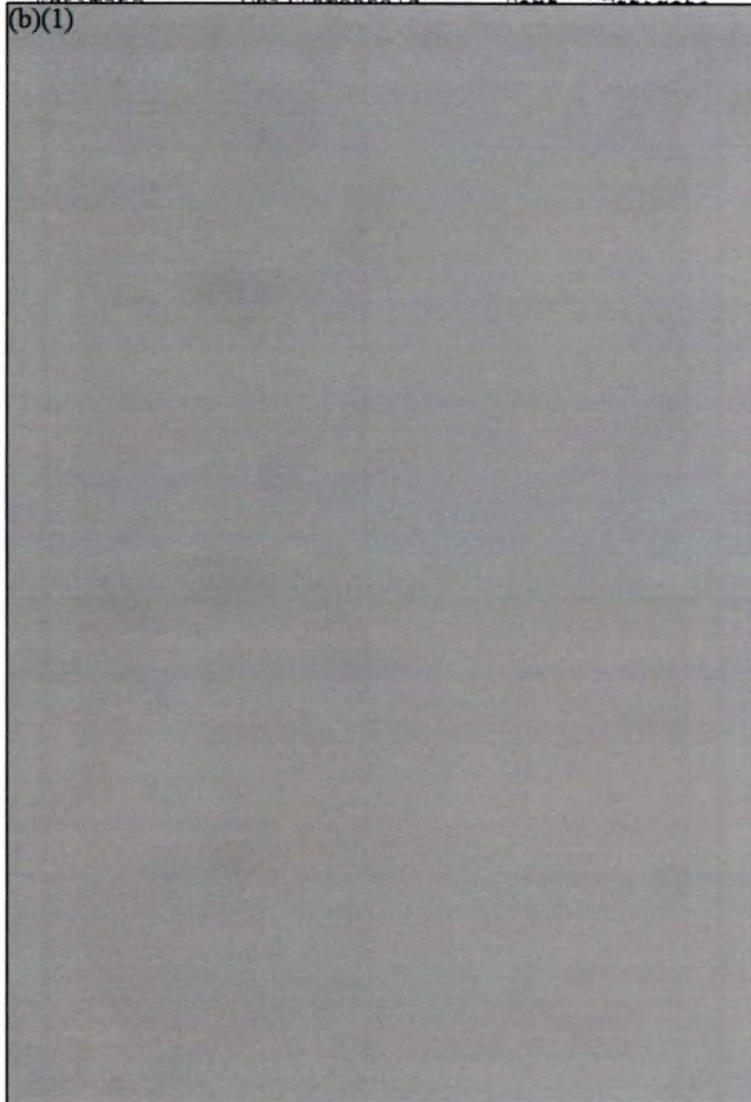
FIRE UNIT

a. Performance --

~~1~~ Lethality

SAR Development Estimate	Approved APB Obs (Threshold)	Demon- strated Data	Current Estimate
--------------------------------	------------------------------------	---------------------------	---------------------

(b)(1)



~~1~~ Battery Defended
Radius
Critical Asset
Protection

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10a. (U) Performance Characteristics (Cont'd):
FIRE UNIT

SAR Development Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
--------------------------------	----------------------------------	---------------------------	---------------------

(b)(1)



~~(S)~~ Coverage

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10a. (U) Performance Characteristics (Cont'd):
FIRE UNIT

SAR Development Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
(b)(1)			

(b)(1)

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10a. (U) Performance Characteristics (Cont'd):
FIRE UNIT

SAR Development Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
--------------------------------	----------------------------------	---------------------------	---------------------

(b)(1)



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(b)(1)



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10a. (U) Performance Characteristics (Cont'd):
FIRE UNIT

SAR Development Estimate	Approved APB Obi/Threshold	Demon- strated Perf	Current Estimate
--------------------------------	----------------------------------	---------------------------	---------------------

(b)(1)

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~~Security~~

(b)(1)

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10a. (U) Performance Characteristics (Cont'd):
FIRE UNIT

SAR Development Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
--------------------------------	----------------------------------	---------------------------	---------------------

(b)(1)

(b)(1)

(b)(1)

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10a. (U) Performance Characteristics (Cont'd):
FIRE UNIT

SAR Development Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
--------------------------------	----------------------------------	---------------------------	---------------------

(b)(1)

(b)(1)

Defense against TBMs
and ABTs

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10a. (U) Performance Characteristics (Cont'd):
FIRE UNIT

SAR Development Estimate	Approved APB Obt./Threshold	Demon- strated Perf	Current Estimate
--------------------------------	-----------------------------------	---------------------------	---------------------

(b)(1)

~~1~~ Simultaneous
Engagements

~~1~~ ABT Interceptions
(Velocity)

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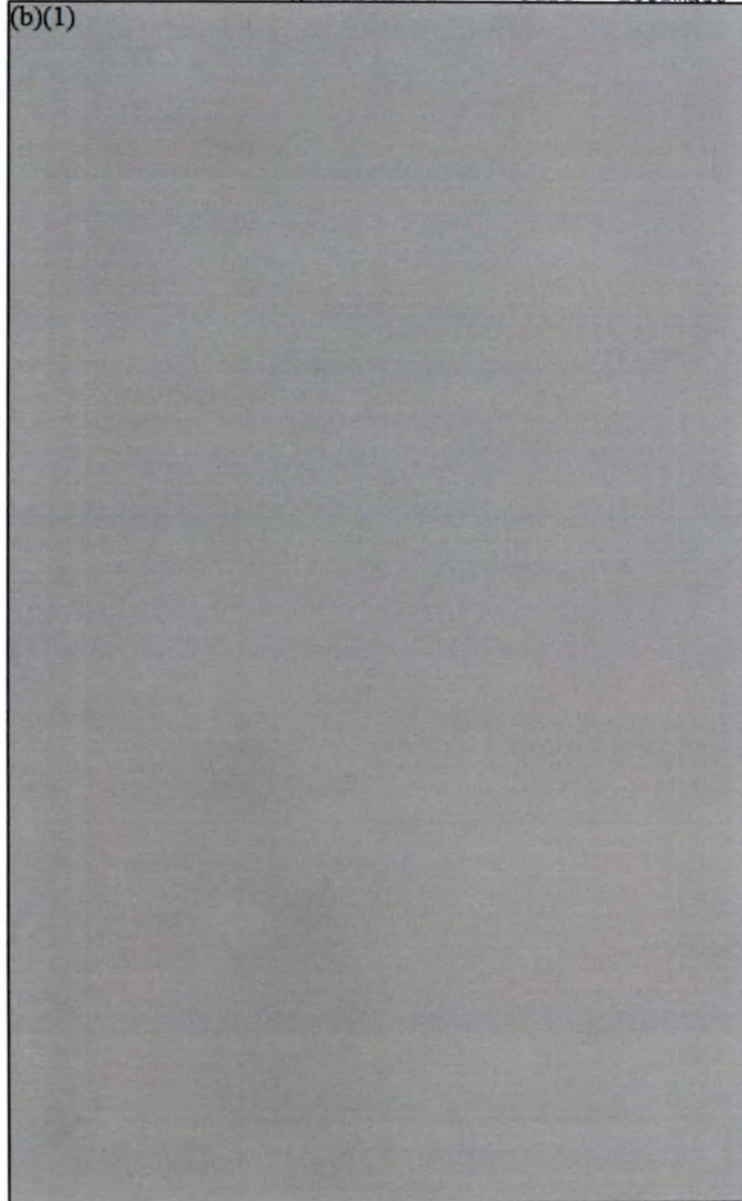
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10a. (U) Performance Characteristics (Cont'd):
FIRE UNIT

SAR Development Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
--------------------------------	----------------------------------	---------------------------	---------------------

(b)(1)



External Fire
Control Data and
Identification

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10a. (U) Performance Characteristics (Cont'd):
FIRE UNIT

SAR Development Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
--------------------------------	----------------------------------	---------------------------	---------------------

(b)(1)

~~(S)~~ Defense Against TBMs
(Velocity)

~~(S)~~ Defense Against TBMs
(Maneuver)

~~(S)~~ Classification
TBM or ABT Targets

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10a. (U) Performance Characteristics (Cont'd):
FIRE UNIT

SAR Development Estimate	Approved APB Opri/Threshold	Demon- strated Perf	Current Estimate
--------------------------------	-----------------------------------	---------------------------	---------------------

(b)(1)

~~(S)~~ TBM Targets

~~(S)~~ ABT Targets

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Identification - ABT
Targets

Fire	Fire	/ Fire	TBD	Fire
unit	unit	/ unit		unit
will	will	/ will		will
auto-	auto-	/ auto-		auto-
mational-	mational-	/ mational-		mational-
ly	ly	/ ly		ly
declare	declare	/ declare		declare
ABT	ABT	/ ABT		ABT

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10a. (U) Performance Characteristics (Cont'd):
FIRE UNIT

SAR Development Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
targets	targets / targets		targets
as	as / as		as
friend,	friend, / friend,		friend,
foe,	foe, / foe,		foe,
or	or / or		or
unknown	unknown / unknown		unknown
using	using / using		using
all	all / all		all
avail-	avail- / avail-		avail-
able	able / able		able
sources	sources / sources		sources
of	of / of		of
informa-	informa- / informa-		informa-
tion	tion / tion		tion

~~(b)~~ Identification
Accuracy

(b)(1)

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~~(b)~~ Target Database

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10a. (U) Performance Characteristics (Cont'd):
FIRE UNIT

SAR Development Estimate	Approved APB Cnd/Threshold	Demon- strated Perf	Current Estimate
--------------------------------	----------------------------------	---------------------------	---------------------

(b)(1)



~~Discrimination~~

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10a. (U) Performance Characteristics (Cont'd):
FIRE UNIT

	SAR Development Estimate targets	Approved APB Ob/Threshold targets / false / targets	Demon- strated Perf	Current Estimate targets
Transportability/ Mobility				
Drive-on, Drive-off	Drive-on Drive- off loading and un- loading: C-5, C-17	Drive-on/ Drive- / Drive- off / off loading / loading and / and un- / un- loading: / loading: C-5, / C-5, C-17 / C-17	TBD	Drive-on Drive- off loading and un- loading: C-5, C-17
Roll-on, Roll-off	Roll-on Roll-off loading and un- loading in a trans- port config- uration on A400M, C-130	Roll-on / Roll-on Roll-off / Roll-off loading / loading and / and un- / un- loading / loading in a / in a trans- / trans- port / port config- / config- uration / uration on / on A400M, / A400M, C-130 / C-130	TBD	Roll-on Roll-off loading and un- loading in a trans- port config- uration on A400M, C-130
Corps Maneuver and Support Elements	Provide contin- uous air defense coverage of corps maneuver and support elements as they advance up to 400 km per day at a rate of 50 kmph off-road	Provide / Provide contin- / contin- uous / uous air / air defense / defense coverage / coverage of corps / of corps maneuver / maneuver and / and support / support elements / elements as they / as they advance / advance up to / up to 400 km / 250km per day / per day at a / at a rate of / rate of 50 kmph / 25 kmph off-road /	TBD	Provide contin- uous air defense coverage of corps maneuver and support elements as they advance up to 400 km per day at a rate of 50 kmph off-road

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10a. (U) Performance Characteristics (Cont'd):

FIRE UNIT

	SAR Development	Approved APB Obj./Threshold	Demon- strated Perf	Current Estimate
	/90 kmph	/90 kmph/		/90 kmph
	on-road	on-road /		on-road
External	By CH-47	By CH-47/ By CH-47	TBD	By CH-47
Transportability	and	and / and		and
	CH-53	CH-53 / CH-53		CH-53
	class	class / class		class
	cargo	cargo / cargo		cargo
	helicopters up	helicopters up / helicopters up		helicopters up
	to an	to an / to an		to an
	ambient	ambient / ambient		ambient
	temp of	temp of / temp of		temp of
	70 deg	70 deg / 70 deg		70 deg
	F,	F, / F,		F,
	2000 ft	2000 ft / 2000 ft		2000 ft
	alt MSL,	alt MSL, / alt MSL,		alt MSL,
	over a	over a / over a		over a
	30 nm	30 nm / 30 nm		30 nm
	dis-	dis- / dis-		dis-
	tance;	tance; / tance;		tance;
	assembly	assembly/ assembly		assembly
	and dis-	and dis-/ and dis-		and dis-
	assembly	assembly/ assembly		assembly
	from a	from a / from a		from a
	march	march / march		march
	order	order / order to		order
	to a	to a / a trans-		to a
	trans-	trans- / port		trans-
	port	port / config-		port
	config-	config- / uration		config-
	uration	uration / with		uration
	with	with / organic		with
	organic	organic / equip-		organic
	equip-	equip- / ment in		equip-
	ment in	ment in / 30 min		ment in
	15 min	15 min /		15 min
Interoperability	Will	Will / Will	TBD	Will
	inter-	inter- / inter-		inter-
	operate	operate / operate		operate
	with	with / with		with
	existing	existing/ existing		existing
	and	and / and		and
	planned	planned / planned		planned
	National	National/ National		National
	(top-	(top- / (criti-		(top-
	level)/	level)/ / cal top-		level)/
	Joint/	Joint/ / level)/		Joint/

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10a. (U) Performance Characteristics (Cont'd):
FIRE UNIT

	SAR Development	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate Combined
	Combined	Combined/ Joint/		Combined
	Air	Air / Combined		Air
	Defense	Defense / Air		Defense
	BMC4I	BMC4I / Defense		BMC4I
	systems	systems / BMC4I		systems
	of the	of the / systems		of the
	respect-	respect-/ of the		respect-
	ive	ive / respect-		ive
	national	national/ ive		national
	forces	forces / national		forces
	in	in / forces		in
	accord-	accord- / in		accord-
	ance	ance / accord-		ance
	with	with / ance		with
	each	each / with		each
	nation's	nation's/ each		nation's
	IERs	IERs / nation's		IERs
		/ IERs		
Flexibility				
MEADS in all	Capable	Capable / Capable	TBD	Capable
configurations	of	of / of		of
	netted	netted / netted		netted
	distrib-	distrib- / distrib-		distrib-
	uted	uted / uted		uted
	and	and / and		and
	site-	site- / site-		site-
	centered	centered/ centered		centered
	opera-	opera- / opera-		opera-
	tions	tions / tions		tions
MEADS Battalion	Will	Will / Will	TBD	Will
	provide	provide / provide		provide
	air and	air and / air and		air and
	missile	missile / missile		missile
	defense	defense / defense		defense
	of	of / of		of
	selected	selected/ selected		selected
	critical	critical/ critical		critical
	assets	assets / assets		assets
	and	and / and		and
	organi-	organi- / organi-		organi-
	zations	zations / zations		zations
	located	located / located		located
	in an	in an / in an		in an
	opera-	opera- / opera-		opera-
	tionally	tionally/ tionally		tionally
	equiva-	equiva- / equiva-		equiva-
	lent	lent / lent		lent

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10a. (U) Performance Characteristics (Cont'd):
FIRE UNIT

	SAR Development <u>Estimate</u>	Approved APB <u>Obj/Threshold</u>	Demon- strated <u>Perf</u>	Current <u>Estimate</u>
	area of	area of / area of		area of
	100km by	100km by/ 100km by		100km by
	100km	100km / 100km		100km
Plug and Fight	Intra/	Intra/ / Intra/	TBD	Intra/
	inter-	inter- / inter-		inter-
	system	system / system		system
	plug-	plug- / plug-		plug-
	and-	and- / and-		and-
	fight	fight / fight		fight
	capable	capable / capable		capable
	by	by / by		by
	imple-	imple- / imple-		imple-
	menting	menting / menting		menting
	a MEADS	a MEADS / a MEADS		a MEADS
	network	network / network		network
	standard	standard/ standard		standard
	to be	to be / to be		to be
	able to	able to / able to		able to
	dynamic-	dynamic-/ dynamic-		dynamic-
	ally	ally / ally		ally
	inte-	inte- / inte-		inte-
	grate	grate / grate		grate
	MEADS	MEADS / MEADS		MEADS
	and non-	and non-/ and non-		and non-
	MEADS	MEADS / MEADS		MEADS
	major	major / major		major
	end	end / end		end
	items	items / items		items
	(that	(that / (that		(that
	comply	comply / comply		comply
	with	with / with		with
	MEADS	MEADS / MEADS		MEADS
	network	network / network		network
	stand-	stand- / stand-		stand-
	ard)	ard) / ard)		ard)

(U) Acronyms:

ABT Air Breathing Threat
AGL Above Ground Level
alt Altitude
BMC4I Battle Management Command, Control, Communications, Computers and Intelligence
deg Degree
HACM High Altitude Cruise Missile
km Kilometer
kmph Kilometers per hour
min Minutes

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10a. (U) Performance Characteristics (Cont'd):
FIRE UNIT

m/sec meters/second
MSL Mean Sea Level
nm Nautical Mile
PENAIID Penetration Aid
SR Surveillance Radar
TBM Tactical Ballistic Missile
temp Temperature

(U) Performance Characteristics Footnotes:

(b)(1)

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(U) A MEADS battalion consists of a headquarters and several fire units.

(U) Plug-and-fight is the capability to rapidly and dynamically recognize, incorporate, control, remove, reallocate, and/or reposition system elements (such as sensors, tactical operations centers, and launchers). Plug-and-fight capabilities are required at the intra-system and inter-system levels and therefore require an open, netted-distributed architecture.

(U) The MEADS Key Performance Parameters (KPPs) were validated by the Joint Requirements Oversight Council on June 14, 2004. All KPPs are associated with MEADS objective system requirements for the Fire Unit end item.

b. Current Change Explanations -- None

MISSILE

No data entered.

(U) All performance parameters for the PATRIOT/MEADS Combined Aggregate Program are associated with the Fire Unit end item.

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10b. (U) Performance Characteristics (Cont'd):
MISSILE

b. Current Change Explanations -- None

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AF-12 JASSM

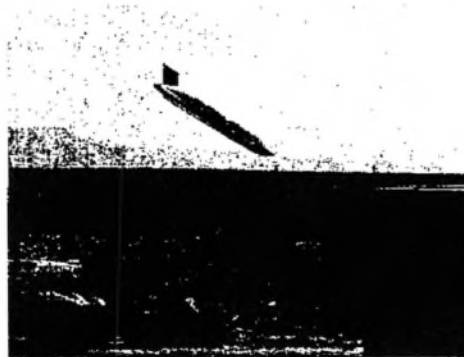
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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-555)
PROGRAM: JASSM

AS OF DATE: December 31, 2005

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Cost Variance Analysis	N/A
Unit Cost and Other History	N/A
Contract Information	N/A
Program Funding Summary	N/A
Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): Joint Air-to-Surface Standoff Missile (JASSM)

2. (U) DoD Component: USAF

Joint Participants:
USN

3. (U) Responsible Office and Telephone Number:

AGMSW/LRMSG

JASSM System Program Office
205 West D Ave, Suite 632
Eglin AFB, FL 32542-6807

Col James Geurts

Assigned: August 11, 2004

DSN 875-5340; COMX 850-883-5340

james.geurts@eglin.af.mil

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10. (U) Performance Characteristics:

a. Performance --

SAR

Approved

Demon-

(b)(1)



NOED

b. Current Change Explanations -- None

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N-4 AIM-9X

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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-581)
PROGRAM: AIM-9X

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Program Funding Summary	N/A
Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): AIM-9X/Air-to-Air Missile

2. (U) DoD Component: Navy

Joint Participants:
Air Force

3. (U) Responsible Office and Telephone Number:

Program Executive Officer (PMA259)	CAPT Scott Stewart
47123 Buse Road Unit IPT, Suite 451	Assigned: October 18, 2002
Patuxent River, MD 20670-1547	DSN 757-7311; COMM (301) 757-7311
	scott.d.stewart@navy.mil

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10. (U) Performance Characteristics:

a. Performance --

	SAR Production Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
Day/Night Capability	(b)(1)			
Infrared counter counter measures (IRCCM)				
Aircraft Interface				
Missile Weight (lbs)	<.or.= 192	<.or.= / <.or.= 192 / 210	<.or.= 186	<.or.= 192
Missile Size				
Length (in.)	<.or.= 115	<.or.= / <.or.= 115 / 123	119.2	119.2
Box Size (in.)	<.or.= 12.5 x 12.5	<.or.= / <.or.= 12.5 x / 12.5 x 12.5 / 12.5	<12.15 x 12.15	<.or.= 12.5 x 12.5
Diameter (in.)	5	5 / <.or.= 7	5	5
Digital Interface	Employ from current fighter aircraft without digital inter- face	Employ / Employ from / from current / future/ fighter / current aircraft/ fighter without / aircraft digital / with inter- / digital face / inter- / face	Employed from F/A-18 C/D and F-15C with digital inter- face	Employ from future/ current fighter aircraft with aircraft digital inter- face
Off Boresight Capability				
Cueing/Verification	Inter- face to all current and planned aircraft systems which provide accurate Line of	Inter- / Inter- face to / face all / with current / current/ and / planned planned / aircraft aircraft/ radar systems / systems which / and provide / planned accurate/ Helmet Line of / Mounted	JHMCS and Radar on both F-15C and F/A-18C/ D	Inter- face to all current and planned aircraft systems which provide accurate Line of

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10a. (U) Performance Characteristics (Cont'd):

	<u>SAR</u> <u>Production</u> <u>Estimate</u> <u>Site to</u> <u>target</u>	<u>Approved</u> <u>APB</u> <u>Obj/Threshold</u> <u>Site to / Cueing</u> <u>target / System</u>	<u>Demon-</u> <u>strated</u> <u>Perf</u>	<u>Current</u> <u>Estimate</u> <u>Site to</u> <u>target</u>
(b)(1) Acquisition (deg.)				
(b)(1) Track (deg.)				
(b)(1) Launch (deg.)				
(b)(1) Probability of Kill				
(b)(1) Captive Carry				
Reliability (hr.)				
(b)(1) Incoming Missile				
Reliability				
Detect Non-				
Operational				
Missile (BIT) All				
Components				
Detect Non-				
Operational Missile				
(BIT-able				
Components)				
False Alarm Rate				
BIT Time (sec)				
(U) Acronyms:				
BIT Built-In-Test				

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10b. (U) Performance Characteristics (Cont'd):

b. Current Change Explanations -- None

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Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



Timing Control Processor



Planar Array Antenna Assembly (PAAA)

1. (U) Designation and Nomenclature (Popular Name): Cooperative Engagement Capability (CEC); AN/USG-2/3 and AN/USG-2A/3A
2. (U) DoD Component: Navy
 Joint Participants:
 U.S. Air Force (AWACS); U.S. Army (PATRIOT); Joint Land Attack Cruise Missile Defense Elevated Netted Sensor Sys (JCEENS)
3. (U) Responsible Office and Telephone Number:

Program Executive Office	Capt. Peter A. Nardi
Integrated Warfare Systems	Assigned: November 22, 2005
1333 Isaac Hull Avenue, S.E.	DSN 336-2029; COMM (202) 781-2029
Washington, DC 20376-4401	peter.nardi@NAVY.MIL

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06-C-0571

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10. (U) Performance Characteristics:

a. Performance --

	SAR Production Estimate	Approved APB Ops/Threshold	Demon- strated Data	Current Estimate	
Track Base Size	(b)(1)				
Track Measurement					
Update Rate (b)(1)					
Local					
Remote					
Operational					
Availability					
Data Rate (without any Compression Technology Implemented) (Mbps)					
Anti-jam Resistance (kW/MHz) (b)(1)					
Interoperability					
Information	100% of	100% of /	100% of	TBD	100% of
Exchange Require- ments (IER)	top- level IERs	top- level / IERs.	top- level / IERs		top- level IERs.
		/ designa- ted / critical			
Track File Consistency	Integra- tion will improve track file consis- tency in each host system	CEC / integra- / tion / will / improve / track / file / consis- / tency as / measured / in each / host / system	CEC / integra- / tion / must not / degrade / track / file / consis- / tency / (0% / degrada- tion) as / measured / in each / host / system	TBD	CEC integra- tion will improve track file consis- tency as measured in each host system

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(U) Acronyms:

CEC Cooperative Engagement Capability
IER Information Exchange Requirements
KW Kilowatts
Mbps Mega bytes per second
MHz MegaHertz
nm Nautical Mile

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10a. (U) Performance Characteristics (Cont'd):

sec	Seconds
TBD	To be Determined

(C) Interoperability Information Exchange Requirements (IER) added to Production Acquisition Program Baseline (APB):

Note 1 - All top-level IERs satisfied to standards specified by the Threshold and Objective values.

Note 2 - Unit-to-Unit comparison of tracks held throughout the force. This measure will be computed by comparing averaged data on specific control tracks across the force on a pairwise basis with CEC on and off, respectively for 100% of top-level IERs.

b. Current Change Explanations -- None

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N-19 JSOW

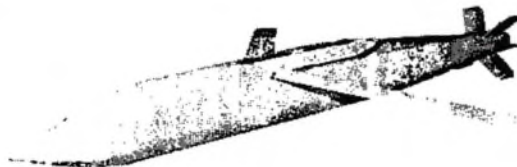
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Executive Summary	N/A
Threshold Breaches	N/A
Schedule	N/A
Performance Characteristics	2
Total Program Cost and Quantity	N/A
Unit Cost Summary	N/A
Cost Variance Analysis	N/A
Unit Cost and Other History	N/A
Contract Information	N/A
Program Funding Summary	N/A
Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): Advanced Interdiction
Weapon System (AIWS) - BASELINE WEAPON
2. (U) DoD Component:
Joint Participants:
Air Force
3. (U) Responsible Office and Telephone Number:
Precision Strike Weapons, PYA 201 CAPT D.A. Dunaway, USN
Bldg 2272 Assigned: July 11, 2003
47123 Buse Road Unit #IPT DSN 757-7477; COMM (301)757-7477
Patuxent River, MD 20670-1547 David.Dunaway@Navy.mil

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Security Review
Department of Defense

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No Security Objection
to Open Publication

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Downgrade instructions:
Declassify on:~~

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06-C-0563

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10. (U) Performance Characteristics(1/)

Baseline/BLU-108

a. Performance --

	SAR Production Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
Launch Envelope	(b)(1)			
Airspeed (IMN/KCAS)	(b)(1)			
Off Axis Launch Angle	+/-30	+/-30 / +/-30	+/-180	+/-180
Survivability	IAW Sys Spec {SD-901- 1)	IAW Sys / IAW Sys Spec / Spec {SD-901- / {SD-901- 1) / 1)	IAW Sys Spec {SD-901- 1)	IAW Sys Spec {SD-901- 1)
Accuracy (CEP) Weapon (Air Vehicle) (ft)	70	70 / 91	35	35
Reliability	(b)(1)			
System Mission	(b)(1)			
Range (nm. from launch at specified conditions)	(b)(1)			
Low Altitude (NM)	>or=15 {200 ft MSL, .8	>or=15 / >or=12 {200 ft / {500 ft MSL, .8 / MSL, .8	>or=12 {500 ft MSL, .8	>or=12 {500 ft MSL, .8
High (NM @30K ft MSL, .8 IMN)	(b)(1)			
BLU-108 System	(b)(1)			
Weapon Effective- ness (Kill per Weapon) Non- Countermeasures Environment	(b)(1)			
Reliability	(b)(1)			
System Mission	(b)(1)			
(U) Acronyms:	(b)(1)			
AGL = Above Ground Level	(b)(1)			
CEP = Circular Error Probable	(b)(1)			
IAW = In Accordance With	(b)(1)			
IMN = Indicated Mach No.	(b)(1)			
KCAS = Knots Calibrated Air Speed	(b)(1)			
LBA = Limits of Basic Airframe	(b)(1)			
MSL = Mean Sea Level	(b)(1)			
NM = Nautical Mile	(b)(1)			

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10b. ~~(U)~~ Performance Characteristics (Cont'd) ~~(U)~~
 Baseline/BLU-108

b. Current Change Explanations -- None

Unitary

a. Performance --

	SAR Production Estimate	Approved APB Obj/Threshold	Demon- strated Perf	Current Estimate
Launch Envelope	(b)(1)			
Airspeed (IMN/KCAS)				
Off Axis Launch Angle (deg)	+/-30	+/-30 / +/-30	+/-180	+/-180
Survivability	IAW Sys spec SD-901-1	IAW Sys / IAW Sys spec / spec SD-901-1 / SD-901-1	IAW Sys Spec SD-901-1	IAW Sys Spec SD-901-1
Accuracy (CEP)				
Weapon (ft)	10	10 / 10	4.12	4.12
Weapon (Air Vehicle) (ft)	70	70 / 91	78	78
Range (nm from Launch at specified conditions)				
Low Altitude (NM)	>or=15 (200 ft MSL, .8	>or=15 / >or=12 (200 ft / (500 ft MSL, .8 / MSL, .8	>12	>or=12 (200 ft MSL, .8

High (NM @ 30K ft
MSL, .8 IMN)

Reliability

System Mission

(U) Acronyms:

AGL = Above Ground Level
 CEP = Circular Error Probable
 IAW = In Accordance With
 IMN = Indicated Mach No.
 KCAS = Knots Calibrated Air Speed
 LBA = Limits of Basic Airframe
 MSL = Mean Sea Level
 NM = Nautical Mile

*** UNCLASSIFIED ***

10b. ~~(S)~~ Performance Characteristics (Cont'd): ~~(U)~~
Unitary

b. Current Change Explanations -- None

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A-16 LONGBOW APACHE

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SELECTED ACQUISITION REPORT CLASSIFIED EXTRACT (RCS: DD-A&T(Q&A)823-831)
PROGRAM: LONGBOW APACHE

AS OF DATE: December 31, 2005

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Contract Information	N/A
Program Funding Summary	N/A
Delivery/Expenditure Information	N/A
Operating and Support Costs	N/A



1. (U) Designation and Nomenclature (Popular Name): AH-64D LONGBOW APACHE

2. (U) DoD Component: Army

3. (U) Responsible Office and Telephone Number:

ATTN: SF&E-AV-AAH

Building 5681

Redstone Arsenal, AL 35898-5000

COL DEREK PAQUETTE

Assigned: September 9, 2005

DSN 897-4200; COMM 256-313-4200

derek.paquette@peoavm.redstone.army
.mil

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Department of Defense

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~~Downgrade instructions: ACP~~

~~Declassify on: May 2030~~

~~Helicopter SCG - Dated 3 May 05~~

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06-C-0496

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10. (U) Performance Characteristics:

a. Performance --

	SAR Production <u>Estimate</u>	Approved APB <u>Obj/Threshold</u>	Demon- strated <u>Perf</u>	Current <u>Estimate</u>
Vertical Rate of Climb for AH-64D with FCR Mission Kit (ft/min)	450	450 / 450	705	450
Ordnance Load (primary mission config)				
Hellfire (no.)	16	16 / 12	8	12
Target Handover	No	No / 15%	13%	No
	degrada- tion	degrada- / degrada- tion / tion	Degrada- tion	degrada- tion
Engagement time (RF)	(b)(1)			
Hellfire in seconds				
Ao, Operational Availability (%) of AH-64D w/FCR Kit	79	79 / 75	91.4	79
(U) Acronyms:				
FCR - Fire Control Radar				
RF - Radar Frequency				

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(U) The objective for Ordnance Load (primary mission configuration) refers to AH-64A goal. The Longbow primary mission configuration is 8 Longbow Hellfire missiles, and 320 30mm rounds.

b. Current Change Explanations -- None

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