

BUDGET ITEM JUSTIFICATION SHEET

P-40

DATE:

February 2011

APPROPRIATION/BUDGET ACTIVITY

WEAPONS PROCUREMENT, NAVY/ BA 2 OTHER MISSILES

P-1 ITEM NOMENCLATURE

232700 HARM MODS

Program Element for Code B Items:

0204162N

Other Related Program Elements

0205601N

	Prior Years	ID Code	FY 2010	FY 2011	Base FY 2012	OCO FY 2012	Total FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	To Complete	Total
Quantity													
Cost (\$M)	63.4	B	47.8	53.5	73.1	0.0	73.1	88.9	131.9	136.1	158.3	515.6	1,268.7
Initial Spares (\$M)			2.9	2.5	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	5.6
Total (\$M)	63.4		50.7	56.1	73.3	0.0	73.3	88.9	131.9	136.1	158.3	515.6	1,274.3
Unit Cost (\$M)													

MISSION DESCRIPTION

AGM-88E ADVANCED ANTI-RADIATION GUIDED MISSILE (AARGM): AARGM is an ACAT-1C acquisition program to upgrade the Legacy AGM-88 High Speed Anti-Radiation Missile (HARM) with multi-mode guidance and targeting capability. AARGM program will integrate multi-mode guidance (passive Anti-Radiation Homing (ARH)/active Millimeter Wave (MMW) Radar/Global Positioning system(GPS)/Inertial Navigation System on the HARM AGM-88 missile. AARGM weapon system capabilities include: active MMW terminal guidance, counter shutdown, expanded threat coverage, enhanced ARH receiver, netted targeting real-time feed via Integrated Broadcast Service (IBS) prior to missile launch, weapon impact assessment transmission prior to detonation, GPS/point-to-point weapon navigation, and weapon employment with impact avoidance zone/missile impact zones. IBS Receiver interfaces will enable the warfighter to directly receive national intelligence data, providing additional AARGM targeting data to increase overall pilot situational awareness. Full Rate Production (FRP) AGM-88E AARGM units will possess the capability to engage and destroy non-traditional Suppression of Enemy Air Defenses/Destruction of Enemy Air Defenses and Overseas Contingency Operation targets.

DT-B1 began in FY 2004 and continued through 4Q FY 2008. Captive carry testing of Engineering Manufacturing Development hardware began in FY 2007. DT-B1 overlapped with DT-B2 which began in 3Q FY 2007. Operational Assessment was completed 4Q FY 2008. All live fire tests have been completed for DT-B2. Milestone C was achieved 4Q FY 2008, followed by a combined Low Rate Initial Production (LRIP) contract award in 1Q FY 2009. All live fire tests were completed in 4Q FY 2009 for DT-B2. Program began Initial Operational Test and Evaluation in 3Q FY 2010. In 4Q FY 2010, AARGM was decertified as a result of intermittent hardware and software failures. Failures have been corrected via updated software and the system is currently in Integrated Test and Evaluation (IT&E). Operational Evaluation (Operational Test C) is scheduled to resume 3Q FY 2011. LRIP 1 deliveries commenced 3Q FY 2010 and will complete 3Q FY 2011. LRIP II deliveries will begin in 3Q FY 2011. Planned LRIP III award in 3Q FY 2011 and deliveries will begin 3Q FY 2012. FRP decision is planned for 2Q FY2012.

FY 2010 and FY 2011 provides funding to procure modification kits for All Up Rounds (AURs), Captive Air Training Missiles (CATMs), container modifications, Dummy Air Training Missiles (DATMs), Engineering Change Orders (ECOs), tooling, and support leading to Initial Operational Capability (IOC).

FY 2012 provides funding to procure modification kits for AURs, CATMs, container modifications, DATMs, Engineering, ECOs, tooling, and support leading to Full Operational Capabilities.

P3A INDIVIDUAL MODIFICATION																																		
MODELS OF SYSTEM AFFECTED:		AGM-88E										TYPE MODIFICATION:		ADDED CAPABILITY										MODIFICATION TITLE:		HARM MODS								
DESCRIPTION/JUSTIFICATION:																																		
AARGM is an ACAT-1C acquisition program to upgrade the Legacy AGM-88 HARM missile with multi-mode/multi-spectral guidance and targeting. Milestone C was achieved 4Q FY 2008, followed by a combined LRIP contract award in 1Q FY 2009. LRIP 1 deliveries commenced 3Q FY 2010 and will complete 3Q FY 2011. LRIP II deliveries will begin 3Q FY 2011. Planned LRIP III deliveries will begin in 3Q FY2012. FRP Decision is planned for 2Q FY 2012.																																		
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																																		
LRIP III																																		
Prior Years		FY 2010		2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total		FY 2013		FY 2014		FY 2015		FY 2016		TC		TOTAL												
QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$											
FINANCIAL PLAN (IN MILLIONS)																																		
<i>RDT&E</i>		573.612		14.490		7.793		6.684		0.000		6.684		7.017		7.608		5.792		5.882		0.000		628.878										
<i>PROCUREMENT</i>																																		
INSTALLATION KITS		25 41.239		26 26.901		34 29.981		49 35.133		0 0.000		49 35.133		80 50.880		182 100.929		215 112.827		262 131.806		877 416.229		1750 945.925										
INSTALLATION KITS - UNIT COST		1.650		0.980		0.885		0.717		0.000		0.717		0.636		0.552		0.523		0.502		0.517												
CONTAINERS		14 0.623		17 0.445		22 0.606		36 1.003		0 0.000		36 1.003		52 1.473		97 2.795		114 3.326		137 4.083		448 13.845		936 28.199										
ENGINEERING CHANGE ORDERS		1.445		2.807		2.347		2.253		0.000		2.253		2.243		2.725		3.061		3.595		12.767		33.243										
PRODUCTION ENGINEERING SUPPORT		6.956		5.967		4.171		4.967		0.000		4.967		6.697		7.732		7.948		9.332		40.821		94.591										
TRAINING EQUIPMENT		2 3.299		7 6.860		10 8.818		23 16.491		0 0.000		23 16.491		24 15.264		12 6.624		12 6.276		12 6.024		19 9.823		121 79.479										
SUPPORT EQUIPMENT		1.713		2.021		2.657		2.517		0.000		2.517		1.719		0.000		0.000		0.000		0.000		10.627										
OTHER PRODUCTION SUPPORT		5.444		1.000		4.000		8.233		0.000		8.233		8.233		8.233		0.000		0.000		0.000		35.143										
INTEGRATED LOGISTICS SUPPORT		2.638		1.824		0.963		2.464		0.000		2.464		2.430		2.911		2.641		3.481		22.138		41.490										
TOTAL PROCUREMENT		63.357		47.825		53.543		73.061		0.000		73.061		88.939		131.949		136.079		158.321		515.623		1268.697										
Note:																																		
Totals may not add due to rounding.																																		

P3A (Continued)

MODELS OF SYSTEMS AFFECTED: AGM-88E MODIFICATION TITLE: HARM MODS

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Contractor Assembly at Plant

ADMINISTRATIVE LEADTIME: 5 Months PRODUCTION LEADTIME: 12 Months

CONTRACT DATES: _____ FY 2010: Jul-10 FY 2011: Apr-11 FY 2012: Apr-12
 DELIVERY DATE: _____ FY 2010: Jul-11 FY 2011: Apr-12 FY 2012: Apr-13

(\$ in Millions)

Cost:	Prior Years		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		To Complete		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS																				-	-
FY 2010 EQUIPMENT																				-	-
FY 2011 EQUIPMENT																				-	-
FY 2012 EQUIPMENT																				-	-
FY 2013 EQUIPMENT																				-	-
FY 2014 EQUIPMENT																				-	-
FY 2015 EQUIPMENT																				-	-
FY 2016 EQUIPMENT																				-	-
TO COMPLETE																				-	-
TOTAL INSTALL COST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

INSTALLATION SCHEDULE:

	FY 2009 & Prior	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				TC	TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-