

1. COMPONENT MDA	FY 2010 MILITARY CONSTRUCTION PROJECT DATA			2. DATE February 2010
3. INSTALLATION AND LOCATION6 Pacific Missile Range Facility (PRMF), Kauai, Hawaii		4. PROJECT TITLE Aegis Ashore (AA) Missile Defense Test Complex		
5. PROGRAM ELEMENT 0603892C	6. CATEGORY CODE 3121	7. PROJECT NUMBER MDA 627	8. PROJECT COST (\$000) Auth 68,500	
9. COST ESTIMATES				
ITEM	U/M (M/E)	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITIES				
AA Mark-41 Launcher Foundation	SM(SF)	929(10,000)	268.63	38,361 (250)
AA Launcher Support Building	SM(SF)	93(1,000)	5,832	(542)
AA Test Center	SM(SF)	2,919(31,420)	10,223	(29,841)
Power Distribution Lines	M(LF)	919(26,400)	3,858	(3,545)
3MW Power Transformer/Foundation	EA	1	574,418	(574)
BCSC-T Communications Foundation	SM(SF)	2,032(21,875)	261.82	(532)
Secure Area Access Control/Card Readers	EA	3	390,528	(1,172)
Perimeter Security Fencing/Gates	M(LF)	7,443	6,832	(1,769)
Archeological Monitoring	LS			(135)
SUPPORTING FACILITIES				
Electrical Services	LS			23,069 (7,752)
Water, Sewer, Gas	LS			(3,794)
Paving, Walks, Curbs and Gutters	LS			(2,620)
Site Imp (5,691)/Demo (0)	LS			(5,691)
Other (Mob/Demob)	LS			(3,212)
ESTIMATED CONTRACT COST				
CONTINGENCY (5.0%)				61,431 3,072
SUBTOTAL				64,503
SUPERVISION, INSPECT'N & OH (6.2%)				3,999
TOTAL COST				68,502
TOTAL ROUNDED COST				68,500
EQUIPMENT FROM OTHER APPROPRIATIONS (NON ADD)				278,000
10. DESCRIPTION OF PROPOSED CONSTRUCTION:				
This project constructs an Aegis Ashore (AA) Missile Defense Test Complex that consists of a AA Mark-41 Launcher Foundation, AA Launcher Support Building including launcher monitoring equipment, 400 Hz power conversion equipment, backup generator w/fuel tank and secondary containment structure, storage area for SM-3 Missile ground handling equipment and 3- ea 35-foot photo towers; AA Test Center is a 4-story building consisting of a SPY-1 radar w/3- ea 125-foot test towers, fire control area, mission analysis secure rooms, radar maintenance area, and backup generators w/fuel tanks and secondary containment structures. Power distribution lines provide approximately 5 miles of dedicated power and 1- ea 3MW Transformer with foundation for the MDA areas; BMDS Communications Support Complex-Transportable (BCSC-T) Foundation; and Secure Area Access Control Shelters with Card Readers and Perimeter Security fencing and gates. Construction of this project will provide anti-terrorism/force protection (AT/FP) security measures. Supporting facilities include; electrical services; water, sewer, and gas; paving, walks, curbs and gutters; storm drainage; fire protection and alarm systems; site improvements; and telecommunications systems. Access for the handicapped will be provided.				
11. REQ: 1 EA ADQT: NONE SUBSTD: NONE				
PROJECT: Construct a new Aegis Ashore (AA) Missile Defense Test Complex to support testing of the land based Aegis weapon system at PMRF. (New Mission)				

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REQUIREMENT: This project is required to provide enhanced test capability of AA in support the Ballistic Missile Defense System.																																
CURRENT SITUATION: Missile Defense Agency (MDA) has developed a ballistic missile defense system (BMDS) to ensure operational equipment and missiles adequately meet technological and threat assessments. This project supplements the BMDS and will enhance capability against short to medium threats against the United States and its allies. In keeping with the POTUS direction of 17 September 2009, the Aegis capability will be deployed ashore in 2015. This Aegis Ashore Missile Defense Test Complex is necessary to prove the system will satisfy capability requirements and meet the expectations of the Director of Operational Test and Evaluation (DOT&E). In addition, the site will be necessary to prove spiral developments of increased capability planned for 2018 and 2020.																																
IMPACT IF NOT PROVIDED: If this project is not provided, the Missile Defense Agency will not have adequate test facilities to develop and field the Aegis Ashore capability for this critical national asset. Additionally, the full potential to defend the United States, United States deployed forces, and allies against short and medium missile attack may be placed in jeopardy. There are no intentions to test the Aegis Ashore system on foreign soil. If the Aegis Ashore Missile Defense Test Complex is not developed, then an operationally realistic environment to test the operational suitability and effectiveness will not exist and not meet the POTUS directed requirement.																																
ADDITIONAL INFORMATION: Analogous cost estimates were derived from RSMeans, UFC 3-701-09 and analyzing costs for similar existing facilities at PMRF. This project is being coordinated with the installation's physical security plans and required physical security and/or combating terrorism (CBT/T) measures are being included. Environmental analysis and documentation has been initiated but will not be completed until end of 2 nd Quarter 2010. Economical alternatives considered after visiting various site and new construction is the only viable and preferred alternative.																																
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12. Supplemental Data (Continued):		
A. Estimated Deign Date (Continued):		
(3) Total Cost (000) (c)= (a)+(b) or (d)+(e)		
(a) Production of Plans and Specifications:	\$	3.591
(b) All other Design Costs:	\$	3.209
(c) Total Design Costs:	\$	6,800
(d) Contract:	\$	4,873
(e) In-house:	\$	1.927
(4) Construction Contract Award		DEC 2010
(5) Construction Start		Jan 2011
(6) Construction Complete		Mar 2012
B. Equipment associated with this project which will be provided from other appropriations:		
<u>Equipment</u> <u>Nomenclature</u>	<u>Procuring</u> <u>Appropriation</u>	<u>Fiscal Year</u> <u>Appropriated Cost</u> <u>Or Requested(\$000)</u>
Aegis Ashore Launch Equipment	RDT&E	FY10 \$ 6,000
Long Lead SPY-1 Radar Equipment	RDT&E	FY10 \$ 20,000
Network Equipment	RDT&E	FY10 \$ 27,000
Communications Equipment	RDT&E	FY11 \$ 25,000
Aegis Weapon System Equipment	RDT&E	FY11 \$ 110,000
Aegis Test Equipment	RDT&E	FY11 \$ 25,000
BCSC-T Equipment	RDT&E	FY08 \$ 65,000
		TOTAL \$ 278,000
Mr. Mark Burroughs, MDA/DPWB (256) 450-3356		