

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 1997		
BUDGET ACTIVITY 4 - Demonstration and Validation					PE NUMBER AND TITLE 0603863C HAWK Upgrades TMD				PROJECT 2358	
COST (\$ In Thousands)	FY 1996 Actual	FY 1997 Estimate	FY 1998 Estimate	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	Cost to Complete	Total Cost
2358 HAWK System BM/C3	22,819	0	0	0	0	0	0	0	TBD	TBD
<p>A. <u>Mission Description and Budget Item Justification</u></p> <p>The program consists of modifying the U.S. Marine Corps AN/TPS-59 long-range air surveillance radar and the HAWK weapon system to allow detection, tracking, and engagement of short-range TBMs and thereby provides a point defense Theater Missile Defense (TMD) capability to the Marine Air Ground Task Force. The program will also provide a communications interface between the AN/TPS-59 and the HAWK system by developing an Air Defense Communications Platform (ADCP). This Marine Corps TMD initiative is jointly funded with BMDO and will yield a low-risk, near-term capability for expeditionary forces against short-range ballistic missiles.</p> <p>The AN/TPS-59 long-range surveillance radar is the primary sensor for the Marine Air Control Squadron. The (V3) configuration developed under this program was enhanced to provide a TBM tracking and surveillance capability. The radar completed operational test and evaluation in FY 96 and initial modification kit production will begin in FY 97. Installation of the modification kits is scheduled to begin in FY 98 and complete in FY99.</p> <p>The HAWK weapon system modifications include upgrades to the Battery Command Post (BCP) and improvements to the HAWK missile that resulted in a missile configuration called the "improved lethality missile." The modified HAWK BCP will process cueing data to control the high power illuminator radar. The improved lethality missile will incorporate fuse and warhead improvements to 300 improved lethality missiles that have been transferred from the Army to the Marine Corps. Another 700 improved lethality missile modification kits will be procured and installed by the end of Fiscal Year 1997. Production of the BCP modification kits began in Fiscal Year 1995 and the installation of all BCP modifications was completed by the end of Fiscal Year 1996.</p> <p>The Air Defense Communications Platform (ADCP) will convert AN/TPS-59 data messages and Tactical Data Information Link-J (TADIL-J) formatted messages into the intra-battery data link formats required by the HAWK weapon system. The ADCP will also transmit TADIL-J formatted messages to other theater sensors. This communications interface has completed operational test and evaluation and initial production will begin in Fiscal Year 1997. Fielding of the ADCP is scheduled to begin in FY98 and complete in FY99.</p> <p>This project is assigned to the Budget Activity and Program Element codes as identified in this descriptive summary in accordance with existing Department of Defense policy.</p> <p><u>FY 1996 (\$ in Thousands)</u></p> <ul style="list-style-type: none"> - \$20,074 Complete AN/TPS-59 integration and testing. - \$2,452 Complete ADCP integration and testing. - \$293 Provide targets for live flight testing. - \$22,819 Total 										
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FY 1997 (\$ in Thousands)

- \$ BMDO participation in the program is completed in FY1996.
- \$0 Total

FY 1998 (\$ in Thousands)

- \$ BMDO participation in the program is completed in FY1996.
- \$0 Total

FY 1999 (\$ in Thousands)

- \$ BMDO participation in the program is completed in FY1996.
- \$0 Total

B. Program Change Summary (\$ in Thousands)

	<u>FY 1996</u>	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>Total Cost</u>
Previous President's Budget	22,312	0	0	0	
Current Budget Submit/President's Budget	22,819	0	0	0	

Change Summary Explanation:

Funding: Total funding remained unchanged, however adjustments were required to the individual tasks in order to accurately reflect the actuals (AN/TPS-59 integration testing from \$20,102 to \$20,074, ADCP integration and testing from \$2,430 to \$2,452 and targets from \$287 to \$293).

Schedule: The additional 700 improved lethality missile modification kits were scheduled to be procured and installed by the end of FY96. This date changed to the end of FY97 due to a protest which delayed the award of the modification kit contract. Milestone III dates were changed in FY95 in conjunction with changes to the test schedule which slipped developmental testing to 1st quarter FY96 and operational testing to 4th quarter FY96.

Technical: None

C. Other Program Funding Summary (\$ in Thousands)

	<u>FY 1996</u>	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>To Compl</u>	<u>Total Cost</u>
HAWK Procurement	5,046	19,379								

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D. Schedule Profile

	<u>FY 1996</u>				<u>FY 1997</u>				<u>FY 1998</u>				<u>FY 1999</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<u>Acquisition Milestone:</u>																
AN/TPS-59 Milestone III					X											
ADCP Milestone III						X										
<u>T&E Milestone:</u>																
AN/TPS-59 Development Tests	X															
AN/TPS-59 Operational Tests				X												
ADCP Development Tests	X															
ADCP Operational Tests				X												
<u>Other Program Events:</u>																
AN/TPS-59 Mod Fielding								X	X	X	X	X	X	X	X	X
ADCP Fielding								X	X	X	X	X	X	X	X	X