5 2240

GAO

United States General Accounting Office Report to the Honorable Frank R. Wolf, House of Representatives

March 1988

MODIFICATION PROGRAMS

Proposed Changes to the Army's Approval Process





041624/135346

GAO/N\$IAD-88-126BR

	, wa	,			
Kanana K			 	ай на с нар ан на также на	
					-
_			 	1 1 1 1 1	
				;	
				1	
	v				
					n



United States General Accounting Office Washington, D.C. 20548

National Security and International Affairs Division

B-230458

March 23, 1988

The Honorable Frank R. Wolf House of Representatives

Dear Mr. Wolf:

In response to your March 12, 1987, request, we have evaluated the concerns expressed by one of your constituents relating to the approval process for the modification of Army equipment. Your constituent believes that proposed changes in the way the Army approves equipment modifications would decentralize the management of such modifications with the following results:

- Project managers could approve equipment modifications without review by higher level Army management.
- The Army Materiel Command's (AMC) Materiel Change Branch would become inoperable. That office currently performs various functions in support of Army modification programs, including the review and approval of equipment modification policies and the maintenance of historical records of such modifications.

Procedures for implementing the proposed changes in the approval process for equipment modification will not be available before October 1988. As a result, in assessing your constituent's concerns, we relied primarily on a briefing presented to us by AMC on upcoming changes in the management of equipment modifications and on discussions with Army officials. We also examined Army documents relating to all product improvements that were active as of May 1987 but did not attempt to verify the data provided. Our review was conducted from June to November 1987.

Although the management of relatively low-cost equipment modifications would be decentralized under the Army's proposed plan, the greater portion of equipment modifications, in terms of cost, would still come under the review of the Office of the Secretary of the Army. The Materiel Change Branch would continue to operate, with slightly reduced responsibilities, but would maintain records for the more significant modifications.

Modifications	Modification cost range ^a	Approving authority Program Arm Project executive acquisitio manager officer executiv				
Table 1: Proposed Approval Authority for						
	The proposed procedures would establish three levels of approval authority as shown in table 1.					
	In August 1985, the Army Chief of Staff requested that AMC revise its procedures for managing engineering changes and product improve- ments in order to provide better visibility and control over such pro- grams. Under the proposed procedures, engineering change decisions (now made by project managers) and product improvement decisions (now made by Army headquarters) would be shared.					
	located at Army materiel developm changes, product improvements, re- approval at the highest level of aut headquarters. Frequently, there is Army begins to apply an approved units and the time the change come	gardless of cost, now require chority—Department of the Army a lengthy gap between the time the engineering change to production				
Proposed Changes to Current Management Procedures	When modifications are made to Army equipment, they may be applie to units of equipment still to come off the production line, to units of equipment already fielded, or to both. When the modification is applie to units that are still to come off the production line, it is referred to as an "engineering change." When the modification is applied to units already fielded, it is called a "product improvement," or "retrofit."					

^aApplies to the combined total cost of the engineering change and product improvement.

Ś.

Under the proposed plan, modifications exceeding \$25 million will require approval by the Army acquisition executive in the Office of the Secretary of the Army. The program executive officer, a newly created position in the acquisition management hierarchy, will be given the authority to approve modifications costing \$5 million to \$25 million.

Up to \$5 million

Over \$25 million

\$5 million to \$25 million

Х

Х

Х

	Each program executive officer generally oversees several project man- agers, has responsibility for several acquisition programs, and reports to the Army acquisition executive. Project managers will retain the author ity to approve modifications costing less than \$5 million. As a result of these revised procedures, Army headquarters will no longer be approv- ing many low-cost product improvement programs.			
Proposed Changes Provide High-Level Visibility	To provide some indication of how many changes would be reviewed and approved at various management levels under the proposed plan, we applied the proposed cost criterion to data available for the 715 product improvement programs active as of May 1987. Of the 715 pro- grams, 146 would have been approved at Army headquarters by the Army acquisition executive. Although these represented only 20 percent of all the product improvement programs, they constituted 89 percent of their cost—\$23 billion of a total of \$26 billion. Another 199 product improvement programs, or 28 percent of the total, would have been approved by the program executive officer. These programs represented \$2.4 billion, or approximately 9 percent, of the aggregate cost of the 715 product improvement programs. Project managers would have been authorized to approve 370, or 52 percent, of the programs. Although this represented over half of the number of active product improvement programs, their total cost was \$586 million—only 2 percent of the cost of all such programs.			
	These statistics suggest that the proposed changes will not result in a loss of visibility over major product improvements at the Army head- quarters level. Although we did not review engineering changes as we did product improvements, we believe that the proposed plan will pro- vide Army headquarters the added visibility over high cost changes with approval of low-cost modifications remaining with the project manager.			
AMC's Materiel Change Branch Will Remain Intact Under the Proposed Plan	The exact roles and responsibilities of the various participants after the Army implements the proposed changes are still unknown. According to the AMC official responsible for monitoring the implementation of the proposal, current plans do not call for the Materiel Change Branch to be dissolved. The Branch would perform most of the same functions that it has in the past except for equipment modifications costing less than \$5 million. Once the new procedures are implemented, the Branch will no longer maintain records of changes approved by project managers but will maintain data on the costlier, more significant changes approved			
	Page 2 CAO /NSIA D.92.198BD Proposed Modification Change			

Page 3

GAO/NSIAD-88-126BR Proposed Modification Changes

٠

above that level. According to our analysis, these would have constituted about 98 percent of the total cost of all product improvement programs that were active as of May 1987.

Moreover, according to the AMC official, the Materiel Change Branch could solicit product improvement information on the programs for which it will not be maintaining data directly from the responsible project manager, should this become necessary.

The Department of Defense reviewed a draft of this report and agreed with its content.

As arranged with your office, copies of this report will be available to interested parties upon request. Should you have any questions, please call me on 275-4133.

Sincerely yours,

Mark E. Jebike

Mark E. Gebicke Associate Director

Requests for copies of GAO reports should be sent to:

U.S. General Accounting Office Post Office Box 6015 Gaithersburg, Maryland 20877

Telephone 202-275-6241

The first five copies of each report are free. Additional copies are \$2.00 each.

There is a 25% discount on orders for 100 or more copies mailed to a single address.

Orders must be prepaid by cash or by check or money order made out to the Superintendent of Documents.

, ¹., . .

٠,٠

a a suite Suite United States General Accounting Office Washington, D.C. 20548 ,

Official Business Penalty for Private Use \$300 First-Class Mail Postage & Fees Paid GAO Permit No. G100

.

.