

100TH CONGRESS  
1st Session

HOUSE OF REPRESENTATIVES

REPORT  
100-58

**NATIONAL DEFENSE AUTHORIZATION ACT  
FOR FISCAL YEAR 1988/1989**

**R E P O R T**

OF THE

**COMMITTEE ON ARMED SERVICES  
U.S. HOUSE OF REPRESENTATIVES**

ON

**H.R. 1748**

together with

**ADDITIONAL AND DISSENTING VIEWS**

[Including cost estimate of the Congressional Budget Office]



APRIL 15, 1987.—Committed to the Committee of the Whole House on the  
State of the Union and ordered to be printed

function. This section would also place the operational test program under the jurisdiction of the Director of Operational Test and Evaluation.

#### CATAPULTS

##### *Committee recommendation*

The committee recommends deletion of the Navy's entire request of \$7.357 million for the Catapults program and additional authorization of \$6.0 million for the development of an Electromagnetic Aircraft Catapult system.

##### *Basis for committee action*

The purpose of the Navy's program was to develop reliable standardized legistically supportable weapons elevator components for aircraft carrier catapults. The Navy's request was to initiate a new program in fiscal year 1988 to accomplish these objectives. The committee recommends deletion of the Navy's request for its catapults program and in recognition of new technologies that can be applied to catapults, recommends that the authorization of \$6.0 million be provided for an Electromagnetic Aircraft Catapult system program.

Based on information received by the committee, electromagnetic catapults offer substantial weight and space savings on current aircraft carriers in addition to large cost savings on new carriers. The committee intends that the Navy work toward an operational, full-scale electromagnetic catapult in order to fully evaluate the safety, reliability, maintainability and electromagnetic interference features of electromagnetic catapults.

Section 212(b)(2) would require that \$6.0 million be authorized only for this purpose.

#### CHEMICAL MASK IMPROVED DRINKING SYSTEM

##### *Committee recommendation*

The committee recommends additional authorization of \$600,000 to the Army for development of a chemical mask improved drinking system.

##### *Basis for committee action*

The purpose of this program is to develop a drink tube system compatible with chemical warfare protective masks. The Army requested no funds for such a system for fiscal year 1988.

The committee has learned that the Army conducted an evaluation at Fort Knox, Kentucky, during 1985 of the Fluid Intake Suction Tubing (FIST) Hydration system. The evaluation conducted by volunteer personnel was a complete success. All volunteer test subjects commented that the FIST system was much more convenient and practical than the present gravity system and were able to remain in their equipment for much longer periods of time without the inconvenience and dehydration that is experienced with the present system.

The committee recommends authorization of \$600,000 for the purpose of outfitting as many units as possible with the FIST Hy-

\$ 600K  
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FY 88-89

dration system to evaluate the long-term benefits in order to reach a full production decision.

Section 212(a)(6) would provide that the authorization of \$600,000 be used only for the Chemical Mask Improved Drinking system program.

RG Bell  
July 6, 1989  
1700

TITLE I - PROCUREMENT  
DEFENSE WIDE ISSUES  
CHEMICAL DETERRENT PROGRAM

Chemical Mask Improved Drinking System

In the National Defense Authorization Act for Fiscal Years 1988 and 1989 (P.L. 100-180), Congress authorized \$600,000 for the Army to conduct operational test and evaluation of the Non-Developmental Item (NDI) Chemical Mask Improved Drinking System (CMIDS). The committee is encouraged to learn Army tests conducted to date on this NDI have shown that CMIDS is compatible with the new M40/42 gas mask and the two-quart flexible canteen which is issued to certain special units of the Army. Tests also revealed significant problems with the CMIDS when used with the Army's standard-issue rigid one-quart canteen and that the CMIDS would require material and basic design changes to be fully compatible in a chemical environment. Addressing these problems could provide a significant improvement in convenience and practicality over the present gravity system for fluid intake while wearing chemical protective masks. However, this NDI system will only be workable with the flexible two-quart canteen.

The committee directs the Army to continue a modified NDI program allowing the manufacturer of this NDI to make material and design changes in an attempt to meet design and chemical agent challenge requirements for an interim solution with the flexible two-quart canteen. Also, the Army will be permitted to carryover \$150K of P.L. 100-180 appropriated funding to FY90. NDI test and evaluation of CMIDS with the flexible two-quart canteen must be accomplished with these resources. The committee also directs the Army, based upon the findings and decisions of the entire Army Development, User, and Test communities, to begin a research and development program for a full solution mask drinking system compatible with all Army canteens in a chemical environment.

The committee recommends an authorization of \$1,000,000 for FY91 which shall be available only for the procurement of the modified NDI CMIDS compatible with the flexible two-quart canteen in a chemical environment. However, these funds may not be obligated unless the Secretary of the Army, based upon operational test results of the system, certifies to the Committees on Armed Services and Appropriations of the Senate and the House of Representatives that the directed buy of NDI CMIDS: (a) is compatible with the M40/42 gas mask and the flexible two-quart canteen in a chemical environment; and (b) provides an improvement in convenience and practicality over the present gravity system for fluid intake by troops wearing chemical protective masks.

11 May 1990

MEMORANDUM FOR C, Natick Procurement Division

SUBJECT: Reliability, Availability and Maintainability (RAM) Requirements in Solicitations and Contracts

## 1. References:

a. AR 702-3, Product Assurance, Army Materiel Systems Reliability, Availability, and Maintainability, effective 19 April 1989.

b. Procurement Work Directive (PWD) (NATICK Form 118a) for/to: Mask Drinking System (MDS)

\$1,447,000 (3 Phase)

Ref. No. 0-R449C

2. Referenced DA regulation specifies that solicitations and contracts for development of materiel include requirements for RAM in the Scope of Work. This requirement applies only to 6.3 and 6.4 development contracts.

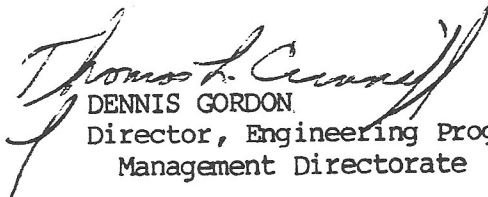
3. Review of referenced Procurement Work Directive relative to subject requirements indicates that:

☒ Effort to be covered by this PWD is not in the 6.3 or 6.4 stage of development and RAM is not applicable.

and ☒ Effort to be covered by this PWD is in the 6.3 or 6.4 stage of development

☐ RAM requirements are adequately covered.

☒ RAM requirements are not applicable because: The MDS is an expendable item.

  
DENNIS GORDON  
Director, Engineering Programs  
Management Directorate