



## COMBAT EQUIPMENT SUPPORT SYSTEMS

PROGRAM MANAGER INFANTRY COMBAT EQUIPMENT

### INDIVIDUAL WATER PURIFICATION SYSTEM



BLOCK I



BLOCK II



BLOCK III

#### REQUIREMENT

MNS Log 42 Marine Enhancement Program dtd 22 Oct 93  
SON 42.29 Individual Water Purifier w/chg2 dtd 03 Feb 04

#### OVERVIEW

The Individual Water Purification System (IWPS) is an evolutionary-phased three Block acquisition program. Block I is complete. Block II and III solutions are being pursued concurrently. The IWPS will be compatible with the current USMC hydration system (ILBE Hydration Pack).

The IWPS program is intended to provide the Marine with an improved ability to obtain portable water from any existing source to include turbid, brackish, or salt water. Bad taste and odor will be eliminated. It will filter some Toxic Industrial Chemical (TICs) and Toxic Industrial Materials (TIMs). Kill rates will be in accordance with the United States Environmental Protection Agency (USEPA) standards for microbiological purifiers and Tri Service drinking water standards. All components will be modular.

#### FIELDING STATUS

Limited quantities of the Block I MIOX Disinfectant Pen were fielded during FY04. Initially Marines used the Block I IWPS in small raids and reconnaissance units operating in austere or remote environments where routine potable water resupply was impractical.

#### PRODUCTION

If funding is available, completion of production ready Block II units will be available 12 months after contract funding received Mar 06.

#### FEATURES

##### Block I

- MIOX Disinfectant Pen illustrated below, resembles a large permanent marker.
- Includes an electrolytic cell and brine generation chamber.
- It is 6.75 inches long and weighs approximately 3.5 ounces with salt tablets and batteries.
- Provides protection from viral and bacterial waterborne diseases and protozoan cysts. (e.g. E Coli, Giardia, Cryptosporidiosis, hepatitis and less common protozoan and helminthes parasites)
- Compliant with, and has exceeded USEPA water standards for water consumption.

##### Block II

- The two components that make up Block II are a MIOX cap and a post filter.
  - The MIOX cap will incorporate capabilities associated with the MIOX pen.
  - The post filter fits between the drinking tube and bladder and will improve color, odor, durability and taste.
- Employs a self-contained, man-packable, NBC resistant, drink-on-the-move water storage/hydration system as a base platform.

##### Block III

- Addresses the need to also treat brackish water and salt water.

#### SUPPLY/LOGISTICS

TAMCN: Block I C3061  
Block II (MIOX Cap) TBD  
Block II (Post filter) TBD  
Block III TBD

ID No: Block I 11025A  
Block II (MIOX Cap) TBD  
Block II (Post filter) TBD  
Block III TBD

NSN: Block I 4610-01-513-8498  
Block II (MIOX Cap) TBD  
Block II (Post filter) TBD  
Block III TBD

#### PROJECT OFFICER

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