

Tactical Water Purification System (TWPS)

Provides mobile, tactical water purification for a broad range of water sources to meet water requirements within the division support area.



DESCRIPTION AND SPECIFICATIONS

The Tactical Water Purification System (TWPS) uses state-of-the-art reverse osmosis technology to produce 1,500 gallons per hour (GPH) of potable water from any source, including salt water and nuclear, biological, and chemical (NBC) contaminated water. This system will replace older 600-GPH reverse osmosis water purification units (ROWPU) on a one-for-two basis.

The TWPS includes a pretreatment system, chemical injection, high-pressure pump, reverse osmosis elements, control panel, valves, piping, cold weather protection, wastewater collection, five 3,000-gallon onion tanks, and ocean intake system. It also includes distribution equipment to fill canteens or 5 gallon water cans.

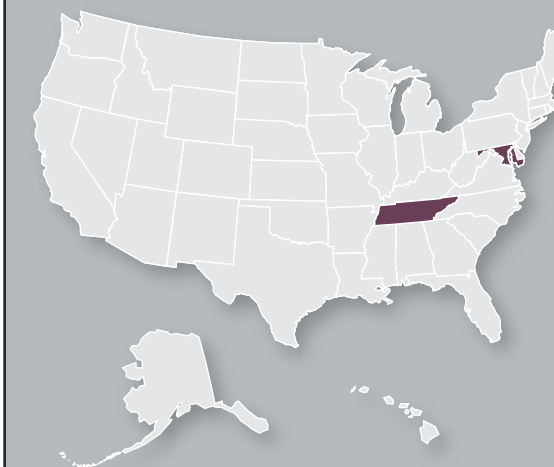
The Army's configuration is mounted on a Load Handling System (LHS) compatible flat rack, while the Marine Corps version is skid mounted. The system is set up by three people and operated by one. Either TWPS platform can be efficiently transported by a truck, train, marine vessel, or fixed-wing aircraft. Because each TWPS replaces two 600-GPH ROWPU, employment of the TWPS will reduce operator manpower requirements at each water point by 25 percent, providing substantial reductions in the combat service support footprint.

PROGRAM STATUS

- **4QFY04** Full-rate production decision

PROJECTED ACTIVITIES

- **Current** FY07 Production and fielding
- **2QFY05** Projected material release
- **3QFY05** First unit equipped



CONTRACTORS

SFA Frederick Manufacturing (Frederick, MD)
Aqua Chem (Knoxville, TN)

INVESTMENT COMPONENT

Modernization

ACQUISITION PHASE

- Production and Deployment

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