

# Modular Fuel System (MFS)

## INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance



## MISSION

To provide the capability to receive, store, transport, distribute, issue, surge, and redistribute fuel between brigades, refuel on-the-move operations, and deploy without construction support.

## DESCRIPTION

The Modular Fuel System (MFS), formerly known as the Load Handling System Modular Fuel Farm (LMFF), is transported by the Heavy Expanded Mobility Tactical Truck Load Handling System (HEMTT-LHS) and the Palletized Load System. It is composed of 14 2,500-gallon capacity tank rack modules (TRM) and two each pump and filtration modules. Each tank rack module has a baffled 2,500-gallon fuel storage tank and onboard storage compartments for hoses, nozzles, fire extinguishers, and grounding rods. The pump filtration module includes a 600-gallon-per-minute (GPM) diesel engine-driven centrifugal pump, filter separator, valves, fittings, hoses, refueling nozzles, and a manual hand pump for gravity discharge operations. Each pump filtration module has onboard storage for hoses, ground rods,

water cans, and fire extinguishers.

The pump module has an evacuation capability that allows the hoses in the system to be purged of fuel prior to recovery. The MFS's configuration can vary in size (total capacity) based on the type of force supported.

## SYSTEM INTERDEPENDENCIES

MFS TRM is interdependent with HEMTT Palletized Load System (PLS) and LHS for transportation.

## PROGRAM STATUS

- **3QFY08:** PEO CS&CSS approved MFS HEMTT/TRM interface
- **1QFY09:** ASA(ALT) signed un-termination letter restoring the MFS as an active program

## PROJECTED ACTIVITIES

- **2QFY09:** Complete MFS-TRM interface hardware
- **3QFY09:** Complete MFS-TRM interface logistics
- **4QFY09:** MFS-TRM initial operational test
- **1QFY10:** MFS-TRM full materiel release, full-rate production, type classification-standard
- **2QFY10:** MFS contract award

## ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

## Modular Fuel System (MFS)

### FOREIGN MILITARY SALES

None

### CONTRACTORS

DRS Sustainment Systems, Inc.

(St. Louis, MO)

E.D. Etnyre and Co. (IL)

