Modular Fuel System (MFS)

**MISSION**
Provides the ability to rapidly establish fuel distribution and storage capability at any location regardless of materiel handling equipment availability.

**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 tank rack modules (TRM) and two each of the pump and filtration modules, commonly known as pump rack modules (PRMs). Each TRM is air-transportable with a baffled, 2,500-gallon-capacity fuel storage tank and on-board storage compartments for hoses, nozzles, fire extinguishers, and grounding rods. MFS is compatible with current Army storage and distribution systems and those of other services and allied nations. The MFS’s configuration can vary in size (total capacity) based on the type of force supported and is rapidly employed, quickly set up, with the ability to operate with minimal assets and personnel.

The PRM includes a 600-gallon-per-minute (GPM) diesel engine-driven centrifugal pump, filter separator, valves, fittings, hoses, refueling nozzles, and a 25 GPM electric pump that allows fuel to be dispensed in emergency situations. The PRM has an evacuation capability that allows the hoses in the system to be purged of fuel prior to recovery and is capable of refueling both ground vehicles and aircraft.

TRMs can be used for bulk fuel distribution in concert with HEMTT Tankers. The HEMTT Tanker can transfer fuel to and from the TRM and can provide retail operations. The TRM doubles the HEMTT capacity. MFS is capable of receiving, storing, filtering, and issuing all kerosene based fuels.

**SYSTEM INTERDEPENDENCIES**
Other Major 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
- **2QFY09:** Complete MFS-TRM interface hardware
- **3QFY09:** Complete MFS-TRM interface logistics
- **1QFY10:** MFS-TRM initial operational test

**PROJECTED ACTIVITIES**
- **1QFY11:** MFS-TRM full materiel release, full-rate production, type classification standard
- **1QFY11:** MFS-TRM production contract award
- **3QFY12:** MFS-PRM full materiel release, full-rate production, type classification standard and production contract award
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FOREIGN MILITARY SALES
None

CONTRACTORS
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