Dry Cargo / Ammunition Ship

Lewis and Clark (T-AKE 1) Class
Mission
Deliver ammunition, provisions, stores, spare parts, potable water and petroleum products to carrier battle groups and other naval forces, serving as a shuttle ship or station ship.

Principal Characteristics
Length Overall: (689 ft.) 210.0M
Length between Perpendiculars: (654.7 ft.) 199.55M
Beam, Molded: (105.6 ft.) 32.2M
Draft, Design: (29.9 ft.) 9.12M
Draft, Scantling: (31.2 ft.) 9.50M
Displacement at Design Draft: 41,000 MT

Speed and Endurance
- Design Speed: 20 knots @ design draft and 80% propulsion MCR
- Range: 14,000 NM @ design speed and draft

Propulsion and Power Generation Plant
- Integrated propulsion and ship service electrical 6.6 kV distribution system
- Four FM/MAN B&W 9L and 8L 48/60 diesel generators with total installed power of 35.7 MW
- Propulsion plant meets American Bureau of Shipping R1 Redundancy requirements
- Twin synchronous, variable speed, reversible, double-wound, Alstom propulsion motors with brush/slip-ring excitation, each rated at 11,262 bkw at 120 rpm and mounted in tandem
- Single fixed-pitch propeller

Accommodations
Berthing, messing and leisure and community spaces for a combined Military Sealift Command naval and civilian complement of 172, plus 25 spares

Cargo Capacities
Dry cargo: 6,675 MT
Cargo fuel: 3,242 MT (23,450 bbl)
Cargo potable water: 200 MT (52,800 gal)

Cargo Systems
- Two multi-purpose cargo holds for dry stores and/or ammunition
- One cargo hold for freeze, chill and/or dry stores
- Three specialty cargo and spare parts cargo holds
- Additional specialty cargo spaces on 01 Level
- Extensive cargo prestaging areas on Main Deck
- Lightweight portable cargo dunnage system
- Five cargo fuel tanks plus one slop tank
- Two cargo potable water tanks
- Three dry cargo and one liquid cargo
- Connected Replenishment (CONREP) stations on each side
- Vertical Replenishment (VERTREP) by aircraft, using flight deck on Main Deck
- Capability for simultaneous operation of five CONREP stations, or three CONREP stations plus VERTREP
- Hangar and support facilities for two embarked military or commercial helicopters
- Four 5 MT cranes for loading and offloading pierside or at anchorage
- Eight cargo elevators for moving cargo between Main Deck and stowage locations

Special Features
- Firefighting systems include: seawater sprinkling and dewatering systems in cargo holds, foam system for flight deck, hangar and machinery space bilges, FM-200 clean agent fire extinguishing system for machinery spaces and certain other spaces
- Naval communications suite
- Air-conditioned cargo holds
- Bow thruster
- Extensive pollution control systems, including: ballast water exchange, cargo fuel vapor recovery, main and auxiliary diesel exhaust meet MARPOL Annex VI guidelines