Topics

- Safety
- Barge Characteristics / Equipment
- Standard Barge Manning
- Barge Loading Overview
- Barge Layout
References

- NAVSEA OP 5.
- NAVSEA SW394-EE-PRO-010.
- NAVFAC P-307.
- Explosive Movement Via Barge NMC-Y-02.
Safety

- All Handlers shall wear ASTM approved safety shoes and hard hats at all times.
- Leather palm gloves will be worn when handling slings and lines, and will never be worn when directing a crane.
- All hands shall remove all watches, rings, necklaces, and jewelry during all handling operations.
- Life vests shall be worn at all times when barge is underway,
- Minimum of four mooring lines connected to the ship.
- No spark producing devices or smoking allowed on barges.
- No other service barges alongside during ordnance handling operations.
- No other shipboard evolutions during ordnance operations.
Barge Characteristics / Equipment

- Overall Length: 200ft
- Extreme Beam: 65ft
- Navigational Draft: 8ft
- Waterline Length: 180ft
- Waterline Beam: 65ft
- Draft Limit: 7ft
- Full Displacement: 2480tons
- Net Explosive Weight: 60,000lbs

- One 100 Ton mobile crane
- Two 6K Forklifts
- One 10K Forklift
- Two personnel shelters
- Generator (power personnel shelters and air compressor)
- Air Compressor (to support air tools for PHS&T install/removal)
- Portable toilet
- Required Ordnance Handling Equipment (OHE)
### Standard Barge Manning (minimum per barge)

- **Safety Loading Officer**: 1 (embarks ship)
- **Senior Safety Observer (SO)**: 1 (embarks ship / E-6 or above)
- **Rigger in Charge**: 1 (embarks ship/signals crane movements)
- **Ammunition Administration**: 1 (embarks ship)
- **Barge SO**: 1 (safety of the barge)
- **Barge Supervisor**: 1 (overall supervisor of personnel on barge)
- **Rigger**: 1 (signals crane movements on barge)
- **Forklift drivers**: 2 (operates MHE on barge)
- **Ordnance Handlers**: 6
- **Crane Operators**: 2 (required to allow for operator relief during extended operations)

**TOTAL**: 17

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Distribution Statement A. Approved for public release; distribution is unlimited.
A maximum of 30 VLS missiles can be loaded on each barge for DDG/CG rearming operations.
   - This to allow adequate operating space to offload expended canisters, operate tilt fixture and remove/install PHS&T.

A maximum of 50 VLS missiles can be loaded on each barge during CG/DDG off-loading operations.
   - This is to ensure adequate operating room to operate tilt fixture and remove/install PHS&T.

A maximum of 64 VLS can be loaded on each barge during CG/DDG on-loading operations.
   - This is to ensure adequate operating room to operate tilt fixture and remove/install PHS&T.

A maximum of 140 VLS/Harpoon missiles can be loaded on each barge during T-AKE/CLF operations.
   - No requirement for tilt fixture, removal/installation of PHS&T or PHS&T staging area.
CG/DDG RE-ARMING LAYOUT (30 missiles)

- Expended Canister Lay Down Area
- Missile Lay Down Area
- PHS&T Installation/Removal Area
- OHE and Forklift Pocket Staging Area
- Tilt Fixture / HRB Operating Area
- PHS&T Lay Down Area
- Generator and Air Compressor
- Personnel Shelters

Distribution Statement A. Approved for public release; distribution is unlimited.
CG/DDG OFF-LOAD LAYOUT (50 missiles)

- Missile Lay Down Area
- PHS&T Installation/Removal Area
- OHE and Forklift Pocket Staging Area
- Tilt Fixture / HRB Operating Area
- PHS&T Lay Down Area
- Generator and Air Compressor
- Personnel Shelters

Distribution Statement A. Approved for public release; distribution is unlimited.
CG/DDG ON-LOAD LAYOUT (64 missiles)

- Missile Lay Down Area
- PHS&T Installation/Removal Area
- OHE and Forklift Pocket Staging Area
- Tilt Fixture / HRB Operating Area
- PHS&T Lay Down Area
- Generator and Air Compressor
- Personnel Shelters

Distribution Statement A. Approved for public release; distribution is unlimited.
T-AKE/CLF LAYOUT (140 missiles)

- Missile Lay Down Area
- OHE Staging Area
- Lifting Area
- Generator and Air Compressor
- Personnel Shelters

Distribution Statement A. Approved for public release; distribution is unlimited.
- 140 missile loaded for loading to T-AKE for rollback. (Subject T-AKE at anchorage in background)
Questions?