

December 9, 1942

Coal Burning Ships
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AN APPLICATION OF COAL FUEL TO ORIGINAL LIBERTY SHIP DESIGN VESSELS

1. Install screen bulkhead separating engine-room and boiler room.
2. Settling tanks, outboard of boilers, to be used as water ballast tanks.
3. Liberty boilers to be replaced by modified "single-pass" water tube boilers.
4. Boilers to be arranged facing forward and raised about two feet to provide adequate ash pits.
5. "Spreader-type" automatic stokers to be installed.
6. Install additional bulkhead subdividing No. 3 hold into permanent cross bunker aft and reserve bunker forward. Remove 'tween deck in cross bunker space and divide hatch and make hatch covers to suit.
7. Install W. T. tunnel or tunnels from fire-room through permanent cross bunker to reserve bunker. Fit W. T. doors in fire-room at after end of these tunnels.
8. Install two day-bunkers in upper part of fire-room adjacent to bunker bulkhead, rearrange 'tween deck spaces to suit.
9. Install two or more fore and aft trunk belt conveyors in permanent bunkers.
10. Install crushers in fire-room at ends of trunk conveyors through bunkers.
11. Install suitable conveyors to carry coal from crushers to day bunkers.
12. Install chutes from day bunkers to stoker hoppers.
13. Install suitable ash ejectors.