

NAVAL EXPERTS VIEW CHANGES

New Type British Dreadnaughts Feature Lessons Learned in War

By James L. West
Washington Staff Writer
The new British dreadnaughts Nelson and Rodney are being studied by naval constructors in an effort to determine what lessons should be learned from the designs of the previous generation of ships. The new ships are to be built under the terms of the Washington naval treaty, limiting to 35,000 tons.

These vessels embody the lessons learned from the World War, and naturally their plans are carefully guarded by the British admiralty. However, it is known that in many respects their design is a distinct departure from the dreadnaughts which preceded them.

One of the most noticeable changes and one puzzling naval officers is the change of the main gun from 15-inch to 16-inch. These officers have almost reached the conclusion that the main gun of the ship is inside the hull, and that attached to it is the heavy armor these ships carry.

This conclusion is predicated upon the known history of British naval constructors that a torpedo should not first strike the major hull of the ship. It was because of this that the British adopted the blister as a protection to the main hull in its older craft. Torpedo protection for American battleships is furnished in a series of hulls within, held with short, spaced bulkheads, to enable the ship to keep afloat.

Armor Change
The belief that the armor on the Nelson and Rodney is placed on an inner hull is further strengthened

OUT OUR WAY



THE ORCHID AND THE CACTUS

By Williams Toothpicks Passe; Industry Thrives

CHICAGO (AP). — Toothpicks may be social outlaws but every year their production increases by millions, says a Chicago manufacturer of the wooden slivers.

However, the wheels of the toothpick industry are not kept turning to supply the use for which they were originally intended. It's such things as using them to reach the body to count, stilet three-dinner sandwiches together and resorting to toothpicks when the poker chips run out that boost production.

A pair of kitchen shears with sanitary style handles and strong, sharp blades, is a useful tool. It can be used for chopping celery and apples, pickles for salad, chicken and other meats for cutting the heads and tails from fish, cutting the butter for breaded salads, bread for stuffing, marshmallows, dates, and nuts for desserts.



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found its mark the destructive gas from the explosion would force off the plates and thus their escape before seriously damaging the inner hull.

Another decided change of design in the British ships is that of placing all of the big guns forward instead of distributing them forward and aft as heretofore. By this concentrating the main magazines in a single section of the ship, greater armor protection can be given them. This is an important matter, as a single shell finding the magazine room would destroy the craft.

Full Range Guns

All of the big guns—also 15-inch rifles—have full range on either broadside, but only six can be trained dead ahead, as those in the third turret are below the superimposed middle turret. Of course, there can be no big gun fire astern.

Still another departure from the conventional design is the placing of all of the secondary defense rifles—4-inch guns—near the stern and the mounting of them in turrets which enables them to obtain an elevation of seventy degrees with a consequent increase in range.

There are three of these turrets on each side of the ship and each mounts two 4-inch rifles. This gives a fire of six guns on either broadside with an astern fire of four on each side, as the middle turret is raised above the other two.

In these ships the British have abolished the forward mast, with the bridge in front, and have replaced it with a castle-like structure within which are the several navigating bridges and on top of which is placed the fire control station.

This arrangement adds to the extremely odd looking appearance of the Nelson and Rodney. Astern is the usual tripod mast with a single bulky signal smoke-funnel between the mast and the huge castle, which is located aft of amidships.

Since the Nelson and Rodney have a speed of 23 knots, greater than that of other dreadnaughts, other nations in their replacement program undoubtedly will design craft of as great a speed.

The British ships also are longer than any other battleships, measuring 245 feet, which is more than two feet longer than any American battleship. Some naval constructors say this is from 75 to 80 feet

longer than would be expected for ships of their speed, and they have yet to figure out the reason for such extreme length.

In the opinion of American constructors, the Nelson and Rodney have a very serious defect in that so far as can be learned there is no provision for carrying and launching a single airplane. American battleships carry four planes with a catapult for launching, and this number may be increased in the case of the new ships to be laid down after 1929.

Vegetables and fruits are helpful in building up the "alkaline reserve." Most of these are acid when eaten, but this acid is in a form which is burned in the body, thereby releasing the alkaline substances held in combination.

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