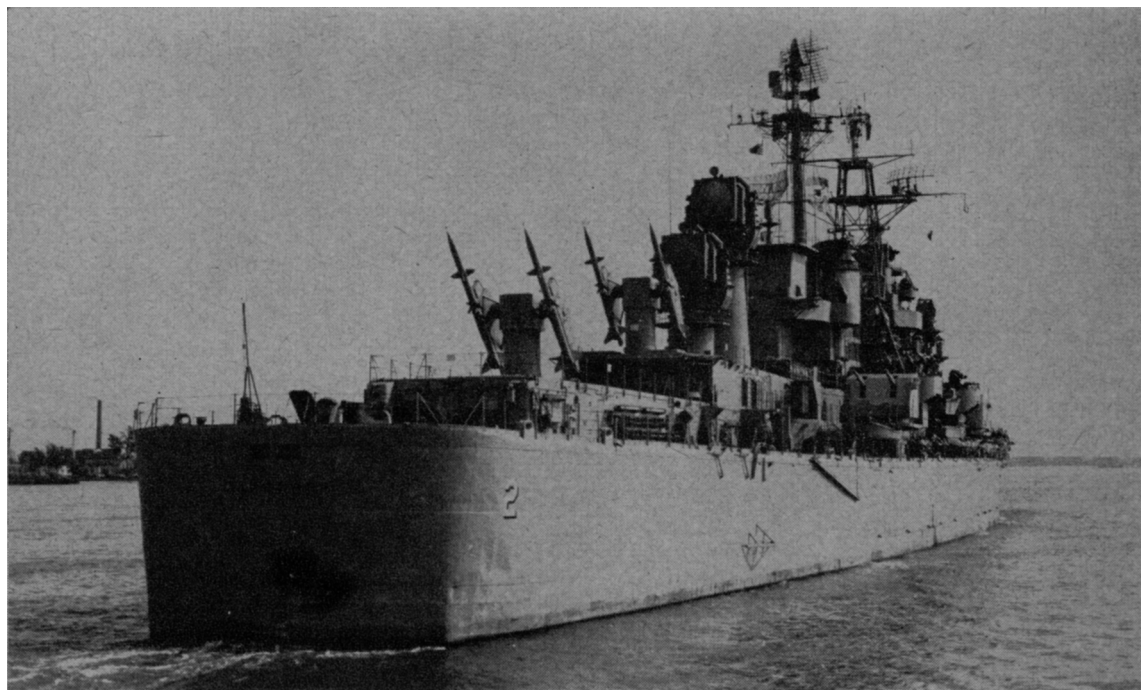


OF CURRENT INTEREST

CRUISER U. S. S. Canberra is equipped with a long-secret class of super-radars whose antennas resemble gigantic searchlights.



Sperry Gyroscope Co. Photo

Missile Ship Super-Radars Are Revealed by U. S. Navy

A LONG-SECRET CLASS of super-radars—now in service with the fleet for guidance of its Terrier missiles—was revealed recently by the U. S. Navy.

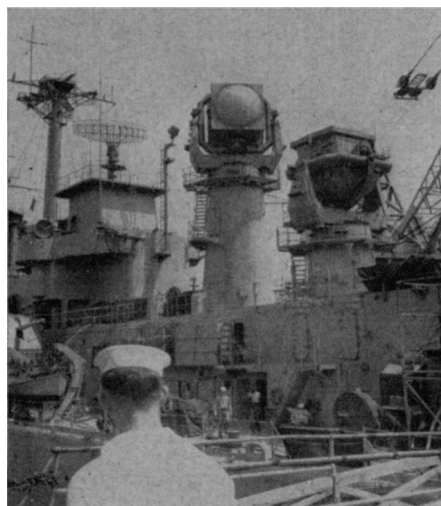
Subject of speculation since first displayed aboard the guided missile cruiser *U. S. S. Canberra* (CAG-2), massive, turret-like antennas for the new radars have radically changed the contours of the nation's fighting ships. Although the radar antennas, which resemble gigantic searchlights, attracted considerable attention during President Eisenhower's recent trip on the Terrier-equipped *U. S. S. Canberra*, this announcement was first to identify the structures. Only limited general information regarding the new AN/SPQ-5 radars was released, however.

Developed for U. S. Navy

Developed for the U. S. Navy by Sperry Gyroscope Company, Great Neck, N. Y., the long-range, high-altitude missile guidance radar systems came into fleet use only after years of successful tests. According to Rear Admiral F. S. Withington, chief of the U. S. Navy's Bureau of Ordnance, the SPQ-5 Terrier radars "provide the navy's newest missile ships with added punch and power through increased accuracy and range."

Adm. Withington added that the new super-radars were a part of the navy's

program directed toward providing the fleet with highly reliable missiles to combat supersonic jet aircraft. "Our new radar systems," he said, "are giving exceptionally



Sperry Gyroscope Co. Photo

RESEMBLING gigantic searchlights, massive, turret-like structures aboard the U. S. Navy's missile ship *U. S. S. Canberra* have been identified as super-radar antennae for guidance of Terrier missiles.

high performance for tenacious, stable guidance of supersonic missiles, whether fired singly or in salvos at individual or multiple enemy attackers." He confirmed that the two SPQ-5 systems aboard the *U. S. S. Canberra* combine many automatic radar functions in each unit. Either system can control the missiles from a single launcher or battery, which fires the Terrier missile, or both radars can track different target groups simultaneously.

Flexible Scanning

The SPQ-5 radar systems include flexible modes of scanning the air space many miles beyond the horizon, providing the advantage of early warning. Individual targets can be selected from close-flying groups and tracked at great distances while the missiles are launched and guided with "accuracy."

Concurrently, it was announced that a new manufacturing facility at Charlottesville, Va., The Sperry Piedmont Company, is producing the super-radars for the navy. Completed in October 1956, the plant includes special facilities to accommodate the massive radar antennae "barbettes" used aboard ship.

Two cruisers, the *U. S. S. Boston* and the *U. S. S. Canberra*, have been converted to Terrier-equipped missile ships and have joined the fleet.