

The CHAIRMAN. Thank you very much, Mr. Secretary.

We have, sitting quietly over here, a very able service man. We have had him before our Committee. He has given us a great deal of help. I refer to Vice Admiral John T. Hayward, Deputy Chief of Naval Operations for Development.

Admiral Hayward, if you have a statement you would like to make, we would be glad to have it at this time.

(The biographical sketch of Admiral Hayward is as follows:)

VICE ADM. JOHN T. HAYWARD, U.S. NAVY

Born in New York City on November 15, 1908, Adm. John Tucker Hayward had 15 months' enlisted service before his appointment to the Naval Academy in August 1926. As a Midshipman he excelled in water polo, being a member of intercollegiate championship teams for 3 years and All-American in 1930. Graduated and commissioned ensign in 1930, he subsequently advanced to the rank of vice admiral, in 1959.

His early service included sea duty in the U.S.S. *Richmond*, and for saving the lives of members of a swimming party at Tela, Honduras, in June 1931 while attached to that cruiser, he was awarded the Silver Life Saving Medal by the U.S. Treasury Department. He was designated naval aviator on September 13, 1932, and subsequently served in carrier based Scouting Squadron 1; Patrol Squadron 2, based on Coco Solo, C.Z.; the aviation unit of the cruiser *Philadelphia*; and as senior aviator of the cruiser *Phoenix*.

Prior to and following the outbreak of World War II he served as Assistant Chief Engineer (for Instruments) at the Naval Aircraft Factory, Philadelphia, and while so assigned had duty in 1940-41 as U.S. Naval Observer with the Royal Air Force. From December 1942 until March 1943 he had command of Headquarters Squadron, Fleet Air Wing 2, on the west coast. He commissioned, then commanded Bombing Squadron 106 in 1943-44, and for outstanding service in action in the Central, South, and Southwest Pacific, was awarded the Silver Star Medal, Legion of Merit, Distinguished Flying Cross (four times, once by the Army), the Air Medal (five times). He was also awarded the Purple Heart Medal for wounds received during the bombing of Canton Island by enemy aircraft in March 1943, and is entitled to the Army Distinguished Unit Ribbon for service with the 5th Air Force.

In June 1944 he became experimental officer at the Naval Ordnance Test Station, Inyokern, Calif., where he worked on all phases of rocket development and the development of, and study of destruction caused by the atom bomb. He received a letter of commendation from the Secretary of the Navy for extraordinary achievement in that field. From July to December 1948 he was Director of Plans and Operations for the Armed Forces, Sandia Base, Albuquerque, N. Mex., concerned with the use of atomic weapons and integration of military requirements with the Los Alamos Scientific Laboratory.

He has a total of over 12,000 hours of flight as a pilot and has participated over many years in the development of new aircraft. He was the first naval aviator to land heavy attack aircraft on board our carriers and had the job of putting the atom into the fleet. The present heavy attack squadrons all began when he assumed command of Composite Squadron 5 in December 1948. He held this command until June 1951. This was followed by a tour of duty with the Atomic Energy Commission (Military Application Division), a year at sea in command of the carrier escort vessel *Point Cruz*, and command of the Naval Ordnance Laboratory from June 1954 to January 1956.

He commanded the giant aircraft carrier U.S.S. *Franklin D. Roosevelt* from February 1956 until January 1957, when he became Special Assistant to the Director, Strategic Plans Division, Office of the Chief of Naval Operations. In October 1957 he assumed the duties of Assistant Chief of Naval Operations (Research and Development) and in April 1959 reported as Deputy Chief of Naval Operations (Development).

Navy: Office of Information, Biographies Branch, January 6, 1961.

Personal data:

Born: November 15, 1908, New York, N.Y.

Parents: Charles B. Hayward (deceased) and Rosa Valdetarro Hayward (father was associated with Wright brothers and prominent in aviation. Author of outstanding texts on aeronautics).