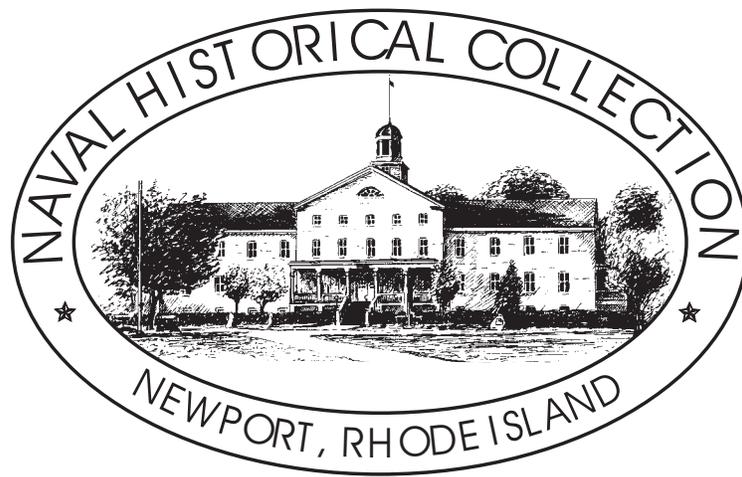


Register of the John T. Hayward Papers



Naval War College
Newport, RI



REGISTER OF THE PAPERS OF JOHN T. HAYWARD

COMPILED BY
EVELYN M. CHERPAK, PH.D.

MANUSCRIPT REGISTER SERIES
NO. 29

NAVAL HISTORICAL COLLECTION
NAVAL WAR COLLEGE
NEWPORT, RHODE ISLAND
1999

TABLE OF CONTENTS

	PAGE
ACKNOWLEDGEMENTS.....	1
CHRONOLOGY OF NAVAL SERVICE.....	2
BIOGRAPHICAL SKETCH.....	4
DESCRIPTION OF PAPERS.....	7
ARRANGEMENT OF PAPERS.....	10

ACKNOWLEDGEMENTS

Lori Critz arranged the John T. Hayward Papers as her project for both a Special Collections course and an Independent Study course at the University of Rhode Island Graduate School of Library and Information Studies from September 1997 to August 1998. She did yeoman work in sifting through a massive amount of material collected by Admiral Hayward over a sixty year period, and more than anyone else is responsible for the organization of the collection.

Rhoda Sanchez, College student summer assistant in 1998, labelled and foldered a major portion of the collection while Lieutenant Commander Martha Guzman, USNR, labelled and foldered the photographs and typed a portion of the manuscript register. Lieutenant Timothy Rudy, USNR, typed the remaining portion of the manuscript register. Robert Moore, student summer assistant in 1999, proofread the register. All of these individuals played a significant role in preparing this collection for use by researchers.

CHRONOLOGY OF NAVAL SERVICE

OF

JOHN T. HAYWARD

1908 Born, November 15, New York, NY

1925 Enlisted in the U.S. Navy, June 19

1926 Honorable discharge, U.S. Navy, June 12

1930 Graduated U.S. Naval Academy, Annapolis, MD; Commissioned Ensign

1930-1931 USS Richmond (CL-9)

1931-1932 Naval Air Station, Pensacola, FL, Flight Instruction

1932 Designated, Naval Aviator, September 13

1932-1935 Scouting Squadron One-B, USS Langley (CV-1)

1935 Scouting Squadron One-B, USS Ranger (CV-4)

1935-1937 Patrol Squadron Two-F, Aircraft Squadron, Coco Solo, Canal Zone;
Promoted to Lieutenant 1937

1937-1938 USS Philadelphia (CL-41), Aviation Unit

1938-1940 USS Phoenix (CL-46), Senior Aviator

1940-1941 U.S. Naval Observer, Royal Air Force

1940-1942 Naval Aircraft Factory, Navy Yard, Philadelphia, PA, Assistant Chief
Engineer for Instruments

1942-1943 Headquarters Squadron, Fleet Airwing Two, CO; Promoted to Lieutenant
Commander 1943

1943-1944 Bombing Squadron 106, CO

1944-1947 Naval Ordnance Test Station, Inyokern, CA, Experimental Officer;
Promoted to Commander 1947

1947-1948 Sandia Base, Albuquerque, NM, Director of Plans and Operations, Armed
Forces

1948-1951	Composite Squadron Five, CO
1951	Promoted to Captain
1951-1953	U.S. Atomic Energy Commission, Washington, D.C., Military Application Division
1953-1954	USS Point Cruz, (CVE-119), CO
1954-1956	U.S. Naval Ordnance Laboratory, White Oak, MD, CO
1956-1957	USS Franklin D. Roosevelt (CVB-42), CO
1957	Office of the Chief of Naval Operations, Director of Strategic Plans Division; Promoted to Rear Admiral
1957-1959	Assistant Chief of Naval Operations, Research and Development
1959-1962	Deputy Chief of Naval Operations, Development
1962-1963	Carrier Division Two, Commander
1963	Promoted to Vice Admiral
1963-1966	Anti-Submarine Warfare Force, Pacific Fleet, Commander
1966-1968	Naval War College, Newport, RI, President
1968	September 1, Retired from the U.S. Navy

Biographical Sketch

John T. Hayward was born on November 15, 1908, in New York City to Charles B. Hayward and Rosa Valdetarro Hayward. His father was involved in the development of aviation early on and was associated with the Wright Brothers. He was the author of several books on aeronautics.

Young Hayward enlisted in the Navy in 1925 and was sent to the Naval Training Station in Newport, RI, where he met and was counseled by Father John J. Brady, a Catholic priest, who encouraged him to apply for entrance to the U.S. Naval Academy. Hayward was honorably discharged from the Navy in 1926 and accepted at the Academy where he excelled in water polo and was named All American in 1930. He graduated that same year with the rank of ensign and reported to the cruiser *USS Richmond*. While in the *Richmond* off the Honduran coast in 1931, he saved the lives of several members of a swimming party and was awarded the Silver Life Saving Medal by the U.S. Treasury Department, the first of many awards and medals he received during his naval career.

Hayward next reported to the Naval Air Station, Pensacola, Florida, in 1931 for pilot training and was designated a naval aviator in 1932. Much of his career prior to and during World War II was spent in aviation. He was assigned to various Scouting and Patrol Squadrons and was senior aviator in the cruiser *Phoenix*. In 1940-1941, he was an observer with the Royal Air Force and in 1943-1944 served in the Central, South and Southwest Pacific as Commander of Bombing Squadron 106. In 1949, he had the distinction of being the first pilot to land a heavy attack aircraft with nuclear weapons on an aircraft carrier.

As Experimental Officer at the Naval Ordnance Test Station in Inyokern, California, from 1944 to 1947, he was involved in the development of rocketry and in a study of the potential destruction of the atom bomb. At the close of the war, he went to Japan as a member of the Hiroshima and Nagasaki study.

In 1947, he was assigned to the Manhattan Project at the Sandia Base in Albuquerque, New Mexico, where he worked on the operational functioning of the atom bomb.

Assignments in the field of atomic weapons continued in the nineteen fifties when he was appointed head of weapons research in the Division of Military Application of the Atomic Energy Commission in 1951. There he was involved in planning for the atomic weapons laboratory work at Los Alamos and Sandia. In 1952, he was instrumental in obtaining funding for the establishment of the Atomic Energy Commission's Lawrence Livermore Laboratory in California. In 1954, he was named commander of the Naval Ordnance Laboratory at White Oak, a position he held through 1956.

Hayward's work on the various atomic energy projects brought him into contact with the greatest scientific minds of the war and post-war era, including Dr. Edward Teller and Dr. Norris Bradbury. Passionately interested in higher education and in physics, he took graduate courses in physics and mathematics at the University of Pennsylvania, Temple University, the University of New Mexico, Stanford University and the University of Maryland over a twenty year period.

In 1957, Hayward returned to sea as CO of the aircraft carrier *Franklin D. Roosevelt*. From 1957 to 1961, he was assigned as Deputy CNO for Research and Development where he was instrumental in the construction of the first nuclear powered aircraft carrier, the *USS Enterprise*. In 1966, he assumed the presidency of the Naval War College in Newport, RI, where he succeeded in obtaining funding for the construction of three new buildings at the institution and in revising the curriculum, making it a more demanding and rigorous intellectual experience for the students. Other innovations included the establishment of the Board of Advisors to the president, the appointment of a permanent civilian academic advisor, and the creation of additional academic chairs. When he retired from the Navy on September 1, 1966, the College was on a firm footing.

Upon his retirement, Hayward became the Vice President, International, at General Dynamics Corporation, serving in that capacity from 1968 to 1973. In 1973, he formed Hayward Associates and was

a consultant to other defense related companies. He served on the boards of the Hertz Foundation, the Charles Stark Draper Laboratories, the Newport Country Club, Salve Regina College, the Naval War College Foundation and the Steadman Mutual Funds. He received an honorary Doctor of Science Degree from the University of Portland (Oregon) in 1965 and an honorary Doctor of Laws Degree from Providence College in 1967.

He was a member of many organizations, including the Aeronautics Astronautics Institute of America, the Royal Aeronautical Society, the American Physical Society, the American Association for the Advancement of Science, the New York Yacht Club, the English Speaking Union and the Naval War College Foundation.

Hayward received many honors and decoration during his naval career. He was a recipient of the Order of the British Empire, the Brazilian Southern Cross, the French Legion of Honor, Knight Commander of Italy, the Silver Star, the Distinguished Service Medal, the Distinguished Flying Cross, the Legion of Merit, the Purple Heart, the Bronze Star, six Air Medals, the W. Blandy Ordnance Medal, the European Campaign Medal, the Navy Commendation Medal, the American Campaign Medal, the Asiatic, Pacific Campaign Medal, the Korean Campaign Medal, the Vietnam Campaign Medal and the Second Nicaraguan Campaign Medal. His civilian awards were the W.S. Parsons Scientific Award, the L.T. E. Thompson Medal in Engineering, the R.D. Conrad Scientific Medal and the Silver Wings Award.

Hayward married Leila Hyer of Pensacola, Florida in October 1932. They had five children: Mary, Leila, Victoria, Jennifer and John. Admiral Hayward resided in Atlantic Beach, Florida, and Newport, Rhode Island.

Admiral Hayward died of cancer in Atlantic Beach, Florida, on May 23, 1999, at the age of ninety. He is survived by his children and a sister, Marjorie Madey of Baton Rouge, Louisiana. Funeral Services were held in Jacksonville, Florida on May 28. A burial service was held on June 14 in Arlington National Cemetery and a memorial service on June 19 in St. Mary's Church in Newport, RI.

Description of Papers

The Hayward papers were presented to the Naval War College Foundation for deposit in the Naval Historical Collection in 1995 and 1998 by VADM John T. Hayward, USN (Ret.) of Newport, Rhode Island, and Atlantic Beach, Florida.

The collection consists of sixty-nine boxes of personal papers that span the admiral's naval career and retirement activities. The collection contains biographical information, his correspondence, correspondence of others, his speeches and writings, speeches and writings of others, subject files, naval papers, miscellany and photographs. The admiral's aviation logs are not part of this collection and are located at the Pensacola Naval Air Museum in Pensacola, Florida. Other than that one gap, the collection is a comprehensive collection of material documenting a naval career of over forty years and a career in the civilian defense industry that spanned two and a half decades.

Series One, Biographical information, contains his official naval biography, a biographical statement for General Dynamics, Who's Who in America and The Blue Book 1970 Questionnaire, a passport application, a membership application for the Greenwich (CT.) Country Club, authentication of his birth date, personal information from the Class of 1930 Alumni News column in Shipmate and a vita.

Correspondence, Series II, consists of official and personal letters sent and received, although the latter are the larger segment. Most of the letters sent are carbon copies and date from the 1950s through the early 1990s; they focus on naval matters and Hayward's corporate connections. Correspondents include political leaders, academicians, business associates, family members and flag rank officers of the U.S. Navy. Letters received, the larger segment, date from 1931 to 1994. Significant correspondents are: Admirals Jeremy Boorda, Thomas Hayward, J. L. Holloway, Richard G. Colbert, Stansfield Turner, Arleigh Burke, George Anderson and Hyman Rickover, Governor John Connally, Senator John Chafee, Senator Stuart Symington, Secretary of Defense Harold Brown, Senator Claiborne Pell, Senator Henry Jackson, Hanson Baldwin, Dr. David Rosenberg and Sister Lucille McKillop. Included in this series are Hayward's letters to the editors of the United States Naval Institute Proceedings, The Providence Journal,

The New York Times, and U.S. News and World Report for the years 1971-1997, and letters of others not addressed to Hayward, 1943-1993, that treat with naval issues.

Speeches, notes for speeches and speeches of others comprise Series III. Admiral Hayward gave innumerable speeches on a wide variety of topics during his naval career to civic groups, clubs, associations, preparatory schools, college, universities, and military and naval organizations. Some of the topics that he addressed include the Navy and national defense, international law, atomic energy, Navy research and development, Navy weapons systems, missile warfare, leadership, science and space technology and sea power. There are speeches on educational and patriotic themes as well. This series contains his testimony before the U.S. Senate on the satellite program, several transcripts of TV programs on which he appeared, and interviews regarding his position as Executive Officer, Naval Ordnance Test Station, 1944-1947, and as a member of the Air Intelligence Group, Naval Intelligence, Chief of Naval Operations Office in 1944. The last segment of this series contains speeches by others, including Admiral W.S. Parsons, 1946-1948, naval officers, academics, political leaders and corporate executives on military, naval and scientific topics. These date from 1950 to 1993.

The fourth series contains the admiral's writings and includes the writings of others that he collected. One of the major components of the series is an unpublished manuscript entitled Cry the Rebel authored by Hayward. It is an account of the heroes and innovators of the U.S. Navy. Another major segment of the series is Hayward's autobiography and the diary that he kept from 1942 to 1962. There are numerous published articles dating from the 1930s to 1990 that appeared in the United States Naval Institute Proceedings, Government Executive, Navy, The Hook, Ordnance, Signal, The Government Executive, and the GE Quarterly. Most of these were written on topics pertaining to the Navy, air power and instrumentation in the Service, weapons, military problems, nuclear warfare and international relations. The series contains some unpublished articles and drafts and several poems with themes relating to World War II. The remainder of the series contains articles written by historians, academicians, scientists, government officials and newspaper reporters on scientific topics, naval warfare, technology, the Fleet,

democracy, strategy, tactics, National Security, air power, sea power, and the Soviet Union. These date from 1944 to 1992.

Naval papers comprise Series V and include the admiral's orders, change of duty and temporary duty assignments, travel vouchers, reimbursement papers, physical examination reports and medals and awards from 1926 through 1973.

Series VI, Subject Files, is one of the largest in the collection and contains information on a wide array of navy and defense related topics, as well as meetings, conferences, associations, corporate and academic boards on which the admiral served, General Dynamics where he was employed, people and ships. Annual Reports, corporate and technical reports, minutes of meetings, correspondence, memoranda, information manuals, articles, expense account data, budgets, invoices, lists, programs, proposals, brochures, phone directories, policy statements, notes, notices and miscellaneous material make up the bulk of the material in this series that encompasses the years 1939 to 1994.

There is an extensive collection of career related and personal photographs that date from the 1920s to 1991 in Series VII. They include photographs spanning Hayward's entire naval career and include pictures of military leaders, royalty, including Princess Grace of Monaco and King Constantine and Queen Anne Marie of Greece, ships, including *USS Little Rock*, *USS Enterprise*, *USS Midway*, *USS Point Cruz*, *USS Franklin D. Roosevelt*, *USS Phoenix*, and *USS Shenandoah*, World War II in the Pacific, radiation victims at Nagasaki, and family photos.

The last series in the collection is entitled Miscellany and contains passports, visas, certificates, rosters and membership lists, maps, pamphlets and newspaper clippings that document Hayward's naval and retirement career.

John T. Hayward Papers

Series I, Biographical Information

Box	Folder	
1	1	Biographical Information
1	2	Biographical Information
1	3	Biographical Information

Series II, Correspondence

Box	Folder	
1	1	Correspondence, Letters sent, 20 February 1936 - 27 August 1936
1	2	Correspondence, Letters sent, 2 September 1942 - 4 January 1949
1	3	Correspondence, Letters sent, 27 March 1951 - 16 November 1951
1	4	Correspondence, Letters sent, 20 March 1952 - 12 December 1952
1	5	Correspondence, Letters sent, circa 4 March 1953, 22 January 1953
1	6	Correspondence, Letters sent, circa 5 March 1953, 11 May 1953
1	7	Correspondence, Letters sent, 13 January 1954
1	8	Correspondence, Letters sent, 18 August 1956
1	9	Correspondence, Letters sent, 23 August 1956 - 25 August 1956
1	10	Correspondence, Letters sent, 27 August 1956
1	11	Correspondence, Letters sent, 28 August 1956 - 31 August 1956
1	12	Correspondence, Letters sent, 1 September 1956 - 5 September 1956
1	13	Correspondence, Letters sent, 8 September 1956 - 18 September 1956
1	14	Correspondence, Letters sent, 20 September 1956 - 18 December 1956
1	15	Correspondence, Letters sent, 7 April 1962 - 27 April 1962
1	16	Correspondence, Letters sent, 4 May 1962 - 31 May 1962
1	17	Correspondence, Letters sent, 1 June 1962 - 15 June 1962
1	18	Correspondence, Letters sent, 16 June 1962 - 4 July 1962
1	19	Correspondence, Letters sent, 10 July 1962 - 26 September 1962
1	20	Correspondence, Letters sent, 20 October 1962 - 13 November 1962
1	21	Correspondence, Letters sent, 17 November 1962 - 21 December 1962
1	22	Correspondence, Letters sent, circa 1962
1	23	Correspondence, Letters sent, 2 January 1963 - 31 January 1963
1	24	Correspondence, Letters sent, 1 February 1963 - 30 March 1963
1	25	Correspondence, Letters sent,

1 26 6 April 1963 - 3 May 1963
 26 Correspondence, Letters sent,
 6 May 1963 - 8 October 1963
 1 27 Correspondence, Letters sent,
 9 October 1963 - 17 December 1963
 1 28 Correspondence, Letters sent, circa 1963
 1 29 Correspondence, Letters sent,
 25 January 1964 - 19 March 1964
 1 30 Correspondence, Letters sent,
 13 April 1964 - 4 December 1964
 1 31 Correspondence, Letters sent, circa 1964
 1 32 Correspondence, Letters sent,
 17 February 1965 - 18 July 1965
 1 33 Correspondence, Letters sent,
 14 September 1965 - 22 October 1965
 1 34 Correspondence, Letters sent, circa 1965
 2 1 Correspondence, Letters sent,
 3 October 1966 - 7 November 1966
 2 2 Correspondence, Letters sent,
 12 January 1967 - 28 September 1967
 2 3 Correspondence, Letters sent,
 4 October 1967 - 10 October 1967
 2 4 Correspondence, Letters sent,
 13 October 1967 - 7 November 1967
 2 5 Correspondence, Letters sent,
 15 April 1968 - 20 December 1968
 2 6 Correspondence, Letters sent,
 26 March 1969 - 30 October 1969
 2 7 Correspondence, Letters sent,
 22 July 1970 - 10 December 1970
 2 8 Correspondence, Letters sent,
 5 January 1971 - 30 August 1971
 2 9 Correspondence, Letters sent,
 1 September 1971 - 28 December 1971
 2 10 Correspondence, Letters sent,
 5 January 1972 - 7 February 1972
 2 11 Correspondence, Letters sent,
 9 February 1972 - 22 March 1972
 2 12 Correspondence, Letters sent,
 27 March 1972 - 7 June 1972
 2 13 Correspondence, Letters sent,
 8 June 1972 - 14 July 1872
 2 14 Correspondence, Letters sent,
 17 July 1972 - 15 August 1972
 2 15 Correspondence, Letters sent,
 22 August 1972 - 17 September 1972
 2 16 Correspondence, Letters sent,
 10 October 1972 - 10 October 1972
 2 17 Correspondence, Letters sent,
 11 October 1972 - 25 October 1972
 2 18 Correspondence, Letters sent,
 1 November 1972 - 30 November 1972
 2 19 Correspondence, Letters sent,
 2 January 1973 - 30 January 1973
 2 20 Correspondence, Letters sent,
 6 February 1973 - 23 February 1973
 2 21 Correspondence, Letters sent,
 19 March 1973 - 29 March 1973
 2 22 Correspondence, Letters sent,
 9 April 1973 - 25 April 1973

2 23 Correspondence, Letters sent,
2 May 1973 - 30 May 1973

2 24 Correspondence, Letters sent,
1 June 1973 - 3 July 1973

2 25 Correspondence, Letters sent,
9 July 1973 - 7 August 1973

2 26 Correspondence, Letters sent,
10 August 1973 - 31 August 1973

2 27 Correspondence, Letters sent,
14 September 1973 - 26 November 1973

2 28 Correspondence, Letters sent,
27 November 1973 - 29 November 1973

2 29 Correspondence, Letters sent,
15 January 1974 - 20 June 1974

3 1 Correspondence, Letters sent,
21 April 1975 - 12 November 1975

3 2 Correspondence, Letters sent, 4 February 1976

3 3 Correspondence, Letters sent,
17 April 1977 - 17 September 1977

3 4 Correspondence, Letters sent,
14 January 1978 - 27 December 1978

3 5 Correspondence, Letters sent,
6 January 1979 - 21 May 1979

3 6 Correspondence, Letters sent,
18 June 1979 - 20 December 1979

3 7 Correspondence, Letters sent, circa 1970's

3 8 Correspondence, Letters sent,
7 January 1980 - 26 December 1980

3 9 Correspondence, Letters sent,
1 January 1981 - 26 March 1981

3 10 Correspondence, Letters sent,
6 April 1981 - 30 April 1981

3 11 Correspondence, Letters sent,
1 May 1981 - 21 September 1981

3 12 Correspondence, Letters sent,
14 October 1981 - 9 December 1981

3 13 Correspondence, Letters sent, circa 1981

3 14 Correspondence, Letters sent,
3 January 1982 - 22 December 1982

3 15 Correspondence, Letters sent, 14 July 1983

3 16 Correspondence, Letters sent, 12 December 1984

3 17 Correspondence, Letters sent,
24 June 1985 - 12 July 1985

3 18 Correspondence, Letters sent, 16 December 1987

3 19 Correspondence, Letters sent,
17 July 1989 - 23 August 1989

3 20 Correspondence, Letters sent,
6 January 1990 - 6 May 1990

3 21 Correspondence, Letters sent,
21 May 1990 - 14 October 1990

3 22 Correspondence, Letters sent, 1 February 1991

3 23 Correspondence, Letters sent,
3 February 1992 - 20 July 1992

3 24 Correspondence, Letters sent,
5 August 1992 - 20 December 1992

3 25 Correspondence, Letters sent, circa 1992

3 26 Correspondence, Letters sent,
22 February 1993 - 23 August 1993

3 27 Correspondence, Letters sent, circa 1993

3 28 Correspondence, Letters sent,

2 February 1994 - 14 July 1994
 3 29 Correspondence, Letters sent, circa 1994
 3 30 Correspondence, Letters received,
 14 April 1931 - 13 December 1939
 3 31 Correspondence, Letters received,
 8 December 1941 - 28 October 1949
 3 32 Correspondence, Letters received,
 13 January 1950 - 30 June 1952
 3 33 Correspondence, Letters received,
 11 July 1952 - 12 December 1952
 3 34 Correspondence, Letters received,
 28 January 1953 - 14 May 1953
 3 35 Correspondence, Letters received,
 10 July 1953 - 28 December 1955
 3 36 Correspondence, Letters received,
 7 February 1956 - 31 March 1956
 3 37 Correspondence, Letters received,
 2 April 1956 - 23 July 1956
 4 1 Correspondence, Letters received,
 24 July 1956 - 30 July 1956
 4 2 Correspondence, Letters received,
 30 July 1956 - 4 August 1956
 4 3 Correspondence, Letters received,
 7 August 1956 - 14 August 1956
 4 4 Correspondence, Letters received,
 15 August 1956 - 18 August 1956
 4 5 Correspondence, Letters received,
 21 August 1956 - 31 August 1956
 4 6 Correspondence, Letters received,
 September 1956 - 18 July 1957
 4 7 Correspondence, Letters received,
 29 September 1958 - 30 October 1959
 4 8 Correspondence, Letters received, circa 1950's
 4 9 Correspondence, Letters received,
 19 January 1960 - 28 May 1960
 4 10 Correspondence, Letters received, circa 1960
 4 11 Correspondence, Letters received,
 9 March 1961 - 14 December 1961
 4 12 Correspondence, Letters received,
 8 January 1962 - 30 March 1962
 4 13 Correspondence, Letters received,
 1 April 1962 - 15 May 1962
 4 14 Correspondence, Letters received,
 16 May 1962 - 6 June 1962
 4 15 Correspondence, Letters received,
 7 June 1962 - 28 June 1962
 4 16 Correspondence, Letters received,
 3 July 1962 - 22 August 1962
 4 17 Correspondence, Letters received,
 19 September 1962 - 28 December 1962
 4 18 Correspondence, Letters received, circa 1962
 4 19 Correspondence, Letters received,
 4 January 1963 - 31 January 1963
 4 20 Correspondence, Letters received,
 1 February 1963 - 26 February 1963
 4 21 Correspondence, Letters received,
 1 March 1963 - 29 March 1963
 4 22 Correspondence, Letters received,
 1 April 1963 - 24 April 1963
 4 23 Correspondence, Letters received,

4 24 10 June 1963 - 30 September 1963
 24 Correspondence, Letters received,
 25 1 October 1963 - 20 December 1963
 4 25 Correspondence, Letters received, circa 1963
 4 26 Correspondence, Letters received,
 27 8 January 1964 - 6 April 1964
 4 27 Correspondence, Letters received,
 1 13 April 1964 - 10 December 1964
 5 1 Correspondence, Letters received,
 2 8 January 1965 - 16 August 1965
 5 2 Correspondence, Letters received,
 3 8 September 1965 - 15 December 1965
 5 3 Correspondence, Letters received, circa 1965
 5 4 Correspondence, Letters received,
 5 25 August 1966 - 28 October 1966
 5 5 Correspondence, Letters received,
 6 30 January 1967 - 31 August 1967
 5 6 Correspondence, Letters received,
 7 12 September 1967 - 31 October 1967
 5 7 Correspondence, Letters received,
 8 10 May 1968 - 12 December 1968
 5 8 Correspondence, Letters received,
 9 15 January 1968 - 14 June 1968
 5 9 Correspondence, Letters received, circa 1968
 5 10 Correspondence, Letters received,
 11 27 January 1969 - 2 October 1969
 5 11 Correspondence, Letters received,
 12 5 January 1970 - 26 June 1970
 5 12 Correspondence, Letters received,
 13 2 July 1970 - 31 December 1970
 5 13 Correspondence, Letters received,
 14 20 January 1971 - 29 March 1971
 5 14 Correspondence, Letters received,
 15 2 April 1971 - 29 June 1971
 5 15 Correspondence, Letters received,
 16 1 July 1971 - 23 August 1971
 5 16 Correspondence, Letters received,
 17 14 September 1971 - 10 November 1971
 5 17 Correspondence, Letters received,
 18 12 November 1971 - 29 November 1971
 5 18 Correspondence, Letters received,
 19 7 December 1971 - 30 December 1971
 5 19 Correspondence, Letters received,
 20 2 January 1972 - 25 February 1972
 5 20 Correspondence, Letters received,
 21 28 February 1972 - 30 March 1972
 5 21 Correspondence, Letters received,
 22 3 April 1972 - 29 April 1972
 5 22 Correspondence, Letters received,
 23 1 May 1972 - 23 June 1972
 5 23 Correspondence, Letters received,
 1 3 July 1972 - 28 July 1972
 6 1 Correspondence, Letters received,
 2 7 August 1972 - 28 September 1972
 6 2 Correspondence, Letters received,
 3 3 October 1972 - 31 October 1972
 6 3 Correspondence, Letters received,
 4 1 November 1972 - 11 December 1972
 6 4 Correspondence, Letters received,
 12 December 1972 - 14 December 1972

6	5	Correspondence, Letters received, 5 January 1973 - 30 January 1973
6	6	Correspondence, Letters received, 2 February 1973 - 8 March 1973
6	7	Correspondence, Letters received, 19 March 1973
6	8	Correspondence, Letters received, 20 March 1973 - 11 April 1973
6	9	Correspondence, Letters received, 17 April 1973 - 18 May 1973
6	10	Correspondence, Letters received, 21 May 1973 - 30 June 1973
6	11	Correspondence, Letters received, 11 July 1973 - 29 July 1973
6	12	Correspondence, Letters received, 2 August 1973
6	13	Correspondence, Letters received, 8 August 1973 - 27 September 1973
6	14	Correspondence, Letters received, 1 October 1973 - December 1973
6	15	Correspondence, Letters received, 10 January 1974 - 6 February 1974
6	16	Correspondence, Letters received, 15 March 1974 - 20 March 1974
6	17	Correspondence, Letters received, 3 April 1974 - 16 September 1974
6	18	Correspondence, Letters received, 28 February 1975 - 23 May 1975
6	19	Correspondence, Letters received, 16 June 1975 - 12 September 1975
6	20	Correspondence, Letters received, 14 October 1975 - 22 December 1975
6	21	Correspondence, Letters received, 28 January 1976 - 27 May 1976
6	22	Correspondence, Letters received, 29 January 1976 - 3 September 1976
6	23	Correspondence, Letters received, 4 September 1976 - 22 December 1976
7	1	Correspondence, Letters received, 6 January 1977 - 23 March 1977
7	2	Correspondence, Letters received, 8 April 1977 - 24 May 1977
7	3	Correspondence, Letters received, 31 May 1977 - 7 July 1977
7	4	Correspondence, Letters received, 14 July 1977 - 13 September 1977
7	5	Correspondence, Letters received, 16 September 1977 - 9 December 1977
7	6	Correspondence, Letters received, 15 December 1977 - 29 December 1977
7	7	Correspondence, Letters received, 4 January 1978 - 20 March 1978
7	8	Correspondence, Letters received, 6 April 1978 - 26 January 1978
7	9	Correspondence, Letters received, 24 July 1978 - 19 December 1978
7	10	Correspondence, Letters received, 2 January 1979 - 20 February 1979
7	11	Correspondence, Letters received, 1 March 1979 - 23 April 1979

7 12 Correspondence, Letters received,
3 May 1979 - 31 July 1979

7 13 Correspondence, Letters received,
3 August 1979 - 29 August 1979

7 14 Correspondence, Letters received,
20 September 1979 - 19 October 1979

7 15 Correspondence, Letters received,
1 November 1979 - 30 November 1979

7 16 Correspondence, Letters received, circa 1970's

7 17 Correspondence, Letters received,
8 February 1980 - 20 June 1980

7 18 Correspondence, Letters received,
1 July 1980 - 30 September 1980

7 19 Correspondence, Letters received,
2 October 1980 - 30 December 1980

7 20 Correspondence, Letters received, circa 1980

7 21 Correspondence, Letters received,
6 January 1981 - 30 March 1981

7 22 Correspondence, Letters received,
1 April 1981 - 30 April 1981

7 23 Correspondence, Letters received,
1 May 1981 - 18 May 1981

7 24 Correspondence, Letters received,
21 May 1981 - 29 June 1981

8 1 Correspondence, Letters received,
7 July 1981 - 26 August 1981

8 2 Correspondence, Letters received,
7 September 1981 - 29 December 1981

8 3 Correspondence, Letters received, circa 1981

8 4 Correspondence, Letters received,
4 January 1982 - 30 March 1982

8 5 Correspondence, Letters received,
6 April 1982 - 23 October 1982

8 6 Correspondence, Letters received, circa 1982

8 7 Correspondence, Letters received,
23 May 1983 - 17 October 1983

8 8 Correspondence, Letters received,
6 August 1984 - 12 December 1984

8 9 Correspondence, Letters received,
20 May 1985 - 2 December 1985

8 10 Correspondence, Letters received, circa 1986

8 11 Correspondence, Letters received,
18 September 1987 - 3 November 1987

8 12 Correspondence, Letters received,
12 December 1988 - 14 December 1988

8 13 Correspondence, Letters received,
12 February 1989 - 13 February 1989

8 14 Correspondence, Letters received,
14 February 1989 - 23 May 1989

8 15 Correspondence, Letters received,
9 June 1989 - 8 November 1989

8 16 Correspondence, Letters received,
10 January 1990 - 7 March 1990

8 17 Correspondence, Letters received,
26 March 1990 - 31 May 1990

8 18 Correspondence, Letters received,
7 June 1990 - 3 August 1990

8 19 Correspondence, Letters received,
14 August 1990 - 27 December 1990

8 20 Correspondence, Letters received, circa 1990

8 21 Correspondence, Letters received,
4 January 1991 - 27 April 1991

8 22 Correspondence, Letters received,
17 May 1991 - September 1991

8 23 Correspondence, Letters received,
7 October 1991 - 20 December 1991

8 24 Correspondence, Letters received,
13 January 1992 - 30 April 1992

8 25 Correspondence, Letters received,
8 May 1992 - 8 October 1992

8 26 Correspondence, Letters received,
12 October 1992

8 27 Correspondence, Letters received,
15 October 1992 - 29 December 1992

8 28 Correspondence, Letters received, circa 1992

8 29 Correspondence, Letters received,
11 January 1993 - 4 May 1993

8 30 Correspondence, Letters received,
15 May 1993 - 21 July 1993

9 1 Correspondence, Letters received, 1993

9 2 Correspondence, Letters received,
4 January 1994 - 8 May 1994

9 3 Correspondence, Letters received,
25 May 1994 - 4 August 1994

9 4 Correspondence, Letters received, circa 1994

9 5 Correspondence, Letters to editors,
22 March 1971 - 24 April 1975

9 6 Correspondence, Letters to editors,
29 April 1976 - 11 June 1976

9 7 Correspondence, Letters to editors,
14 February 1977 - 8 July 1979

9 8 Correspondence, Letters to editors, circa 1974

9 9 Correspondence, Letters to editors,
2 October 1980 - 6 August 1989

9 10 Correspondence, Letters to editors,
14 September 1990 - 26 August 1997

9 11 Correspondence, Letters to editors, no date

9 12 Correspondence, Letters by others,
29 July 1943 - 6 August 1948

9 13 Correspondence, Letters by others,
4 November 1951 - 12 May 1954

9 14 Correspondence, Letters by others,
5 May 1961 - 10 November 1966

9 15 Correspondence, Letters by others,
11 April 1967 - 20 June 1969

9 16 Correspondence, Letters by others,
24 March 1970 - 17 April 1972

9 17 Correspondence, Letters by others,
22 May 1972 - 18 October 1972

9 18 Correspondence, Letters by others,
17 January 1973 - 27 April 1973

9 19 Correspondence, Letters by others,
4 May 1973 - 6 November 1975

9 20 Correspondence, Letters by others,
17 November 1975 - 1 February 1977

9 21 Correspondence, Letters by others,
3 March 1977 - 26 October 1977

9 22 Correspondence, Letters by others,
1 February 1978 - 23 March 1979

9 23 Correspondence, Letters by others,

		7 January 1980 - 6 August 1980
9	24	Correspondence, Letters by others, 21 January 1981 - 18 March 1981
9	25	Correspondence, Letters by others, 25 March 1981 - 8 September 1981
9	26	Correspondence, Letters by others, 20 February 1982 - 13 November 1987
9	27	Correspondence, Letters by others, 15 February 1989 - 29 August 1989
9	28	Correspondence, Letters by others, 6 March 1990 - 8 May 1990
9	29	Correspondence, Letters by others, 24 May 1990 - 13 February 1993
9	30	Correspondence, Letters by others, circa 1990's

Series III, Speeches

Box	Folder	
10	1	Speeches, Article about CDR Hayward's views on Japan; Japan, 20 December 1945
10	2	Speeches, The New Renaissance, 1946; untitled, 6 May 1946
10	3	Speeches, The Future of Warfare, 1947?
10	4	Speeches, Nuclear Power, 15 February 1948; Nuclear Power, 1948
10	5	Speeches, Military Application of Atomic Energy, 18 January 1949; VFW San Francisco speech, 30 May 1949
10	6	Speeches, War Lessons in Design of Accessories and Instruments, 1940's
10	7	Speeches, Military Problems, Los Alamos, 1950
10	8	Speeches, Atomic Energy As An Industry, United States Atomic Energy Commission, 18 March 1953
10	9	Speeches, The Past Is Prologue, 1955; The Influence of Technical Progress On The Navy, 1955?
10	10	Speeches, Atomic Energy As An Industry, 6 May 1956
10	11	Speeches, The Organization and Mission of the Navy, 20 September 1957; Speech given at Sandia Base, 8 November 1957
10	12	Speeches, A Strategy of the Navy in Limited War, 1958; Speech, 19 January 1958
10	13	Speeches, Speech for the New York Photographers Association Annual Dinner, 15 February 1958; Engineers Build Broader Horizons, speech to National Society of Professional Engineers, 20 February 1958
10	14	Speeches, The Navy in the Post-Sputnik Era, 27 March 1958; Navy Research and Development, speech given at the Air University, Maxwell Air Force Base, Alabama, 11 April 1958
10	15	Speeches, Warheads and Reliability, Patrick Air Force Base, 17 April 1958; statement given to Select Committee on Astronauts and Space Exploration, House of Representatives, 18 April 1958; What Price Liberty, Wheeling College, 29 April 1958
10	16	Speeches, Development Time, 15 May 1958; Development Time, Aviation Writers Association, Corpus Christi, Texas, 26 May 1958
10	17	Speeches, Problems in Research Areas that Face the Navy, National War College, 14 July 1958; Power For Peace, 15 July 1958
10	18	Speeches, Launching USS PARSONS, 19 August 1958; Impact

of Latest Reorganization on the Navy, given to CIA Naval Reserve Co. #552, 15 September 1958; New Weapon Systems and Their Requirements, Boston, 16 October 1958

10 19 Speeches, Atomic Energy, Rotary Club, Jacksonville, Florida, 11 November 1958; The Navy's Need for Fundamental Research, New York City, 3 December 1958

10 20 Speeches, Navy Space Capability, AM Rocket Society, New York City, 19 November 1958; The Navy in the Post-Sputnik Era, NRDC, Division 15, New York, 1958; speech, 1958

10 21 Speeches, Guided Missiles and Manned Aircraft, 1958

10 22 Speeches, Management Seminar, New York City, 26 January 1959; statement to Science and Astronauts Committee, House of Representatives, 4 February 1959; speech at NOWS luncheon, 3 March 1959

10 23 Speeches, Engineers in Support of Defense, San Antonio, Texas, 14 April 1959; statement for the subcommittee on Governmental Organization for Space Activities of the Committee on Aeronautical and Space Sciences, U. S. Senate, 15 April 1959

10 24 Speeches, The Challenge, 24 April 1959; The Next Ten Years of Manned Aircraft, Aviation Writers, 15 May 1959; speech, 25 May 1959; US Naval Ordnance Laboratory, 25 May 1959; Military Electronics, Institute of Radio Engineers, Shoreham, 30 June 1959

10 25 Speeches, Research and Development Planning and Management, Elgin Air Force Base, 6 July 1959; Navy's Philosophy of Development, 16 July 1959

10 26 Speeches, Space Flight, Naval Reserve Company, 12 August 1959

10 27 Speeches, Impact of the DOD Reorganization on Navy Research and Development Procedures and Organization, given to FY59 Rear Admiral Selectees, 20 August 1958; The Challenge, American Legion, Minneapolis, 21 August 1959

10 28 Speeches, The Navy Research and Development Program, 75th Anniversary of Electrical Engineers, 7 October 1959; Research and Development in the Navy, 10th Anniversary of ORL Water Tuner, 7 October 1959; speech to Ground Support Equipment Symposium, 13 October 1959

10 29 Speeches, Navy Day Speech, Akron, Ohio, 27 October 1959; speech given in Woods Hole, Mass., 4 December 1959

10 30 Speeches, speech to high school students, Wheeling, West Virginia, 1959; The New Navy, 1959; Why Should Man Explore Space, Franklin Institute, 1959

10 31 Speeches, Atomic Weapons: Present and Future, 14 April 1959; Tactics and Strategic Plans, 1959; speech to 3rd Annual Special Weapons Symposium of the Bureau of Aeronautics, 1959

10 32 Speeches, speech in Jacksonville, Florida, 10 January 1960; R & D Aspects of Reliability, Washington, D.C., 12 January 1960

11 1 Speeches, The Future of Air-Breathing Engines, given before the 4th Advisory Group for Aeronautical Research and Development colloquium on "High Mach Number Air-Breathing Engines", Milan, Italy, 4 April 1960

11 2 Speeches, Navy's Role In Missile Warfare, New York City, 21 January 1960; speech given to Management Seminar, New York City, 26 January 1960

11 3 Speeches, Future Naval Weapon Systems (1965-1970), 3 February 1960

11 4 Speeches, speech to The Sons of the Revolution, Richmond, Virginia, 20 February 1960; luncheon speech in Chattanooga, TN, 23 February 1960; statement to House Committee on Science and Astronautics, 15 March 1960

11 5 Speeches, speech to Armed Forces Management Association, National Convention, Atlanta, GA, 5 December, 1960; Program Management Budget Operation, ASW Presentation to NSJA, April 1960; Role of Deputy Chief of Naval Operations Development, presented to NSIA, 21 April 1960; The Challenge, Indianapolis, IN, 22 April 1960

11 6 Speeches, Importance of R&D to National Security, Chicago, IL, 25 April 1960; The Navy's Role in Missile Warfare, Loyalty Day, Wilkes Barre, PA, 30 April 1960

11 7 Speeches, given to Naval Officers Wives, 12 May 1960; Armed Forces Day, Altoona, PA, 20 May 1960

11 8 Speeches, speech to Institute of Radio Engineers, Ft. Wayne, Indiana, 2 June 1960; The Challenge to the U.S. Navy, National Electronic Conference & Exhibit, Chicago, IL, 10 October 1960; speech to The National Rocket Club, 24 October 1960

11 9 Speeches, 1960; The Challenge, circa 1960

11 10 Speeches, speech to Institute of Radio Engineers, Los Angeles, CA, 2 February 1961; speech to Washington Light Infantry, 22 February 1961; speech to Daughters of American Revolution, Washington, D.C., 8 March 1961; speech to American Rocket Society, Los Angeles, CA, 15 March 1961; statement before the Senate Interstate and Foreign Commerce Committee, 17 March 1961; Slide Rule Dinner, University of Detroit, 18 March 1961

11 11 Speeches, Naval Applications of Electronic Data Processing, 9 April 1961; speech before the Annual Meeting and news conference of the Aviation/Space Writers Association of North America, New York City, 3 May 1961; speech, 10 May 1961; speech to Reserve groups, NAS Atlanta, 12 May 1961; speech at Georgia Tech, Atlanta, GA, 12 May 1961; speech to Management Association, Los Angeles, CA, 16 May 1961;

11 12 Speeches, speech before the National Security Industrial Association, Washington, D.C., 24 May 1961; outline of speech to NSIA Innerspace Conference, 24 May 1961; New Frontiers of the Navy, Navy League, Washington, D.C., 1961

11 13 Speeches, statement to JCAE, 21 June 1961; The Penalty of Leadership, Great Lakes, IL, 30 June 1961; statement to House Space and Astronautics, 3 August 1961; speech to Fleet Reserve Association, New York City, 20 September 1961

11 14 Speeches, Research and Development Planning, given before the National Security Industrial Association, 18th Annual Luncheon, New York City, NY, 28 September 1961; speech in Ann Arbor, Michigan, 1 October 1961; speech before the USAF Scientific Advisory Board, Chandler, AZ, 6 November 1961; speech to NRAC, 13-14 November 1961; Impact of Missiles on Military Strategy, National War College, Washington, D.C. 21 November 1961

11 15 Speeches, draft of statement, circa 1961; speech, 1961;

brief on Oceanographic Ships for the Standing Group on Shipbuilding and Conversion, circa 1961; speech to Rotary Club, circa 1961; Science and the Sea, circa 1961

11 16 Speeches, The Challenge, Club 15, Honolulu, HI, 1962; Operational Requirements, San Francisco, CA, circa 1962; speech to Newcomb Lab, 1962

11 17 Speeches, draft NRA talk, 13 August 1963; speech at Club 15, 15 August 1963; History in Space, Naval Reserve Research Seminar, San Francisco, CA, 21 October 1963

11 18 Speeches, speech on USS SALEM, 1963; interview by Congressman Cellar, circa 1963

11 19 Speeches, Space Technology for World Navigation, circa 1963

11 20 Speeches, speech to Hilo Chamber of Commerce, 9 December 1965; statement to Secretary Wakelin, Officers of the Research Reserve, 1965

11 21 Speeches, speech 26 May 1966; Don't Lose the Bubble, July 1966; speech, Studying International Law, 25 August 1966

11 22 Speeches, speech to Advance Research Project Agency Defense Seminar, University of CA, Los Angeles, CA, August 1966; Tree of Liberty Dedication Ceremony, William Ellery Park, 29 August 1966; speech to Sons of the Revolution, Tree of Liberty Speech, 29 August 1966; NAS, Argentia, 1 September 1966; Newport Rotary Club luncheon, 20 September 1966

11 23 Speeches, speech at Nooner's Club, 26 October 1966; speech to Navy League of the U.S., San Juan, Puerto Rico, 28 October, 1966; Modern Sea Power and Free World Objectives, speech for Secretary of Navy, Navy Day 1966

11 24 Speeches, Treasures of the Sea, 196?; speech, 196?; speech to Institute of Radio Engineers, Los Angeles, CA, 2 February 196?; The Navy and Research, 196?

11 25 Speeches, The Future Navy in Relation to National Defense, 1 December 196?; speech 196?

12 1 Speeches, luncheon in Chattanooga, TN, 196?; Engineering and the Navy, San Antonio, TX, 14 April 196?

12 2 Speeches, Dartmouth College, Hanover, NH, 25 January 1967; address to staff and students, Marine Corps Command and Staff College, Quantico, VA, 27 January 1967; Columbus, OH, Navy League, 3 February 1967

12 3 Speeches, speech to De La Salle Academy Students, Newport, RI, 12 March 1967; speech to the Naval Academy Alumni Association, Boston, MA, 14 March 1967; speech to Boston Association of Members of the Naval Institute, 14 March 1967

12 4 Speeches, AFROTC, University of Arizona, Tucson, AZ, 4 April 1967; speech to Aviation/Space Writers, Washington, D.C., 7 April 1967; NWC, Wives luncheon, 2 May 1967; Greater Hartford Armed Forces Day luncheon, Hartford, CT, 16 May 1967; 19th Annual Test Pilot School Symposium luncheon, Patuxent River, MD, 20 May 1967; Rogers High School assembly, Newport, RI, 29 May 1967

12 5 Speeches, Eagle Scout Court of Honor (Troop 22), Pringle Auditorium, 7 June 1967; Malvern Preparatory School Malvern, PA, 8 June 1967; ROTC, University of

Illinois, Champaign, IL, 16 June 1967; Naval Reserve Officers' School dinner-graduation, 22 June 1967

12 6 Speeches, Change of Command, USS WASP, Boston Naval Shipyard, Boston, MA, 12 August 1967; outline for "Presentation on Antisubmarine Warfare", 21 August 1967; 189th Anniversary of the Battle of Rhode Island, Portsmouth, RI, 27 August 1967; speech to NSIA - Navy Conference, Cleveland, OH, 11 October 1967; speech to NATO Defense College, Rome, Italy, 20 October 1967

12 7 Speeches, speech to the Underwater Acoustic Symposium, Orlando, FL, 8 November 1967; speech at University of Minnesota, 18 November 1967

12 8 Speeches, speech to chaplains, 28 November 1967; speech in New York, 30 November 1967; speech to Rochester Council Annual Rededication Exercise, Rochester, New York, 7 December 1967; speech to Fletcher School of Law and Diplomacy, Tufts University, Medford, MA, 14 December 1967

12 9 Speeches, lecture of Physics, 1967; The professional Education of Military Officers, opening remarks, NWC, 1967; The Maritime Situation in the Mediterranean in the Twelfth to Fifteenth Centuries - It's Influence on the Nations and Peoples of the Times, 1967

12 10 Speeches, lecture, NWC, Luce, 1967; I Had A Dream, 1967; speech, 1967; Modern Sea Power and Free World Objectives, speech for the Secretary of the Navy, 1967

12 11 Speeches, speech at the Naval Aviation Command, Pensacola, FL, 12 January 1968; speech at Dartmouth College, Hanover, NH, 31 January 1968; speech at Fathers and Sons Annual Dinner, Malvern Prep School, Malvern, PA, 1 February 1968

12 12 Speeches, speech at Marine Corps Command and Staff College, Quantico, VA, 5 February 1968; speech on USS SOMERS, 10 February 1968; Challenge, Palm Beach Council Navy League, Palm Beach, FL, 15 March 1968; address to joint Army/Navy ROTC, Rice University, Houston, TX, 29 March 1968

12 13 Speeches, speech to New England Political Science Association, Newport, RI, 20 April 1968; speech at annual Scholar-Athlete Award Dinner, Bridgeport, CT, 24 May 1968; speech to U.S. Naval Preparatory School, Bainbridge, MD, 29 May 1968; speech to graduating class, U.S. Merchant Marine Academy, Kingsport, NY, 4 June 1968

12 14 Speeches, commencement speech to Webb Institute of Naval Architecture, Glen Cove, NY, 14 June 1968; farewell remarks, GSD, 21 June 1968; speech at Oceanology Symposium, NWC, 11 July 1968; speech, 1968; speech, 1968

12 15 Speeches, welcoming remarks, NWC, 1969

12 16 Speeches, Corporation, Technology and the People, 1971; Realities of Seapower, 1971

12 17 Speeches, America in the Complex World of the Seventies, 1972

12 18 Speeches, Social Responsibility: Corporate, Government, Individual, 1972; Realities of Seapower, 1972

12 19 Speeches, Corporation, Technology and the People, 1972; America in the Complex World of the Seventies, 1972

12 20 Speeches, The Military Industrial Complex From All Sides, National Aviation Club, Washington, D.C., 17

September 1973; Corporation, Technology and the People, Federal Science Community and the Corporation, 1973

13 1 Speeches, A Sailor's Lament, St. Louis, MO, 20 March 1974

13 2 Speeches, The Impact of Technology on Strategy, Army War College, 1 March 1976

13 3 Speeches, speech at NSIA luncheon, 18 May 1977; Impact of Technology on Strategy, 22 July 1977; speech before corporate executives of Lear Seigler, 14 September 1977

13 4 Speeches, International Business, 4 December 1978; Nuclear War, 1978

13 5 Speeches, outline of speech, Offset-Political, Technical and Economic Aspects, to be given in Australia, May 1979; The Middle East - A Perspective, 15 May 1979; speech at ADPA, Panama City, FL, 31 October 1979; International Business, 4 December 1979

13 6 Speeches, International Sales - End of An Era - Change of Course, 1979; The Impact of Technology on National Strategy, 1979

13 7 Speeches, Education and the Technological Gap, 197?

13 8 Speeches, speech, 1970?; Tactical Missiles At Sea, 197?

13 9 Speeches, The Military Industrial Complex from All Sides, 197?; speech to ESU, 197?; speech, 197?; Strategic Situations From U.S. Position, 197?

13 10 Speeches, lecture at NCC, 17 April 1980

13 11 Speeches, lecture at NCC, 8 June 1981; Nuclear War and Strategy, 31 October 1981; Modern Sea Power and Free World Objectives, 1981

13 12 Speeches, speech to Fleet Reserve Association at Atlantic Beach, 4 August 1983

13 13 Speeches, A Look at the Middle East, speech at ESU, Jacksonville, FL, 18 April 1985

13 14 Speeches, Memorial Day, 1986; National Security, 24 July 1986

13 15 Speeches, speech at China Lake, October 1987; speech, 1987

13 16 Speeches, Enlisted Man of the Year Dinner, 4 March 1988; speech of Kiwanis Club in Newport, RI, 1988; The United States and the World Around Us, 1988; National Security Meninak 88, 1988

13 17 Speeches, The World in 1989, 1989; NWC Graduation, 1989

13 18 Speeches, The Case for Nuclear Power, 198?; The Effect of Missiles on Sea Warfare, 18 May 198?

13 19 Speeches, testimony to Senate inquiry to Satellite and Missile Programs, 1957

13 20 Speeches, Interview Re: Tour as Experimental Officer, Naval Ordnance Test Station, 1944-47 and other NOTS-Related Reminiscences, 14 October 1987

13 21 Speeches, Interview of CDR Hayward, as Commanding Officer of VB-106, Operating in the Central, South and Southwest Pacific, 23 June 1944

13 22 Speeches, TV Presentation, appearance on Wide, Wide World of Television, 19 January 1958; American Newspaper Alliance, 12 July 1958; appearance with Senator Kefauver, 26 February 1959 and 6 March 1959; 30 April 1959; 23 July 1959

13 23 Speeches, TV Presentation, 1960; verbatim transcript of Chronology DE-1052 Segment, 28 April 1972

13 24 Speeches, Background materials and notes

13 25 Speeches, Background materials and notes

13	26	Speeches, Background materials and notes
13	27	Speeches, Background materials and notes
13	28	Speeches, Background materials and notes
14	1	Speeches by Admiral Parsons 9 Oct 1946 - 20 Mar 1947, Visiting Nurse Service Campaign
14	2	Speeches by Admiral Parsons 1 Apr 1947 - 8 Apr 1948, before the American Whig-Clisosophic Society, Men's Club of the Central Presbyterian Church, Annual Convention of the Edison Electric Institute, Society of the War of 1812, Navy day address
14	3	Speech by Admiral Parsons 1947, Navy Looks Forward with Research
14	4	Speech by Allen Puckett 15 Aug 1946, Talk for Cal Tech Alumni Assoc.
14	5	Speech by RADM Lonquest 5 Dec 1949, Institute of the Aeronautical Sciences, LA
14	6	Speech by Unknown 1950 ORL Speech
14	7	Speech by Thomas E. Murray 1957, Report to Joint Committee on Atomic Energy
14	8	Speech by RADM Bennett 1958, The Armed Forces, Industry, and Basic Research
14	9	Speech by Dr. York 1958, Engineering & Technological Problems of Space Ops: Scientific Potentials
14	10	Speech by Dr. Kern 1959, before Naval Research Advisory Committee
14	11	Speeches James Douglas 25 Jan 1960 - 20 Mar 1960, before the House Committee on Science & Astronautics
14	12	Speech by VADM Austin 17 May 1960 The US Navy and Forward Strategy
14	13	Speech by Joseph Clark Aug 1961 Military Research & Development Program
14	14	Speeches by ADM Burke 1961 Military Posture of the USN VADM Rickover, 29 Oct 1962, The Never Ending Challenge
14	15	Speech by Paul Nitze 19 May 1964, 46 th Annual Dinner of the American Ordnance Assoc.
14	16	Speech by CDR Frances Biadasz 13 Sep 1966, Basic Philosophical Concepts Underlying Communist Totalitarian Dictatorships
14	17	Speech by Senator Henry Jackson 18 Oct 1966, Remarks on Nuclear Test Ban Treaty Safeguards
14	18	Speeches by RADM Eccles 20 Mar 1967, Principles of Logistics, RADM Benson - 22 Mar 1967, Address to NWC
14	19	Speeches by Senator Jackson 23 May 1967, The Regulation of Conflict; Philip Reilly - 23 Oct 1967, Technical Information Transfer & Economic Growth
14	20	Speech by Mr. Sargent- 1 May 1969, before Pomona Management Club
14	21	Speech by John Chafee 8 May 1969, 50 th Annv. Of NC-4 Transatlantic Flight
15	1	Speech by W.W. Rostow 19 Jun 1970, Domestic Determinants of Foreign Policy: or the Tocqueville Oscillation
15	2	Speeches by Phyllis Schlafly 29 Jun 1972, Testimony to the Senate Foreign Relations Committee; Ambassador Johnson 8 Aug 1972, National Security Policy; John Foster 17 Apr 1972, Address
15	3	Speeches by Lemont Richardson 25 Jan 1974, Implications of the Present Energy Crisis
15	4	Speech by Senator Pell 29 May 1975, World Affairs
15	5	Speeches by Donald Rumsfeld 27 Jan 1976, Defense

		Budget; William Clements 18 May 1976, Navy Shipbuilding Program
15	6	Speech by James Stockdale 18 Feb 1977, before Connecticut Headmaster's Association
15	7	Speech by Gordon Rule 17 Nov 1977, The Rickover Navy
15	8	Speeches by VADM Stockdale 27 Mar 1978, Current Strategy Forum; Jerome Stolarow 3 Jan 1979, Navy's FFG-7 Shipbuilding Program
15	9	Speech by R.W. Cousins 9 May 1979, Navy League Convention
15	10	Speech by R. Mason, ASW Readiness; RADM Shapiro, Soviet Naval Threat
15	11	Speeches by ADM Watkins 13 Apr 1983, A New Vision, A New Hope; John Lehman, Jr., 21 Jun 1983, Nine Principles of American Maritime Power for the Future
15	12	Speeches by ADM Foley 23 Jun 1983, Current Strategy Forum; Albert Hill Fall 1983, Challenge of Scientific and Engineering Problems
15	13	Speeches by David Lewis 28 Feb 1985, Oversight and Investigations; ADM Watkins Apr 1985, Military Retirement; DR Fraser 15 Jul 1986, Address to the Competition Advocates Symposium; James Webb 16 Jun 1987, Current Strategy Forum
15	14	Speech by Bruce Murray Spring 1980, Cameras, Computers, & Communications: Exploring the Planets
15	15	Speech by Robert Frosh, Spring 1982, Robots, People and Navies
15	16	Speech by Eberhardt Rechtin, Fall 1983, The Technology of Command
15	17	Speeches by ADM Kelso, 21 Feb 1991, Posture & Fiscal Year 1992/93 Budget; General Schwarzkopf, 29 May 1991, Commencement Address to US Naval Academy; ADM Jeremiah 5 Nov 1991, Way Ahead; Robert Wood, 1993, Domestic Foundations of National Security
15	18	Speeches by Rev. Gillmett, Succeed or Fail; Navy in the 21 st Century, An Epilogue from One of the Last Ecumenical Mariners; Frank Jameson, Address; War as an Instrument of National Policy
15	19	Speech by ADM Burke, No title
15	20	Lecture by AIAA Locations 31 Mar 1981
15	21	Lecture by Thomas Tureaud 13 Jul 1993, Hydrodynamics of UUV Near Ocean Bottom
15	22	Lectures by Unknown, Briefing on the Partnership for the Development of National Engineering Resources; Unknown, Anti-Ship Missile Warfare
15	23	Lecture by Unknown, Scientists, Engineers, Technologists, Technicians for the Nation's Future
15	24	Lecture Unknown, Design of National Strategy

Series IV Writings

Box	Folder	
16	1	Forward, Cry the Rebel, unpublished manuscript
16	2	Introduction
16	3	Introduction
16	4	Chapter 1
16	5	Chapter 1
16	6	Chapter 1
16	7	Chapter 2
16	8	Chapter 2

16	9	Chapter 3
16	10	Chapter 3
16	11	Chapter 4
16	12	Chapter 4
16	13	Chapter 5
16	14	Chapter 5
16	15	Chapter 5
16	16	Chapter 6
16	17	Chapter 6
16	18	Chapter 6
16	19	Chapter 7
16	20	Chapter 7
16	21	Chapter 8
16	22	Chapter 8
16	23	Chapter 9
16	24	Chapter 9
17	1	Chapter 10
17	2	Chapter 10
17	3	Chapter 10
17	4	Chapter 11
17	5	Chapter 11
17	6	Chapter 11
17	7	Chapter 11
17	8	Chapter 12
17	9	Chapter 13
17	10	Chapter 13
17	11	Chapter 14
17	12	Notes
17	13	Notes
17	14	Notes
17	15	Notes
17	16	Outline
17	17	Background Material, papers by John Hayes
17	18	Background Material
17	19	Background Material
18	1	Diary Writing 1942-1944
18	2	Diary Writing 1946-1947
18	3	Diary Writing 1951-1962
18	4	Diary Writing 1951-1962
18	5	Autobiography
18	6	Autobiography Story 1
18	7	Autobiography Story 2
19	1	Autobiography Story 3
19	2	Autobiography Story 4
19	3	Autobiography Story 5
19	4	Autobiography Story 6
19	5	Autobiography Story 7
19	6	Autobiography Story 8
19	7	Autobiography Story 9
19	8	Autobiography Story 10
19	9	Autobiography Story 11
19	10	Autobiography Story 12
19	11	Autobiography Story 13
19	12	Autobiography Story 14
19	13	Autobiography Story 15
19	14	Autobiography Story 16
20	1	Poetry
20	2	Lost at Sea, Control Surfaces, 1930's
20	3	The Absolute Altimeter, 1930's

20 4 Patrol Plane Development, How long is a mile, 1930's
 20 5 Measurement of Aircraft Speeds, Panama, 1930's
 20 6 What Price Democracy! Airpower, 1940's
 20 7 Military Problems, 1940's
 20 8 Nuclear Power various articles on Ordnance, 1950's
 20 8A The Navy of 1960-1970
 20 9 ARMA Engineering, Tapping Military Potential, 1960's
 20 10 McNamara-Success or Failure, 1960's
 20 11 McNamara-Success or Failure, 1960's
 20 12 McNamara-Success or Failure, 1960's
 20 13 Western Europe and NATO, 1960's
 20 14 Impact of Technology on Strategy, 1970
 20 15 Impact of Technology on Strategy, 1970
 20 16 Case for a Modernized U.S. Navy, 1971
 20 17 Impact of Technology on Strategy from Proceedings, 1972
 20 18 Impact of Technology on Strategy, 1972
 20 19 Military Responsibility and Freedom, 1973
 20 20 Military Responsibility and Freedom, 1973
 21 1 At it Again, Shipbuilding-A Navy Problem, 1974
 21 2 Tactical Missiles at Sea, 1974
 21 3 International Business and the U.S., 1974
 21 4 Navy Fighter Policy, Beleaguered Navy, 1975
 21 5 Weapons Make a Warship, 1976
 21 6 Strategic Cruise Missile: What it means!, 1976
 21 7 The Shah's Navy, Strategic Cruise Missile, 1976
 21 8 High Low, 1976
 21 9 Military Retirement: What happened to Justice?, 1977
 21 10 The Silent Military, 1978
 21 11 Nuclear War: The Tactical Option, 1979
 21 12 Can the Navy Rebuild the United States Fleet?, 1970's
 21 13 The Middle East-A Perspective
 21 14 Tactical Nuclear Warfare at Sea
 21 15 The Atomic Bomb Goes to Sea, 1980's
 21 16 An Air Capable Navy, 1980's
 21 17 Competition and Weapons, 1980's
 21 18 Reorganization of the Defense Department, 1980's
 21 19 Rethinking Defense Requirements, 1990's
 21 20 National Security Organization, 1990's
 22 1 Abramson, Rudy "Heavy Seas May Await Rickover"
 22 2 Abshire, David "What is Strategy?"
 22 3 Alexander, Arthur "Decision-Making in Soviet Weapons
 Procurement", "The Significance of Divergent US-USSR
 Military Expenditure"
 22 4 Allen, William "Midnight Economist: Broadcast Essays"
 22 5 Allin Lawrence "The Naval Profession"
 22 6 Amme, Carl "Changing Concepts of Sea Power Since Mahan"
 22 7 Andrews, Marshall "Strategic" Air Plan: Dangerous
 22 8 Augustine, Norman "Augustine's Laws & Major System
 Development Programs"
 22 9 Avrit, Richard "Naval Tactics: Study of Fleet
 Performance and Factors Inhibiting Improvement"
 22 10 Capt. Aymond "Current Concepts & Philosophy of Warfare"
 22 11 Barkas, Walter "Science and Contemporary Education"
 22 12 Barrett, Jim "Aids to Navigation"
 22 13 Bismark "On Government"
 22 14 Bliss, Ray "Gradualism-Fuel of Wars"
 22 15 Bloch, Rene "NATO's Firstborn: The Atlantic", "The
 Aeronautical Industry in the Europe of Tomorrow"
 22 16 Boiloeau, O.C. "Can Strategic Deterrence Prevent a
 Nuclear War?"

22	17	Borgese, Elisabeth "The Ocean Regime"
22	18	Borklund, C.W. "Is the US Embarked on Unilateral Disarmament?"
22	19	Brooks, Harvey "Science & the Allocation of Resources"
22	20	Buchanan, Scott "So Reason Can Rule"
22	21	Bundy, William "Comments on Galbraith's Plan"
22	22	Burlington, Richard "Problem of Formulating a Problem"
22	23	Burns, Arthur, E "The Cost of National Defense"
22	24	Burns, Arthur "Lee, Ethics and Deterrence"
22	25	Burt, Richard "Improving Defense Concepts for the NATO Central Region"
22	26	Canavan, Gregory "A Few Technologies to see in the New Century"
22	27	Canfield, Eugene "Notes on Naval Ordnance of the American Civil War"
22	28	Cassady, John "First Story of Naval Air Power"
22	29	Cesaro, Richard "A Military Force Structure Research & Development Concept for Future Deterrence"
22	30	Chase, James "Ike was Right"
22	31	Cleveland, Harland "The Deterrent is the Uncertainty", "NATO"
22	32	Coffin, Robert "For Defense, Not Just A Buzz Word"
22	33	Cordesman, Anthony "How Much Is Too Much?"
22	34	Crews, Ed "Proposal for a biography on VADM Hayward"
22	35	Cuneo, Ernest "Duel by Powder Keg in the Middle East", "The Dominoes Fall", "From Suez to Singapore", "The US Pueblo and Hot Pursuit", "The Main Objective: Breaking US Will to Fight", "Ethics Depends Largely on Whose OX is Gored", "The Med", "Civilian Control of Military Indivisible form a Free State?", "Israeli Army Frightens Russia"
23	1	Davids, L. Robert "There was not always a CNO"
23	2	Davis, D.C. "Narrative report of night bombing attack on Wake Island"
23	3	Davis, Vincent "Politics of technological innovation"
23	4	Deitchman, Seymour J. "Designing the Fleet and its Air Arm"
23	5	Demisch, Wolfgang H. "The Price of Arms"
23	6	Donnelly, Russell J. "Heritage of Niels Bohr"
23	7	Doughton, Jr. Richard "Current status of the Development of Thermenol"
23	8	Drake, Hudson B. "Major DOD procurements at war with reality"
23	9	Drucker, Peter "Savings of Chairman Peter"
23	10	Dunlap, Jeff "Panhandle's Fair Wind City"
23	11	Eccles, Henry E "Lebanon Commentary 1982-1984"
23	12	Essex, Richard "Naval air superiority to land based power concealed by USAF"
23	13	Fallows, James "America's High-Tech Weaponry"
23	14	Feldman, George J "Where do we stand in the Space Race?"
23	15	Ferreri, Emilio "If war comes to the Mediterranean"
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26	23	The Soviet Interest in Sea Control
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26	26	Changes in Naval Warfare

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27	14	Military Papers 2 Jan 1952 - 22 Dec 1952
27	15	Military Papers 1 Jan 1953 - 8 Jul 1953
27	16	Military Papers 17 Jul 1953 - 29 Jan 1954
27	17	Military Papers 29 Apr 1954 - 9 Dec 1954
27	18	Military Papers 26 Jan 1955 - 27 Jul 1955
27	19	Military Papers 10 Aug 1955 - 17 Oct 1955
27	20	Military Papers 21 Oct 1955 - 30 Dec 1955
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27	22	Military Papers 9 Mar 1956 - 21 Nov 1956
27	23	Military Papers 2 Jan 1957 - 31 May 1957
27	24	Military Papers 3 Jun 1957 - 30 Aug 1957
27	25	Military Papers 9 Sep 1957 - 30 Dec 1957
27	26	Military Papers 6 Jan 1958 - 27 Mar 1958
27	27	Military Papers 3 Apr 1958 - 22 May 1958
27	28	Military Papers 2 Jun 1958 - 26 May 1958
27	29	Military Papers 9 Sep 1958 - 30 Oct 1958
27	20	Military Papers 10 Nov 1958 - 23 Dec 1958
28	1	Military Papers 5 Jan 1959 - 25 Feb 1959
28	2	Military Papers 4 Mar 1959 - 1 Apr 1959
28	3	Military Papers 7 Apr 1959 - 30 Apr 1959
28	4	Military Papers 1 May 1959 - 26 Jun 1959
28	5	Military Papers 1 Jul 1959 - 31 Aug 1959
28	6	Military Papers 14 Sep 1959 - 26 Oct 1959
28	7	Military Papers 6 Nov 1959 - 11 Dec 1959
28	8	Military Papers 8 Jan 1960 - 19 Feb 1960
28	9	Military Papers 4 Mar 1960 - 27 Apr 1960
28	10	Military Papers 10 May 1960 - 14 Jun 1960
28	11	Military Papers 5 Jul 1960 - 29 Aug 1960
28	12	Military Papers 7 Sep 1960 - 31 Oct 1960
28	13	Military Papers 2 Nov 1960 - 20 Dec 1960
28	14	Military Papers 23 Jan 1962 - 27 May 1963
28	15	Military Papers 3 Jun 1963 - 14 Jan 1966
28	16	Military Papers 24 Mar 1966 - 21 Feb 1967
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29	13	Airplane Engines
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29	15	American Defense Preparedness Association 1980
29	16	AIAA
29	17	AIAA 1977 Technical Activities Information Manual

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29	19	AIAA Finance Committee 1979
30	1	AIAA Finance Meetings
30	2	AIAA Financial Info 1973-76
30	3	AIAA Information 1980
30	4	AIAA Annual Meeting 1979
30	5	AIAA 1983
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30	9	Atomic Energy
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30	15	Babcock & Wilcox 1980 Nuclear topics
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31	2	Babcock & Wilcox Background Material
31	3	Babcock & Wilcox Background and memos
31	4	Babcock & Wilcox Expenses
31	5	Babcock & Wilcox Discussion areas for Feb Meeting 1978
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31	8	Behre Dulbear & Co Brochure
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32	7	CDSL, Inc. 1977 Education Plan
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33	4	CDSL, Inc. 1978-79 Bylaws
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35	2	CDSL, Inc. 1987-1989 Letter to ADM Demars
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35	7	Cockpit Illumination in Airplanes
35	8	Cornell Peace Studies Program April 1972
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35	10	CNO Board 4/83
35	11	CNO Sea Based Air Master Study Plan
35	12	Court Cases
35	13	Cruiser Missiles 1974-7
35	14	Cuban Crisis 1963
35	15	Current Strategy Forum 1978
35	16	Current Strategy Forum 1979
35	17	Current Strategy Forum 1992-3
36	1	Defense Industry Letters 1978 various topics
36	2	Defense Management Systems Course July 1966
36	3	Defense Policy 1974
36	4	DOD Reorganization Act of 1986
36	5	Dresser Industries, Inc.
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36	7	DSP Incorporated Statements and Reports
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36	9	Ephemeris of Satellite 1957 Alpha 2
36	10	Euclid Partners
36	11	Eurospace Council 1970-73
36	12	Executive Service Corps
36	13	Flag Officer Lists
36	14	Fleet Reserve Association Southeast Regional Convention
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37	10	General Dynamics 1973-1977 Letters and Memos

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37	12	General Dynamics 1974 Miscellaneous
37	13	General Dynamics 1974-5
37	14	General Dynamics 1976 Reports
37	15	General Dynamics 1976-77 Miscellaneous
38	1	General Dynamics 1973-77 Miscellaneous
38	2	General Dynamics 1974 Notes, Memos
38	3	General Dynamics 1976 Miscellaneous
38	4	General Dynamics 1976 Memos, Background Materials
38	5	General Dynamics 1977 Miscellaneous
38	6	General Dynamics 1977 Reports
38	7	General Dynamics 1978 Miscellaneous
38	8	General Dynamics 1978 Royal Saudi Naval Forces Ops and Maintenance Augmentation Program
38	9	General Dynamics 1978 Reports
38	10	General Dynamics 1979 Reports
38	11	General Dynamics 1979 Miscellaneous
38	12	General Dynamics 1980 Notes and Miscellaneous
38	13	General Dynamics 1980 Miscellaneous
38	14	General Dynamics 1980 Letters on Technical Subjects
38	15	General Dynamics 1981 Reports
39	1	General Dynamics 1981 Technical Reports
39	2	General Dynamics 1981 Miscellaneous
39	3	General Dynamics 1982 Position Locating System
39	4	General Dynamics 1982 Reports
39	5	General Dynamics 1983 Corporate Study Group
39	6	General Dynamics 1983 Reports
39	7	General Dynamics 1983 Miscellaneous
39	8	General Dynamics Contracts
39	9	General Dynamics 1984 Miscellaneous
39	10	General Dynamics 1984 Miscellaneous
39	11	General Dynamics 1984 Reports
39	12	General Dynamics 1985 Reports
40	1	General Dynamics 1970 Miscellaneous
40	2	General Dynamics FY93 Defense Budget Info
40	3	General Dynamics 1974 Miscellaneous
40	4	General Dynamics 1975 Miscellaneous
40	5	General Dynamics 1981 Miscellaneous
40	6	General Dynamics 1985 Miscellaneous
40	7	General Dynamics 1985-86
40	8	General Dynamics 1986 Reports
40	9	General Dynamics F-16 Advisory for the Navy
40	10	General Dynamics Cruise Missiles
40	11	General Signal Corporation
40	12	German Signal Corps - Letters
40	13	German Submarine Design Post WWII
40	14	Gould Inc. Training for Iranian Submarine Force
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41	2	Gould Inc. Advanced Lightweight Torpedo 1976-77
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42	4	Gould Inc. Reports 1980

42 5 Gould Inc. Towed Array Sonars
42 6 Gould Inc. Correspondence 1983
42 7 The Green Bowlers 1946
42 8 The Greenwich Country Club
42 9 Guided Missiles (encyclopedia articles)
42 10 Harvard Committee - Near Eastern Languages and
Civilizations
42 11 Harvard Semitic Museum and CTTEE 1974-76
42 12 Harvard Visiting Committee
43 1 Henry Kissinger Profile of Kissinger
43 2 Hertz Foundation Reports 1971
43 3 Hertz Foundation Reports 1973
43 4 Hertz Foundation Reports 1973
43 5 Hertz Foundation Reports 1976-78
43 6 Hertz Foundation Reports 1987
43 7 Hertz Foundation Reports 1978
43 8 Hertz Foundation Reports 1979
43 9 Hertz Foundation Reports 1979-1980
43 10 Hertz Foundation Financial 1981
43 11 Hertz Foundation Reports 1981
44 1 Hertz Foundation Reports 1981
44 2 Hoover Institution Letters
44 3 Igloo Tests 1947
44 4 Inclined Axis Gyro Vertical for Correction of Turn
Error - Technical Report 1941
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44 6 Lasers 1961-62
44 7 Lawrence Livermore Laboratory 1976-79
44 8 Lawrence Livermore Laboratory 1980
44 9 Lear Siegler, Inc. Reports
44 10 Lear Siegler, Inc. Company Brochure
44 11 Lear Siegler, Inc. Reports 1982
45 1 Lear Siegler, Inc. Reports 1983
45 2 Lear Siegler, Inc. Reports 1984
45 3 Lear Siegler, Inc. Reports 1985
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45 5 Lear Siegler, Inc. Invoices 1986-87
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45 10 McNamara: Space Directive March 1961
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45 14 National Academy of Science - Charles H Davis Lectures
45 15 National Defense Authorization Act 1994
45 16 National Fund for Minority Engineering Students
46 1 National Policy Issues 1959-1961
46 2 National Security Industrial Assoc. Security Info.
46 3 NATO Defense College
46 4 Naval Academy Foreign Affairs Conference April 1971
46 5 Naval Aircraft Factory - Sperry Automatic Pilot
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46 7 Naval Command System Automation
46 8 Naval Electronics Laboratory Center 1976
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46 10 Naval Ordnance Test Station, Inyokern, CA
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46	12	Naval Review Article 1967
46	13	Naval Research Advisory Committee Memos
46	14	Naval Research Advisory Committee Memos
47	1	Naval Research Advisory Committee Presentations
47	2	Naval Research Advisory Committee Memos 1971-74
47	3	Naval Research Advisory Committee Memos 1976
47	4	Naval Research Advisory Committee Memos 1976
47	5	Naval Research Advisory Committee Memos 1976-77
47	6	Naval Research Laboratory 1969 Annual Report
47	7	Naval Undersea Systems Center - Biographies
47	8	Naval Undersea Warfare Museum Foundation Memos
47	9	Naval Undersea Warfare Museum Foundation Memos
47	10	Naval Undersea Warfare Museum Foundation Memos 1979
47	11	Naval Undersea Warfare Museum Foundation Memos 1985
48	1	NWC Advanced Correspondence Course in International Law 1937
48	2	Naval War College Center - GWM
48	3	NWC Correspondence Course in Strategy and Tactics
48	4	NWC Directory of Current Strategy Forum 1977
48	5	NWC War Games 1981-1982
48	6	NWC War Gaming August 1984
48	7	NWC Foundation 1973 Reports
48	8	NWC Foundation 1975 Reports
48	9	NWC Foundation 1975 Reports
48	10	NWC Foundation 1978 Reports
48	11	NWC Foundation 1978-1980 Reports
48	12	NWC Foundation 1981 Reports
48	13	NWC Foundation 1985 Reports
49	1	NWC Foundation 1987 Reports
49	2	NWC Foundation 1992-94 Reports
49	3	NWC Foundation 1993 Reports
49	4	NWC Foundation Trustee Meeting 12 Apr 1977
49	5	NWC Foundation Trustee Meeting 29 Jun 1977
49	6	NWC Foundation Trustee Meeting 29 Jun 1977
49	7	NWC Foundation Trustee Meeting 9 Nov 1977
49	8	NWC Foundation Trustee Meeting 29 Mar 1978
49	9	NWC Foundation Trustee Meeting 27 Jun 1978
49	10	NWC Foundation Trustee Meeting 6 Apr 1981
49	11	NWC Foundation Trustee Meeting 6 Apr 1981
49	12	Naval War College Foundation Reports 1975-1978
49	13	Naval War College Foundation Reports 1976
49	14	Naval War College Foundation Reports 1977
49	15	NWC Professional Ethics Curriculum Guide
49	16	NRAC-Technology Balance Panel USA vs. USSR 1980
49	17	NSIA ASWC Surface Ship Subcommittee Oct 1979
49	18	NSIAD Issue Area Plans 1985-1988
49	19	Nuclear Balance in Europe
49	20	Nuclear Physics Course Work
49	21	Nuclear Policy
49	22	Nuclear Power/Reactors
49	23	Nucleonics September 1961
50	1	Ocean Technology Division Review 24 Feb 1969
50	2	Office of Naval Research - Minutes
50	3	Offset - Australian Speech (background Materials)
50	4	Oil Crisis 1981
50	5	Oppenheimer, J. Robert, Article
50	6	Optical Instruments
50	7	Passport - Guide to Carrier Protocol
50	8	Planning for General Forces and Strategy
50	9	Polaris Missile - Fact Sheet 1966

50	10	Proto-Power Corporation HTGR Technology for Naval Nuclear Application	
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50	12	Radio and Electricity (notes, papers, miscellaneous)	
50	13	Remote Compasses	
50	14	Recommendation Committee on Selection Boards 1967	
50	15	SALT II 1979	
51	1	Salve Regina 1976-77 Reports	
51	2	Salve Regina Financial Statements 1976-77	
51	3	Salve Regina Board of Trustees 1976	
51	4	Salve Regina Board of Trustees 10 Dec 1977	
51	5	Salve Regina Board of Trustees 1979	
51	6	Salve Regina Board of Trustees 1976-81	
51	7	Salve Regina Board of Trustees 1981	
52	1	Salve Regina Board 1979-80	
52	2	Salve Regina 1980 Reports	
52	3	Salve Regina 1981 Reports	
52	4	Salve Regina Board of Trustees Audit and Notes	
52	5	Salve Regina Affairs	
52	6	Sea Power 1977	
52	7	Science and Astronautics 1965	
52	8	Seaport '76 Board of Directors	
52	9	SEC vs. Charles W. Steadman	
52	10	Secret City of China Lake	
52	11	Security Assistance Program 1976	
52	12	Shipbuilding Procurement and Management	
52	13	Shock Wave Parameters from Spherical HBX/TNT charges under water (NAVORD report 103-48)1946	
52	14	Shroud of Turin	
52	15	Shroud of Turin/St Peter's Tomb	
52	16	Southwest Research Institute	
52	17	Soviet Naval Forces	
53	1	Space 1958-1965	
53	2	Space 1959-1975	
53	3	Space Policy 1958-1961	
53	4	Space Solid Propellants	
53	5	Spectrum of Conflict Journal, Stanford Research Institute 1960-1970	
53	6	Star Navigation, Bubble, Sextants	
53	7	Steadman Funds 1977 Reports	
53	8	Steadman Funds 1978 Reports	
53	9	Steadman Funds 1978 Reports	
54	1	Steadman Funds Board Meetings 1979	
54	2	Steadman Funds 1980 Reports	
54	3	Steadman Funds 1981 Reports	
54	4	Steadman Funds 1985 Reports	
54	5	Steadman Funds Reports	
54	6	Strategic Naval Balance 1968	
54	7	Strategic Offense Force Study	
54	8	Strategic Papers 1974-1978	
54	9	Submarine/Surface Ships Tactics	
54	10	Submarine Electronics Systems Management and Hardware Integration Plan June 1970	
54	11	Summary Report - JS Strategic Bombing Survey Jul 1946	1
54	12	TAA, Inc. 1971-1972 Reports	
54	13	TAA, Inc. Technical Reports 1972	
54	14	TAA, Inc. Reports 1972-73	
54	15	TAA, Inc. Reports 1972-73	
54	16	TAA, Inc. Reports 1973	

54	17	TAA, Inc. 1973-1975 Memos & Correspondence
55	1	TAA, Inc. Technical Reports & Correspondence 1974
55	2	TAA, Inc. Reports 1974
55	3	TAA, Inc. Reports 1974
55	4	TAA, Inc. Letters, Technical Reports, Financial 1974
55	5	TAA, Inc. 1976-77 Reports
55	6	TAA, Inc. Memos, Correspondence, Reports 1978-79
55	7	TAA, Inc. Reports 1981
55	8	Tailhook Reunion 1985
55	9	Techplan Corporation
55	10	The Newport Institute: "The Great Nuclear Debate" 1981
55	11	Thermoelectricity Status Report
55	12	Treatment of Surfaces - Cartwright and Turner Process - Technical Report 1940
55	13	University of California, Los Angeles
55	14	UCLA Job Responsibilities
55	15	USCG Research Advisory Committee 1975
55	16	USCG Research Advisory Committee 1975 Memos/Correspondence
56	1	USCG Research Advisory Committee Reports 1976
56	2	USCG Research Advisory Committee Reports 1976
56	3	USCG Research Advisory Committee Correspondence/Memo 1975-1977
56	4	USCG Research Advisory Committee Reports 1977
56	5	USCG Research Advisory Committee Reports 1977
56	6	USCG Research Advisory Committee Reports 1977
56	7	USCG Research Advisory Committee Reports 1977
56	8	USCG Research Advisory Committee Reports 1977-78
56	9	USCG Science Advisory Committee Reports
56	10	USCG Science Advisory Committee Reports
57	1	US Civil Service Commission 1973
57	2	US Civil Service Commission Executive Seminar Center September 1968
57	3	US Civil Service Commission Executive Seminar Center September 1970
57	4	US Naval Academy Alumni Association, Annual Report 1978
57	5	US Naval Force Alternatives
57	6	US Naval Ordnance Test Station, China Lake 1966
57	7	USS CONSTITUTION
57	8	USS ENTERPRISE CC DN 2
57	9	USS FRANKLIN D. ROOSEVELT (CVA-42)
57	10	USS PHOENIX 1938-40
57	11	USS POINT CRUZ
57	12	USSR Data 1961
57	13	UNIVAC Technical Reports
57	14	UNIVAC Technical Reports 1973-77
57	15	UNIVAC Expense Reports 1975-77
57	16	UNIVAC Technical Reports/Letters 1976
57	17	UNIVAC Reports 1977
57	18	UNIVAC Technical Report 1977
58	1	UNIVAC 1977 Maritime Patrol System for the Republic of China
58	2	UNIVAC Reports 1977-79
58	3	UNIVAC Reports 1981
58	4	UNIVAC Invoices 1981
58	5	UNIVAC Reports 1982
58	6	VB/VPB-106 50 th Anniversary Reunion 1993
58	7	VC-5 Composite Squadron Five 1949
58	8	VC-5 Reunion
58	9	Venture Capital Fund 1984-86

58	10	Vietnam Statistical Data 1966
58	11	WWII Price, III Papers
58	12	West Point Senior Conference 1982
58	13	World Trade Club
58	14	World Trading Corporation
58	15	Yardley Corporation 1984 Reports
58	16	Yardley Corporation 1985 Reports
58	17	Yardley Corporation 1985 Reports
58	18	Yardley Corporation 1985 Reports

Series VII Photographs of Naval Career

Box	Folder	
59	1	Seventh Fleet ADM Clark comes aboard to visit operation platform and Indians 1953
59	2	General Sengdr & Gur boxing with ADM Hayward, Senator Knowland in helo and in conference w/ADM Olson & Clark
59	3	Gur Boxing-Indian Army General, 6000 Indian troops, Operation Cuella, Adm Clark, Olson, Hayward
59	4	USS LANGLEY, VS-1, HI, ADM Hayward, Parish, Hospers
59	5	ADM Hayward's crew VB-106, Vogel Sang, copilot in Aussie hat killed in WW II
59	6	Views of Wake Island, Kapingimaranga, in South Pacific
59	7	Meeting in Paris at sidewalk café on ASW aircraft 1961
59	8	Passengers on USS MIDWAY...on left Hayward, Symington, Johnson, Bradley, Rowberger 1949
59	9	Solomon Islands: Natives and Pig roasting 1942-43
59	10	Mawnakea, HI End of Jap Betty VB-106
59	11	Norris Bradbury, Head of Los Alamos 1944
59	12	A shot-up American plane returns to Guadalcanal 1943
59	13	ADM Hayward in camp on Munda in Solomon. W/copilot Phaon Kiger after trans-Atlantic flight to Pt Lyawteg '43
59	14	Exec Bales and Hayward at Guadalcanal..Bales killed in war 1943
59	15	Captain Macelroy & Hayward at Guadalcanal 1943
59	16	DR Ellis w/CDR Richmond, Captain Burroughs at Naval Ordnance Test station CA watching rocket testing 1944
59	17	Testing spherio warhead on Tiny Tim 11.75" solid rocket 1944
59	18	Tiny Tim 11.75" atomic rocket on fuse launcher for fuse test in Inyokern CA 1944
59	19	Relief party at Inyokern for Captain Burroughs. Pictured are Hayward, Lawritzen, Fowler, Ellis, Richmond
59	20	Meeting with DR Fowler & US Army on solid propellant Rocket 1945
59	21	Bikini atoll bomb, July 1946
59	22	ADM Hayward first cat on Guadalcanal with co-pilot Gelsaug and crew chief Moe. Later killed in action
59	23	Unidentified
59	24	Kapinga air shots VB-106 Dec 1943
59	25	Baker Day bomb blast 1946
59	26	Japanese barge bombing Dec 1943
59	27	WWII Bombing shots
59	28	Radiation victims at Nagasaki 1945
59	29	Hiroshima 1945
59	30	Sinking of USS SARATOGA
59	31	China Lake/NOTIS planes flown by Hayward 1946
59	32	ADM Hayward in Tawara 1943
59	33	AJ-1 Vigilante christening in Columbus OH, May 1958

59 34 Chick's airplane and crew WWII
59 35 CDR Hayward reads his orders at VC-5 September 1948
59 36 USS POINT CRUZ 1954
59 37 USS POINT CRUZ cruise May 1953-Aug 1953
59 38 USS FRANKLIN D. ROOSEVELT July 1956
59 39 Teller Party 1957
59 40 Captain Hayward & Harry Moore Aug 1955
59 41 Greeting Apollo Soncek at Albuquerque
59 42 ADM Hayward take off from USS MIDWAY
59 43 Little boy flight by Captain Hayward
59 44 P2B Neptune take off from USS MIDWAY 1949
59 45 1st take off from USS CORAL SEA with Dummy atomic bomb
59 46 1st landing of heavy attack aircraft on Coral Sea
59 47 Loading zone at Harvey Field 1944
59 48 CDR Hayward at Moffett Field Sep 1948
60 1 Naval War College graduation when ADM Hayward's
sculpture was presented by Felix de Weldon. Talking
with ADM Gayler (CINCPAC)
60 2 Prince of Monaco, Grace Kelly on USS INDEPENDENCE 1961
60 3 Captain Aurand, ADM Hayward, Captain Aurand in charge
of ASW group pacific. Later became VADM 1963
60 4 Movies on Independence, picture of flag cabin, picture
of chief of staff Harry Cook, ADM Hayward and Flag LT
Jones in CarDiv2 Aug 1962
60 5 Magnavox yacht, America's Cup race Newport RI 1967
60 6 ADM & Mrs. Moorer at NUIC Reception, ADM Weahley, ADM
Moorer and ADM Hayward 1966
60 7 ADM & Mrs. Hayward at Knights of Malta in Rome Italy
1965
60 8 Garden Party at NCC, Chris Caragianis President Navy
League
60 9 Newport, RI Fleet Reserve Assoc. Fred Snyder
60 10 Pendleton Roundup
60 11 Inducting to Global Strategy Forum 1967
60 12 Global Strategy Forum, NWC ADM Hayward speech 1967
60 13 Global Strategy Forum Diner
60 14 Melville School, Artillery Co. 1967
60 15 Cardinal Spellman at Arizona Memorial, Christmas 1965
60 16 Japanese visitors at ADM Sharpe's CINPAC in HI 1963
60 17 King Constantine of Greece and Queen Anne Marie,
Quonset PT RI 1967
60 18 NAS Barber's Point 1963
60 19 President of Raytheon, ADM Hayward, Captain Henry,
Frank Ginn
60 20 France - Maral Desseaur (made aircraft) ADM Bloch, Fr
navy wine club
60 21 ADM McDonald (COMSIXTHFLEET) on USS INDEPENDENCE
welcoming Prince Rainier
60 22 Global Strategy Forum 1966
60 23 USS ENTERPRISE 1963
60 24 Quarters AA NWC
60 25 USS INDEPENDENCE 1962
60 26 USS INDEPENDENCE, Italy May 1962
60 27 USS ENTERPRISE, AEC visiting ADM Rickover Dec 1962
60 28 General Richard Hayward (brother), ADM Hayward,
Wegkley, Hartel, Burke & ASW committee
60 29 Long Island, NY at Grumman Aircraft Corp 1956-1962
60 30 Sailor of the year award with head of Navy League, NWC
60 31 Joe & Carrie Moorer & Bobbie & Jed Stardevant
60 32 Auckland, NZ Maori Choir, Captain NZ Frigate 1964

60 33 Dinner in Tokyo, Japan Aug 1964
60 34 Happon Sukiya Part in Tokyo Japan Nov 1965
61 1 Rick Walker North American AUOMFOR in Cuba Nov 1950
61 2 ADM Hayward at standard missile meeting 1961
61 3 ADM's Reich, Pinney, Hayward at ASWCTTEE, Kew West FL
61 4 Visit to 6th Fleet: Ed Teller, Reichel, Herb Yourk,
Morganstern, Captain Williamson, ADM Brown 1958
61 5 ADM Hayward, Athens, Greece 14 Mar 1963
61 6 USS INDEPENDENCE, General Ruffini & Mr. Luigi Visil
61 7 Cleveland 27 Oct 1960
61 8 Luncheon in HI 24 Jan 1964
61 9 Quonset Point - Visit of King Constantine and Queen
Anne-Marie of Greece 9 Sep 1967
61 10 Paul Nitze, ADM Moorer, ADM Hayward
61 11 Navy Day at NWC 1968
61 12 America's Cup Newport RI, March 1967
61 13 ADM Hayward, March 1968
61 14 ADM Burke, Captain Breem, ADM Strad, General Wheeler,
ADM McDonald
61 15 NWC, Sep 1968
61 16 Elks Club, Bremertown, WA 1964
61 17 Mockup of Ground Support Air Plance USMC 1961
61 18 Captain Aurand, ADM's Hayward, David, HI 1963
61 19 Essex Class AC CVS HI Yorktown
61 20 ADM Burke & Captain Hayward (CC, FDR) 1956
61 21 SECNAV Paul Nitze and ADM Hayward
61 22 USS INDEPENDENCE in the MED CARDIV 2
61 23 ADM Hayward (Co, 3rd Flt) w/ADM Moorer (CINCPACFLT)
61 24 ADM Hayward, Marshall of Pendleton roundup, Pendleton,
OR (head of plans and atomic warfare) 1966
61 25 ADM Hayward, Riviera France (CARDIV 2)
61 26 USS INDEPENDENCE, task force 60 in the Med 1962
61 27 WWC Presentation of Print
61 28 Senator John Chafee, Means Johnson, ADM Hayward at NWC
1966
61 29 ADM Hayward presented with Doctor of Laws degree by
Providence College
61 30 ADM Hayward and Pope Pius XII
61 31 ADM Hayward & Grace Kelly in Cannes, France (TF60)
62 1 ADM Hayward on Ruggers Yacht, Newport, RI Aug 76
62 2 VB-106 Reunion, Norfolk, VA 1976
62 3 Golf tournament foursome in Puerto Rico 1976
62 4 ADM Hayward and friends from HI 1975
62 5 Taking off in Japanese PSS Seaplane 1974
62 6 ADM Hayward at home of Dare Rochlin 1974
62 7 Captain Withers, ADM's Hayward, Black (French Navy),
Newport RI 1974
62 8 ADM's Hayward, Griffiths & head of GTE at strategy
forum, Newport, RI NWC 1974
62 9 Party in Japan
62 10 ADM Hayward, Pete Aldrick & DR Dan Frazier at Draper
Lab 1974
62 11 ADM Hayward & ADM McCain at Camp Smith HI 1973
62 12 Bombing squadron 106 Reunion Hampton Roads VA 1972
62 13 ADM Tom Hayward & wife w/VADM John Hayward, Groton CT,
VADM Hayward w/Jim Boggs, VP General Dynamics
62 14 VB 106 Reunion, Pensacola FL Oct 1982
62 15 Speech at Panama City FL to Air Force concerning Navy
COAS system, pictured with Captain Jackson 1982
62 16 Naval War College Foundation Meeting 1980

62	17	Point Cruz Reunion 1992
62	18	ADM Hayward in front of home in Newport RI Aug 1990
62	19	Touring Newport Harbor in barge Feb 1984
62	20	NWC Foundation meeting
62	21	ADM Hayward & Mrs. Kurth of NWC quarters reception
62	22	Sub launching at Groton CT, ADM's Hayward, Rickover, Irvin and guest of Colonel Crown
62	23	Press interview in New York for General Dynamics
62	24	General Dynamics International golf tournament, St. Louis MO
62	25	USS POINT CRUZ Reunion
62	26	Babcock & Wilcox reactor loading, VA factory 1970
62	27	ADM Hayward, Heinemand & head of Douglas at plant in Long Beach CA 1969
62	28	Farubora air show, meeting in London Aug 10, 1970
62	29	Unidentified
62	30	Retired flag officer breakfast NAS JAX Dec 1991
62	31	SecDef hosted swearing in ceremony, Dr Fraser, DUSD for Acquisition
62	32	Charles Stark Draper Labs Sep 1974
62	33	VC-5 Reunion 1989
62	34	Knights of Malta at grave of ADM deTernay in Trinity Cemetery 1980
62	35	Us ILL Aug 1976
62	36	NSIA speech Washington DC May 1977
62	37	Award ceremony in comdt's office Aug 1979
62	38	Swearing in ceremony of ADM Hayward to Coast Guard Research Advisory Committee 1975
62	39	Salve Regina University
62	40	General Dynamics Apr 1969
62	41	General Dynamics Dec 1971
62	42	ADM Hayward posing for statue
62	43	NWC Foundations
62	44	NC-4 50 th anniversary May 1969
62	45	Advisory Board 1973
62	46	NWC Global Strategy Discussions
62	47	NSIA
63	1	B-25 with Tiny Tim 11.75" atomic rocket
63	2	Hayward landing 1 st AJ at Port Lyawtey Africa 1951
63	3	Aegis Cruiser 1992
63	4	Ultra Light Built by Ryan, Hayward flew this
63	5	PSS Kawanishi 4 engine reoplane
63	6	PZV-3C configured to carry "little boy" atomic bomb
63	7	Proposed design of ASW aircraft by Franco 1959
63	8	SOG1 shipboard plane USS PHOENIX 1939
63	9	Aircraft operation from USS PHOENIX 1939
63	10	VP-2, PM-2 operational Coco Solo Panama 1935
63	11	Machine gun training onboard USS PHOENIX 1939
63	12	HMS Rodney and sister ship HMS Nelson 1939
63	13	Close up of GRAF SPEE 1940
63	14	German Cruiser GRAF SPEE 1940
63	15	AJ-1 VC-5 atomic bomb outfit 1940
63	16	CVA-42 FDR 1950 Deck loaded
63	17	NATO launch - USS MIDWAY, USS BARRY plane guard 1949
63	18	AJ's over San Francisco
63	19	AJ on deck USS CORAL SEA
63	20	PSS at Usaka Japan 1967
63	21	Store ship, AU carrier on horizon
63	22	Ship Ops USS PHOENIX, self cast recovery 1939
63	23	Launching of USS ARCHERFISH 1971

63	24	JDS Oyashio Jap sub
63	25	Italian Training Ship July 1962
63	26	USS LITTLE ROCK, Palma Spain, med cruise 1964-65
63	27	USS BRONSON showing damage in collision with Point Cruz during refueling Aug 1953
63	28	USS FDR 1956
63	29	HMS Warspite Aug 1937
63	30	USS ENTERPIRSE Oct 1976
63	31	US scout cruisers 4-13
63	32	USS SHENANDOAH 1925
63	33	General Dynamics Prototype pictures
63	34	Ryan prototype pictures
63	35	A3J
63	36	P2V-2 Neptune Aircraft
63	37	HU2X-1 Helo onboard USS ENTERPIRSE
63	38	USS INDEPENDENCE
63	39	McDonnell Douglas Planes
63	40	Space Shuttle
63	41	Unidentified
63	42	Unidentified
63	43	A-4
63	44	U-2
63	45	F-111
63	46	Unidentified
64	1	ADM Hayward's sister Elinor & husband Colonel Pollock USMC hero at Iwo Jima
64	2	Promotion photos for Captain Madey (sisters cousin)
64	3	Atlantic City with sister-in-law Betty, Hayward at ceremony honoring brother General Hayward, held on Trump yacht.
64	4	Passport photos
64	5	Richard Hayward's funeral, brother of ADM Hayward
64	6	Family at wedding of grandson Charles Schulz L-R Shelley, Marion, Vicky, self, Leila, John Jr, Jennifer
64	7	Navy Portraits 06 Aviator Greens
64	8	Navy Portraits
64	9	Navy Portraits Admiral
64	10	Navy Portraits
64	11	Oil painting of VADM Hayward 1967
64	12	Portraits for General Dynamics
64	13	Mrs. Hayward
64	14	ADM & Mrs. Hayward
64	15	Childhood shots of ADM Hayward
64	16	Early Navy days of the ADM
64	17	Miscellaneous family photos of the ADM
65	1	ADM giving speeches at NWC
65	2	Unidentified
65	3	Unisys speech
65	4	Silver Wings award dinner
65	5	ADM winner at Bethesda golf tournament
65	6	Congratulating a winner of a prize
65	7	ADM Luker (CARDIV)
65	8	ADM Hayward's hunting group in Sasebo Japan
65	9	Fishing for ayw in Sasebo Japan 1953
65	10	Jake Swirble, CEO Gruman Aircraft 1957
65	11	Dan Kepnan baby on USS POINT CRUZ, Incheon Korea 1953
65	12	Hayward's hula troop, Ford Island HI 1964
65	13	Squadron Logo for VP2 Panama 1935
65	14	General Bradley onboard USS MIDWAY 1947
65	15	IAS speech in LA, subj. atomic weapons 1947

65	16	RADM Welch, President NWC 1980
65	17	Results from earthquake, Long Beach CA 10Mar33
65	18	ADM Byrd's Antarctic expedition 1920-30
65	19	Hunting trip with ADM's Hayward, Briscoe, Clark
65	20	Advising board, ADM Parsons Nov 1953
65	21	HSL 32
65	22	RADM Attary 1973
65	23	President Ronald Reagan
65	24	CDR J.P. Kelly 1981
65	25	NWC Foundation trustees June 1988
65	26	Newcomb Laboratories 1961
65	27	Photo of Jupiter taken by Voyager 1 1979
65	28	US Naval Observatory Arizona
65	29	B-52's counter measures at close range
65	30	Draper Lab
65	31	Miscellaneous shots 1920's
65	32	Miscellaneous negatives and slides
65	33	Unidentified
65	34	Unidentified
65	35	Unidentified
65	36	Unidentified
65	37	Unidentified
65	38	Unidentified
65	39	Unidentified
65	40	Unidentified
65	41	Unidentified
65	42	Unidentified

Series VIII Miscellany, Reports, Papers, Certificates, Maps, and Cards

Box	Folder	
66	1	Visas, Passports
66	1	Certificates
66	3	Rosters, Membership Lists, Pointe Vedra Golf Association, The Early Pioneer Naval Aviators Association
66	4	Rosters, Membership Lists, American Ordnance Association
66	5	Rosters, Membership Lists, Naval Command College Alumni, Freedoms Foundation at Valley Forge
66	6	Rosters, Membership Lists, VC-5, Tailhook Association 1979
66	7	Rosters, Membership Lists, US Naval Ordnance Test Station Retiree/Alumni Directory
66	8	Pamphlets
66	9	Maps
66	10	Maps
66	11	Change of Command Booklets
66	12	Ship Commissionings
66	13	Keel Layings
66	14	Membership Cards
66	15	Declassified Lists
66	16	NC-4 Crew Coin
67	1	Clippings 1940-54
67	2	Clippings 1961-64
67	3	Clippings 1967-69
67	4	Clippings 1970-75
67	5	Clippings 1976
67	6	Clippings 1977

67	7	Clippings 1978
67	8	Clippings 1979
67	9	Clippings 1980-82
67	10	Clippings 1983-84
67	11	Clippings 1985-86
67	12	Clippings 1987
67	13	Clippings 1988
67	14	Clippings 1990-92
67	15	Clippings Dates Unknown
67	16	Clippings Dates Unknown
67	17	Clippings Dates Unknown
67	18	Clippings Dates Unknown
67	19	Clippings Dates Unknown
67	20	Clippings Dates Unknown
67	21	Clippings Dates Unknown
68	1	Photo of Hull # 86 firing missile, Concept drawing of hull #12 firing missile, Photo of Hull #100 firing missile
68		Photo of Aegis cruiser firing VLS missile
68		Photo of USS ENTERPRISE CVAN-65 (4 copies)
68		Photo of Foreign Navy Admiral 19 Feb 1967
69	1	Transcript Memoirs of VADM John T. Hayward USN (Ret), Encompasses 1925-1968, his naval career, comments on domestic and international affairs