



## Guide to the Hughes Electronics Corporation Records

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Box 457010

4505 S. Maryland Parkway

Las Vegas, Nevada 89154-7010

[special.collections@unlv.edu](mailto:special.collections@unlv.edu)

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## Summary Information

<b>Repository:</b>	University of Nevada, Las Vegas. University Libraries. Special Collections and Archives.
<b>Creator:</b>	Hughes Electronics Corporation
<b>Contributor:</b>	Robert K. Roney Family
<b>Contributor:</b>	Mathews, Warren E.
<b>Title:</b>	Hughes Electronics Corporation Records
<b>ID:</b>	MS-00485
<b>Date [inclusive]:</b>	approximately 1935 to 2021
<b>Date [bulk]:</b>	1984 to 2003
<b>Physical Description:</b>	30.78 Cubic Feet (31 boxes, 1 oversized box)
<b>Physical Description:</b>	30.02 Linear Feet
<b>Physical Description:</b>	1 Websites (0.209 GB) WARC
<b>Physical Description:</b>	10 Digital Files (4.952 GB) M4V, MP4
<b>Storage Location:</b>	Some materials are stored in the Lied Automated Storage and Retrieval Unit (LASR). Advanced notice may be required to access these materials.
<b>Language of the Material:</b>	English
<b>Abstract:</b>	The Hughes Electronics Corporation Records (1935-2021) contain the files and publications of the corporate communications department and records donated by Robert K. Roney, a leading engineer at Hughes. These records document the growth of the company in Southern California, from building experimental aircraft for Howard Hughes, to developing and manufacturing radar and guided missile systems for the United States military and NATO forces, to developing and manufacturing communication satellites and space probes for NASA, and becoming the largest manufacturer of communication satellites and provider of satellite TV. The collection contains press releases, executive biographies, executive speeches, annual reports, corporate directories, organizational charts, correspondence files, technical reports and notes, promotional materials, as well as articles and publications detailing the history of the company. The collection also includes audiovisual materials and photographs. The audiovisual series details the

history of the company through news footage and documentaries about Howard Hughes, aviation, corporate mergers, interviews with executives and promotional videos.

### **Preferred Citation**

Hughes Electronics Corporation Records, 1935-2021. MS-00485. Special Collections and Archives, University Libraries, University of Nevada, Las Vegas. Las Vegas, Nevada.

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## **Historical Background**

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Howard Hughes formed Hughes Aircraft as a division of Hughes Tool Company in 1932. During World War II, Hughes Aircraft obtained defense contracts to develop high speed pursuit and reconnaissance aircraft as well as radar and communication systems. The most famous of these prototypes was the H-4 Hercules, better known as the Spruce Goose that only flew one time in 1947. In that same year, Hughes Aircraft formally renamed the Radio Department the Electronics Department.

In 1953, Hughes Aircraft Company was incorporated as a separate business entity with sole ownership held by the newly founded Howard Hughes Medical Institute. Although Howard Hughes remained the titular president of Hughes Aircraft company, in 1954 Lawrence A. "Pat" Hyland, Vice-President and General Manager, took control of the company. Under Hyland's direction, Hughes Aircraft established itself as a leader in avionics, radar, guided missiles, and missile and weapons guidance systems.

Some major weapon systems developed by Hughes Electronics during this period were the Falcon missile system (air-to-air missile), the Tube-launched, Optically-sighted, Wire-Guided (TOW) missile, and the Maverick (air-to-ground) missile. The launch of the Syncom series of satellites between 1961 and 1964 is notable in the development of geosynchronous communication satellites. The five Surveyor Series space probes (1966-1968) that were sent to the moon to photograph the lunar surface and analyzed soil prior to the lunar landing are a significant example of Hughes engineering capabilities during this period.

After Howard Hughes' death in 1976, Hyland became the company's president and CEO. In 1977, the management team consisted of Pat Hyland (Chairman and Chief Executive Officer), Allen Puckett (President), and John Richardson (Executive Vice-President). In 1979, Hyland retired from the Chairmanship. Puckett then assumed the Chairmanship and Richardson was named president of Hughes Aircraft Company.

In 1985, Hughes Aircraft was sold to General Motors. Following the purchase, General Motors merged its Delco Electronics Unit with Hughes Aircraft to create GM Hughes Electronics Corporation, a wholly owned subsidiary of General Motors. General Motors also put in place a new management team with Malcolm Currie as Chairman. GM Hughes Electronics Corporation

became the focus of a federal investigation, "Operation Uncover," which resulted in the company having to pay a 3.7 million dollar fine for trafficking in classified Pentagon planning documents. Hughes Electronics launched DirecTV in Jacksonville, Mississippi, in 1994 and later DirecTV Global was formed to oversee operations in Latin America and Japan. During this period GM Hughes Electronics changed its name to Hughes Electronics and it became the leading manufacturer of commercial satellites. It also entered into an agreement with PanAmSat to merge their satellite services with Hughes Electronics as the majority shareholder. Other notable projects during this period include the development of the Galileo Probe.

Michael T. Smith was named Chairman and CEO of Hughes Electronics Corporation in 1997. Following this change, various Hughes companies were realigned, reorganized, merged and spun-off. The Aerospace and Defense Division were merged with Raytheon. The Space and Communications division was sold to Boeing, and Hughes Helicopter was sold to McDonnell–Douglas. Hughes Electronics focused on consumer satellite services under DirecTV, DirectPC, and Spaceway, a broadband satellite system. General Motors, in a counter move, tried to sell Hughes Electronics to DirecTV's rival Echo Star, but the sale was blocked by federal regulators. However, in April 2003 Rupert Murdoch succeeded in acquiring Hughes Electronics, and renamed it DirecTV, which become a division of Fox Entertainment Group.

Sources:

Amir, Amir R. and Stanley I. Weiss, "Hughes Electronics Corporation," Britannica.com, accessed January 24, 2018, <https://www.britannica.com/topic/Hughes-Electronics-Corporation#ref754190>.

"C. Michael Armstrong 1938–," Reference for Business, accessed January 24, 2018, <http://www.Referenceforbusiness.com/biography/A-E/Armstrong-C-Michael-1938.html>.

Hughes Aircraft Company. The History, culture, and organization of the Hughes Aircraft Company. Culver City, CA: Carl Byoir & Associates, Inc., 1986.

Hughes Aircraft Company. Hughes Aircraft Company: What it is; What it does;. Culver City, CA: Carl Byoir & Associates, Inc., 1965.

Ostrow, Ronald J., "Hughes Chief Surfaces in Defense Investigation: Aerospace: The statute of limitations bars pursuit of Malcolm Currie, sources say, amid a sweeping probe of trafficking in classified Pentagon planning documents," Los Angeles Times (Los Angeles, CA), July 07, 1990, [http://articles.latimes.com/1990-07-07/business/fi-270\\_1\\_hughes-aircraft](http://articles.latimes.com/1990-07-07/business/fi-270_1_hughes-aircraft).

"PanAmSat Corporation," Company-Histories.com, accessed January 24, 2018, <http://www.company-histories.com/PanAmSat-Corporation-Company-History.html>

<b>Chronology</b>	
1932	Hughes Aircraft founded as a division of Hughes Tool Company
1947	Radio Department of Hughes Aircraft formally renamed the Electronics Department

1953	Ownership of Hughes Aircraft Company transferred to Howard Hughes Medical Institute
1976 April 05	Death of Howard Hughes
1985	Howard Hughes Medical Institute sold Hughes Aircraft Company (HAC) to General Motors (GM). HAC is merged with Delco Electronics unit to become GM-Hughes Electronics Corporation
1994	DirecTV is launched
1995	GM-Hughes Electronics Corporation name is changed to Hughes Electronics Corporation, Hughes Aircraft remains as a business segment
1996	Hughes Electronics became majority shareholder of PanAmSat
1997	Aerospace and Defense divisions of Hughes Electronics merged with Raytheon; Raytheon acquired half of Hughes Research Laboratories division
2000	Hughes Space and Communications division sold to Boeing
2003	DirecTV purchased by Rupert Murdoch's News Corporation

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## Scope and Contents Note

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The Hughes Electronics Corporation Records (1935-2021) contains the files and publications of the corporate communications department, which collected materials created by Hughes Aircraft Company, General Motors Corporation, GM Hughes Electronics Corporation, Hughes Electronics Corporation, DirecTV Global, PanAmSat, and DirecTV. The collection also contains records donated by Robert K. Roney, a leading engineer at Hughes. The collection documents the growth of the company in Southern California from a maker of experimental aircraft for Howard Hughes, to developing and manufacturing radar and guided missile systems for the United States military and NATO forces, to a developing and manufacturing communication satellites and space

probes for NASA, and finally becoming the largest manufacturer of communication satellites and provider of satellite TV.

The collection contains press releases, executive biographies, executive speeches, annual reports, corporate directories, organizational charts, correspondence files, technical reports and notes, promotional materials, as well as articles and publications detailing the history of the company. The collection also includes a sizeable number of digital and analog audiovisual materials and photographs. The audiovisual collection details the history of the company through news footage and documentaries about Howard Hughes, aviation, corporate mergers, interviews with executives and promotional videos. In the collection, the primary formats for audio visual materials are VHS, Umatic, Betacam, and Betacam SP cassettes, and some reels of magnetic tape. There are a significant number of photographs of executives, experimental aircraft like the H-1 (Hughes Racer) and the H-4 (Spruce Goose), radar and guided missiles systems, and satellites in production and being launched, as well as images taken from space of the earth, lunar surface, and planets. The collection also includes an archived version of *Our Space Heritage 1960-2000*, a blog for employees of Hughes Aircraft Corporation to contribute their personal stories as a part of the company's history.

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## Arrangement

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These records are organized into seven series:

Series I. Subject files and photographs, 1935-2003;

Series II. Corporate communications, 1954-2001;

Series III. Publications and reports, 1949-2003;

Series IV. Audiovisual, 1984-2003;

Series V. Corporate executive biographies with photographs, 1944-2003;

Series VI. Robert K. Roney files, 1950-1991;

Series VII. 2021 addition, approximately 1954-2021.

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## Administrative Information

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### Access Note

Collection is open for research. Where use copies do not exist, production of use copies is required before access will be granted; this may delay research requests. Arrangements must be

made in advance to access digital files; please contact UNLV Special Collections and Archives for additional information.

## Publication Rights

Materials in this collection may be protected by copyrights and other rights. See [Reproductions and Use](#) on the UNLV Special Collections and Archives website for more information about reproductions and permissions to publish.

## Acquisition Note

Materials were received in multiple donations: in 2004 from Hughes Electronics; accession number 2004-010, in 2012 from the family of Robert K. Roney; accession number 2012-21, in 2012 from Dan Rey; accession number 2012-26, and in 2021 from Stephen Roney and Jack Fisher; accession numbers 2021-077, 2021-087, and 2021-093.

## Processing Note

Peter Michel processed the collection in 2004. In 2018, as part of an archival backlog elimination project, Brooks Whittaker and Chris Bruce rehoused and arranged the materials, and revised the collection description to bring it into compliance with current professional standards. In 2021, Tammi Kim accessioned the 2021 additions and updated the finding aid.

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## Related Materials

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### Related Collections

The following resources may provide additional information related to the materials in this collection:

Howard Hughes Public Relations Records, 1930-1990. MS-00380. Special Collections and Archives, University Libraries, University of Nevada, Las Vegas. Las Vegas, Nevada.

Howard Hughes Professional and Aeronautical Photographs, 1916-1997. PH-00321. Special Collections and Archives, University Libraries, University of Nevada, Las Vegas. Las Vegas, Nevada.

### Separated Materials

Publications of *HughesNews* and *Vectors* that were acquired as part of this collection have been separated and described individually in the [University Libraries' catalog](#).

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## Names and Subjects

- Engineering firms -- United States -- History
- Aircraft industry -- United States -- History
- Hughes Flying-boat (Seaplane)
- Aviation
- photographs
- Aerospace industries
- Artificial satellites in telecommunication
- Guided missile industries
- Aerospace engineering
- Electronics
- Airplanes
- Hughes, Howard, 1905-1976
- Hughes Aircraft Company
- General Motors Corporation
- GM Hughes Electronic Corporation
- PanAmSat Corporation
- DIRECTV (Firm)

## Collection Inventory

### Subject files and photographs, 1935-2003

Physical Description: 4.52 Cubic Feet (4 boxes)

Physical Description: 4.17 Linear Feet

Scope and Contents Note: The subject files and photographs series of the Hughes Electronics Corporation Records date from 1935-2003. This series contains subject files on the company history, some of its major technological developments, and its purchase by General Motors. Photographs in this series document Hughes developed technologies in use by NATO forces, development of the Galileo probe, the H-1 Racer, and communication satellites. Also in this series are files and photographs of the NASA Pioneer 10/Jupiter encounter.

Arrangement: Materials are arranged by subject.

Title/Description	Containers
Hughes investor and analyst conference printed presentation, 1998	box 08
Hughes logo example design boards, undated Physical Description: 9 Files	box 10
Awards	
The Los Angeles Council of Black Professional Engineers Corporate Recognition Award, 1997 May 31	box 22

American Red Cross, 1996 August	box 22
Personnel Management Association of Aztlan, 1997 April 25	box 22
Asian Pacific Legal Center of Southern California, 1994 October 27	box 22
San Fernando Valley Child Guidance Clinic, 1997 May	box 22
Hispanic Engineer National Achievement Awards Conference VII, 1995	box 22
Los Angeles Council of the Institute of Electrical and Electronic Engineers, 1995	box 22
Children's Hospital Foundation of Orange County, 1997	box 22
Letter from Howard Hughes to the general manager of Hughes Aircraft Company, 1949	box 01
Hughes highlights list of events and photocopy of stock certificate, 1949-1986	box 01
Booklets on space research, manual for safe guarding classified information, The National Aviation Club and National Aeronautic Association Banquet, 1951-1974	box 01
Minutes of meeting of incorporators, 1953	box 01
Correspondence with regard to business opportunities in television, 1960-1961	box 01
Howard Hughes Medical Institute	
Articles, correspondence, press releases and biographies, 1959-1976 Physical Description: 3 Files	box 01
Company history	
Paper and articles on company history, 1954-1988 Physical Description: 5 Files	box 01
Histories and chronologies of Semiconductor Division, communication satellites, and Hughes Electronics, 1981-1986	box 01
Awards, articles, speeches and correspondence related to Allen E. Pucket, 1962-1984	box 01
Articles about or by John H. Richardson, 1981	box 01
Syncom	
"Dynamic Analysis and Design of the Synchronous Communications Satellite" report, 1960	box 01
Photographs of Hughes executives at Cape Canaveral for Syncom launch, 1963	box 01
"Project Syncom - Syncom Mark I: Telemetry and Command System Analysis" report, 1965	box 01
"Development of Hughes' Gyrostat System" report, 1967	box 01

Photographs related to Syncom satellite project, 1963	box 02
Dr. Rosen and Nobel Prize nomination, 1969-1972	box 01
Summary report regarding decoder case, 1979	box 01
Polaroid photographs of presentation, promotional literature, and correspondence related to Theta Com, 1970-1974	box 01
Brochures memorializing Howard Hughes' achievements in aviation, 1973-1976	box 01
Photographs and promotional material regarding Hughes communication satellites, 1977-1978	box 01
General Motors	box 01
Photographic History of General Motors, undated	box 01
Presentations to GM Board of Directors regarding diversification, 1986	box 01
GM milestones timeline, 1985	box 01
Letter to stockholders, 1985	box 01
Photocopies of slidepresentation at GM HQ board meeting in Detroit, Michigan, 1988 December 15	box 01
Presentation to general managers meeting - Santa Barbara, California, 1978 April 10	box 01
Materials related to Hughes' employees and how company will deal with cuts in defense spending, 1981-1989	box 01
Summary report on comparison of prestige of Hughes Aircraft and TRW, 1983	box 01
Goldman Sachs offering memorandum for Hughes Aircraft Company - El Segundo, California, 1983	box 01
"Hughes Aircraft Company: Leader in Technology," 4th draft of script, 1985	box 01
General Motors purchase of Hughes Aircraft Company	
Photocopied articles about GM - Hughes merger and technology, 1985-1986	box 01
Articles, reports, and correspondence related to technology and knowledge transfer between GM and Hughes, 1982-1986	box 01
Description of Hughes Aircraft Company - GMHE / Hughes / Delco, 1986	box 01
GM-Hughes Electronics presentation to GM protection plan 1987 business plan seminar, 1987 January 10	box 01
GM-Hughes Electronics first shares of stock distributed, 1987	
GM Corporation and GMHE Corporation news conference, 1985 November 18	box 02

Technologies developed, 1986-1989	box 01
Articles and cartoon related to Hughes Aircraft Comapnay and/or Howard Hughes, 1985-1990	box 01
"A Qualitative Response to GMHE Introductory Advertising" report, 1986	box 01
GM Hughes corporate advertising campaign, 1986	box 01
"Counter Intelligence Awareness Primer II" booklet, 1988	box 01
"EOSDIS Abbreviations and Acronyms" booklet, 1991	box 01
Materials related to the death and memorialization of Lawrence A. "Pat" Hyland, 1989-1990	box 01
GM-Hughes defense steering committee report, 1987 Physical Description: 2 Files	box 02
Program for President Jiang Zemin's visit to Hughes Electronics Corporation, 1997 November 02	box 02
Hughes Communications: Chronology, 1998	box 02
Article drafts, photographs and correspondence for the Encyclopedia of Space Science and Technology, 1998-2000 Physical Description: 4 Files	box 02
CMA interview with Jeff Cole of Wall Street Journal, undated	box 02
Review of GM Hughes Electronics presentation to Cowen Aerospace Conference, 1987 November 18	box 02
Travel ephemera, 1974	box 02
Articles related to Hughes Communications and Satellites, 1996-1997	box 02
Pioneer/Jupiter Encounter	box 02
Press releases, reference material, and news conference transcript, 1973	box 02
Press kit, 1973	box 02
Non-Hughes publications, 1973	box 02
Newspaper articles, 1973	box 02
Printed matter and ephemera, 1973	box 02
Photographs and press releases, 1973 Physical Description: 2 Files	box 02
Photographs	
Hyland/Puckett photographs, undated Physical Description: 1 Optical Discs	box 01
New Satellite Operations Facility Ribbon Cutting, North Las Vegas, 2003 November 18	box 01

Physical Description: 1 Optical Discs

Photographs of the Mobot, an electro-mechanical manipulating system, undated	box 03
Photographs of Pat Hyland's 90th birthday party, 1987 August 27	box 03
Photographs of USS Ranger, MK-23-TAS, 1985	box 03
Photographs of NATO personnel using Hughes equipment, 1980-1990	box 03
Photographs of SLQ '17 USS Enterprise, 1980-1990	box 03
Photographs of AN/PRC-104 in Antarctic, 1980-1990	box 03
Photographs and negatives of NATO forces using Hughes equipment, undated	box 02
Physical Description: 4 Files	
Photographs of exteriors and interiors of a number of naval vessels, 1980-1990	box 03
Photographs and negatives showing Hughes H-1 Racer and satellites at Air and Space Museum in Washington, DC, negative shows Spruce Goose on water, undated	box 02
Captioned photographs of satellites, undated	box 02
Photograph of Howard Hughes and plane, H-1 Racer, 1935	box 02
Captioned photographs of C. Blaine Shull, manager of Tucson activities, showing off new tools, 1985	box 02
Photograph and materials related to Hughes Aircraft Corporate Headquarters in Westchester, California, 1985	box 02
Photographs and negatives of Chairman's program group, 1990 September 26	box 02
Photograph of painting with Howard Hughes in flight suit, undated	box 01
Photograph of individual at Department of Defense with and without wig, undated	box 01
Photographs and negatives of Hughes satellite being prepared for launch, 1984	box 02
Photographic negatives of large satellite dish tray and Long Beach Broadcast Center, approximately approximately 1990s Physical Description: Approximately 250 photographic negatives displaying satellites, satellite dishes, a family at home with satellite dish, technician working at broadcast center, and several unidentified images	box 23
Photographs related to Galileo Probe, 1989-1995	box 02
Moon rise over HADR, final print samples and final negative sandwiches, undated	box 03

Assorted photographs of Early Bird and other satellites, Surveyor  
Spacecraft, lasers, Hughes headquarters, 1965 (sod2025-043) ([view  
online](#))

box 23

Physical Description: 2 Files

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## Corporate executive biographies with photographs, 1944-2003

Physical Description: 2.26 Cubic Feet (2 boxes)

Physical Description: 2.08 Linear Feet

Scope and Contents Note: The corporate executive biographies with photographs series of the Hughes Electronics Corporation Records date from 1944 to 2003. The series contains biographies and headshots of the Hughes leadership team as well as some General Motors leadership team.

Arrangement: Biographies are mostly arranged alphabetically by last name. Other biographies are organized by team number according to the Hughes Electronics hierarchy.

Title/Description	Containers
Corporate biographies A-Z, 1944-2002 Physical Description: 187 Files	box 17
Biographical sketches and Hughes Aircraft Company Executive Organization, 1959-1984 Physical Description: 2 Files	box 17
Additional biographies, 1959-1989	box 17
Old biographies, 2000-2003	box 18
Questionnaire "Who's Who in America", 1969-1970	box 18
01 Corporate, 1972-1995 Physical Description: 3 Files	box 18
06 Hughes International, 1981-1993 Physical Description: 3 Files	box 18
10 Ground Systems Group, 1988-1993 Physical Description: 3 Files	box 18
70 Electro-Optical and Data Systems Group, 1985-1993 Physical Description: 3 Files	box 18
90 Industrial Electronics Group, 1986-1993 Physical Description: 3 Files	box 18
50 Missile Systems Group, 1987-1992 Physical Description: 3 Files	box 18
21 Radar Systems Group, 1988-1992 Physical Description: 3 Files	box 18
40 Space and Communications Group, 1985-1991	box 18

Physical Description: 3 Files	
28 Support Systems, 1984-1992 Physical Description: 3 Files	box 18
100 Subsidiaries and Affiliates, 1989-1993 Physical Description: 3 Files	box 18
30 Research Laboratories, 1986-1990 Physical Description: 3 Files	box 18
New senior leadership team at GM Hughes, 1997	box 18
GM Board of Directors, 1986 Physical Description: 2 Files	box 18
Black-and-white photographs of executives, 1950-1997 Physical Description: 18 Files	box 18

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## Corporate communications, 1954-2001

Physical Description: 4.52 Cubic Feet (4 boxes)

Physical Description: 4.17 Linear Feet

Scope and Contents Note: The corporate communications series of the Hughes Electronics Corporation Records date from 1954 to 2001. This series contains press releases, typed executive speeches, press kits, handbooks for the news media, communication guidelines, and a list of public relations managers.

Arrangement: Press releases and executive speeches are arranged chronologically. The remaining material is arranged by subject.

Title/Description	Containers
Executive speeches, 1959-2001 Physical Description: 14 Files	box 10
Press releases	
Press releases arranged by year, 1954-1988 Physical Description: 45 Files	box 03 box 04 box 05
Syncom tenth anniversary press kit, 1973	box 05
Press release about direct broadcast satellites in United States and Latin America, 1987	box 05
Launch of Hughes satellites with photographs, 1983	box 05
Discovery's maiden payload with photographs, 1984	box 05
Press release about Asia-Pacific development, 1996	box 05
General Motors purchase of Hughes Aircraft Company, 1983-1987	box 05

Physical Description: 3 Files

General Motors, 1985-1986	box 05
Physical Description: 2 Files	
Press release about the elimination of chlorofluorocarbons, 1992	box 05
Coherent light, Project Syncom, and chronologies of aviation and space events, 1960-1969	box 05
European press conference, 1965	box 23
GM-Hughes Electronics Solar car public relations, 1987	box 02
Armstrong succeeds Currie, 1992	box 02
Physical Description: 2 Files	
Press release about airplanes flown by electronics, 1955	box 01
General Motors information handbooks for the news media, 1985-1990	box 05
List of corporate communications and public relations managers, undated	box 05
Communication guidelines, 1985	box 02
1986 Media Plan, 1986	box 02

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## Publications and reports, 1949-2003

Physical Description: 6.78 Cubic Feet (6 boxes)

Physical Description: 6.25 Linear Feet

Scope and Contents Note: The publications and reports series of the Hughes Electronics Corporation Records date from 1949 to 2003. The materials include product and service brochures, employee resource literature and newsletters, organizational charts, directories, annual reports, and reports on the United States defense industry. This series also contains publications that were not produced by Hughes Electronics but were collected on topics relating to the work of the company or Howard Hughes. These include marketing material from other aerospace/defense companies, newspaper articles, and popular magazines including *Look*, *Fortune*, and *Variety*.

Arrangement: Marketing material is grouped by major product divisions. Annual reports are arranged chronologically. Remaining material is arranged by topic.

Title/Description	Containers
Marketing materials	
Overview of company products and services, 1958-1992	box 06
Physical Description: 28 Files	
Space and Communications, 1974-1994	box 06
Physical Description: 79 Files	box 23
Research Laboratories, 1950-1995	box 06

Physical Description: 16 Files	
Network Systems, 1992-1996	box 06
Physical Description: 67 Files	
Radar Systems Group, 1985-1995	box 06
Physical Description: 14 Files	
Ground Systems Group, 1949-1995	box 07
Physical Description: 12 Files	
Industrial Electronics Group, 1987-1993	box 07
Physical Description: 6 Files	
International, 1993-1996	box 07
Physical Description: 11 Files	
Delco Electronics and General Motors, 1983-1993	box 07
Physical Description: 4 Files	
DirecTV, 1993-2003	box 07
Physical Description: 28 Files	
Hughes Training, 1993	box 07
Physical Description: 3 Files	
Electro-Optical, 1985-1994	box 10
Physical Description: 9 Files	
Training Simulation and Support Systems, 1985-1996	box 10
Physical Description: 10 Files	
Publications not produced by Hughes Electronics	
Code One, 1996-1997	box 07
Physical Description: 4 Files	
Thiokol, 1997	box 07
Physical Description: 2 Files	
The Leading Edge, 1991-1994	box 07
Physical Description: 3 Files	
The Northrup Grumman Review, 1995-1997	box 07
Physical Description: 2 Files	
Spirit, 1994	box 07
Airliner, 1995	box 07
Electron Magazine, 1993	box 07
Blue Angels, 1994	box 07
Chevron World, 1992	box 07
Unisys Performance, 1990	

	box 07
Fortune, 1954, 1968, 1978 Physical Description: 3 Files	box 07 box 23
Shuttle, 1984	box 07
Smithsonian, 1988	box 07
Chronicle of the year, 1988	box 07
"Space Log Volume 27, 1957-1991", 1992	box 07
"Inventing the Future", 1993	box 07
Variety, 1996, 1997 Physical Description: 2 Files	box 23
Look, 1971	box 23
The New York Times Magazine, 1975	box 23
Los Angeles Times, 1972, 1976 Physical Description: 2 Files	box 23
Los Angeles Evening and Sunday Herald Examiner, 1976	box 23
The Chinese Future, undated	box 07
Canadair Challenger 601-3R, undated	box 07
Business Week - Articles about C. Michael Armstrong, 1986	box 07
Uplink, 1987-1998 Physical Description: 22 Files	box 08
Synergy, 1989-1990 Physical Description: 4 Files	box 08
Hughes International Connections, 1995-1997 Physical Description: 10 Files	box 08
Hughes Electronics Herald index, 1993-1997 Physical Description: 2 Files	box 08
Morgue Index, 1994 Physical Description: 2 Files	box 08
Company information booklets, 1965, 1991 Physical Description: 4 Files	box 08
Company review for employees, 1980-1984 Physical Description: 7 Files	box 08
Human Resources literature, 1986-1998 Physical Description: 14 Files	box 08
Hughes Electronics Review, 1998-2000	box 08

Physical Description: 21 Files

GM Today, 1986-1987 Physical Description: 5 Files	box 08
Annual reports	
Hughes Aircraft Company, 1953, 1977-1978, 1981-1984 Physical Description: 7 Files	box 09
GM Hughes Electronics Corporation, 1985-1994 Physical Description: 9 Files	box 09
General Motors, 1984-2002 Physical Description: 15 Files	box 09
Hughes Electronics Corporation, 1995-2002 Physical Description: 12 Files	box 09
Howard Hughes Medical Institute Director of Research, 1979-1980	box 09
PanAmSat, 1995, 1997 Physical Description: 2 Files	box 09
General Motors Public Interest Reports, 1985-1988 Physical Description: 4 Files	box 09
GM Hughes financial results, 1986-1987 Physical Description: 2 Files	box 09
Report on United States defense industry, 1986-1989	box 09
Report on the Gulf War/Desert Storm experience, 1991	box 09
Hughes Aircraft Company organizational charts and directories, 1951-1992 Physical Description: 14 Files	box 19

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## Audiovisual, 1984-2003

Physical Description: 6.78 Cubic Feet (6 boxes)

Physical Description: 6.25 Linear Feet

Scope and Contents Note: The audiovisual materials series dates from 1984 to 2003 and chronicles Howard Hughes and various aspects of Hughes Electronics. In addition to the documentary "Howard Hughes the Aviator," the series contains historical footage of Howard Hughes. There are also interviews with top executives of the company and footage relating to significant events in the company's history such as mergers, Chinese President Jiang's visit to Hughes' headquarters in 1997, and the 1996 shooting at the Hughes facility in El Segundo, California. Promotional materials relating to the accomplishments of various divisions of the company also feature prominently, as do presentations highlighting company products particularly in relation to communication satellites and DirecTV.

The information in this series resides on number of different media types. The most common media type is the VHS cassette (primarily in the NTSC format, with some in the PAL format). There are also a sizeable

number of Umatic (3/4 inch NTSC format), Betacam, and Betacam SP cassettes. Other media included in the series are reels of different sized magnetic tape, a Zip 100 diskette, and two 650 MB CD-R recordable CDs.

Arrangement: Materials remain in the order they were received.

Title/Description	Containers
Hughes Tool Company; First Bit; Boring Machine; Howard Hughes' Rotary Spark Gap LBJSpace Center Sign, Transmitter ECN, WP, 1984 September 02	box 11
Hughes Aircraft Company "Howard Hughes the Aviator", 1994 September 01	box 11
Howard Hughes Movietone Footage, undated	box 11
Hughes Aircraft Stock Footage for the Discovery Channel- Flying Boat Howard Hughes Culver City Plant-Camera Original, 1997 December	box 11
Video News Release Corporate Announcement, undated	box 11
LH Pilot System, undated	box 11
ATEMS Overview, 1980 May 28	box 11
DFA Overview, undated	box 11
20/20: "When the Roof Caves In", 1992 July 17	box 11
PanAmSat Corporate Video, 1999 December 09 (MS_00485_011) Physical Description: 1 Digital Files (0.054 GB) MP4	box 11 digital file 00
Advanced DirecTV Receiver with TiVo P.O.P. Loop Final Version, 2001 February 07	box 11
Hughes Space and Communications: Satellite Manufacturing B-Roll 2000, 2000 July 31	box 11
Hughes Electronics B-Roll, undated	box 11
F05-237 Howard Hughes in AVA; F05-442A Roots of Hughes 525 NTSC, 1991 December 11	box 11
"The Amazing Howard Hughes", undated	box 11
"Might is Right; They Died to Make the Desert Bloom", undated	box 11
General Motors/Hughes Technology exchange meeting, 1989 November 07 Physical Description: 2 VHS Tapes	box 11
Hughes Aircraft; Howard Hughes and Aviation, Roots of Hughes, undated	box 11
Oldsmobile Cutlass Supreme headup display commercial, 1991	box 11
"The Message is Hughes" Hughes Space and Communications Company, undated (MS_00485_010) Physical Description: 1 Digital Files (0.168 GB) MP4	box 11 digital file 00
Radar Systems Group Opel Reconfigurable HUD (GM restricted), undated	box 11

Radar Systems Group Advanced Lightning Technology (GM restricted), undated	box 11
STK109B Head Bit Gallery, undated	box 11
STK109C-Howard Hughes Photos and Patent Models, undated (MS_00485_012) Physical Description: 1 Digital Files (0.801 GB) MP4	box 11 digital file 00
"Howard Hughes in Aviation", 1984 January	box 11
"Howard Hughes the Aviator" Sub-Master with Code, 1986 April 15	box 12
PanAmSat "Holy Grail Video", 1998 October 27 Physical Description: 2 VHS Tapes	box 12
Japan America Society 87th Annual Dinner, 1998 February 24	box 12
China Launch Failure, 1996 February 15	box 12
Hughes Network Systems "We Make it Happen", undated	box 13
Hughes Space and Communications, "This is Hughes" (Short), 1996 July 07	box 12
Allen Puckett- Aero Club Tribute, 1998 January 22	box 13
California Commission "Tax Policy in the New Economy, 2003 May 22	box 13
Tape 8 Apollo, undated	box 12
Corporate Announcement Video New Release, 2002 February 26 Physical Description: 5 VHS Tapes	box 12
Visit from President of China, 1997 November 02	box 12
Hughes Space and Communications "This is Hughes" (Short)- PAL, 1996 June 12	box 12
PanAmSat "Lost in Space", 1998 October	box 12
Sunset Post Incorporated, "T.V.V.I.A." Garreth Chang, 1996 April 23	box 12
Steve Dorfman: Forty-Two Years at Hughes, 1999 May 22	box 12
GMHE Global Perspective, 1994 January 11	box 12
President Jiang Zemin Meets with C.M. Armstrong CCTV 1, President Jiang Zemin Meets with C.M. Armstrong CCTV 4, Hughes Media Briefing-PAL, undated	box 12
Hughes Space and Communications "This is Hughes" Mandarin, 1996 October 22	box 13
The Lucius Perry Gregg Jr. Story, Mike Armstrong Message, 1999 August 21	box 12
DirecTV, California Commission on Tax Policy in the New Economy, 2003 June 04	box 12

Chinese President Jiang Zemin Visits Hughes Satellite Factory-PAL, 1997 November 02	box 12
Tape 7 Gemini, undated	box 12
4309 "EDSG" "Howard- H. in Aviation", (Our Town), and Mag Track, 1984 October 09	box 12
Dreams Take Flight the Hughes Legacy, 1997 Physical Description: 4 VHS Tapes	box 13
"Hughes Road Show Video", 2000 April Physical Description: 4 VHS Tapes	box 13
Hughes Press Day, Boeing Purchase Annoucement, CNBC, CNNfn, Bloomberg Interviews & Teleconference, 2000 January 14 Physical Description: 2 VHS Tapes	box 13
Hughes Press Day, MTS Interviews and Employee Presentation, 2000 January 14	box 13
NTSC Hughes Software Systems, undated	box 13
Globalworks (251) Hughes Electronics Corporation, 2001 January 18 Physical Description: 4 VHS Tapes	box 13 box 14
Corporate Announcement Video News Release, 2002 February 25	box 13
Chairman's Honors Awards; Leadership; Responsiveness, 1998	box 13
Boeing Buys HSC, Corporate Meeting, Mike Smith, Eddy Hartenstein, Jack Shaw, 2000 January 14	box 13
HE Stock Sale Road Show Video, 1999 May 26	box 13
B-Roll Master, 2000 June 30	box 13
1999 Chairman's Honors Awards Compilation Video, 2000 May 22	box 13
Chairman's Honors Awards; Pat Hyland; Innovation; Performance, 1998	box 13
Boeing Buys HSC Mike Smith Interviews NBC, CNNfn, Bloomberg, Fox News, 2000 January 14	box 13
DirecTV, Hughes Video News Release Corporate Announcement-Mono Version, 2002 August 16 Physical Description: 2 VHS Tapes	box 13
Master-Corporate Announcement Video New Release, 2002 February 26 Physical Description: 1 Betacam SP Videotapes	box 12
Roadshow Video (Presentation Copy, George Jamison)- Protection Master, 2002 March 18	box 13
Hughes Electronics B-Roll, 2000 November 14 Physical Description: 1 Betacam SP Videotapes	box 13

Physical Description: 1 VHS Tapes

Entire Interview Film, Old Logo, 2000 April 27	box 13
Hughes B-Roll, DirecTV, Spaceway, PanAmSat, Hughes Network Systems, Satellite Animation, 1999 June 21	box 13
Physical Description: 2 Betacam SP Videotapes	
Physical Description: 1 VHS Tapes	
Hughes Electronics B-Roll Video, HSC Satellite Manufacturing, DirecTV, Spaceway, PanAmSat, Hughes Network Systems, 2000 January 12	box 13
Physical Description: 1 Betacam SP Videotapes	
Physical Description: 1 VHS Tapes	
Hughes Electronics Corporation "Runner", 2000 October 19	box 13
GM Press Conference, Hughes/Raytheon Announcement, 1997 January 16	box 13
Contact Jeff Bothwell, 2000 November 07	box 13
CEO Announcement and Press Conference, 1992 April 08	box 13
Hughes/Echostar Video News Release Corporate Announcement, undated	box 13
4222 "Howard Hughes in Aviation", undated	box 15
Hughes Interview B-Roll, undated	box 14
Physical Description: 2 Betacam SP Videotapes	
Hughes Corporate Announcement Video News Release (Sigma Encoded)-Master, 2002 March 15	box 14
Hughes/Echostar Video News Release Corporate Announcement- New Master, 2002 March 07	box 14
Hughes Film Stock Footage, undated	box 14
Hughes Interview B-Roll with New Logo Reveal-Master, undated	box 14
President Jiang Visit Hughes, Hill and Knowlton, 1997 December 11	box 14
Galaxy Latin America, Galaxy VIII-I Satellite Launch, Footage from Tapes 8, 9, 10, 11, 1997 December 09 (MS_00485_005)	box 14
Physical Description: 1 Digital Files (1.590 GB) MP4	digital file 00
Shooting Incident at Hughes All TV News Reports Taken from Broadcasts Client Supplied Tapes, 1996 April 17	box 14
DirecTV Latin America/Press Conference, 1995 March 06	box 14
Hughes Interview Footage, 2000 June 05	box 14
Hughes Film, 2000 April 27	box 14
DirecTV "Hughes Interview B-Roll" with New Logo, 2001 May 07	box 14
Physical Description: 17 Betacam SP Videotapes	
Hughes Interview B-Roll with New Logo Reveal, undated	box 14
Physical Description: 2 VHS Tapes	

Physical Description: 1 Betacam SP Videotapes

Merger Hearings Tapes 1 through 5, 2002 March 06	box 14
Physical Description: 5 VHS Tapes	
Strategic Partner Forum "Sizzle Video", undated	box 15
"DirecTV B-Roll", 2000 January 31	box 15
Hughes Network Systems Direct PC B-Roll, 2000	box 15
EOS Open House, Howard Hughes, EOS Products, (Tactical and Space)- Edited Master, 1994 February 23	box 15
"Howard Hughes: Flying Boat", 1984 April 11	box 15
"Howard Hughes: The Movie Maker", 1984 April 11	box 15
Hughes Aircraft Company: A Legacy of Excellence- Edited Master, undated	box 15
"Howard Hughes: The Aviator", 1984 April 11	box 15
Howard Hughes in Aviation- Master, undated	box 15
Howard Hughes: The Aviator- Master, undated	box 15
Web TV/Ultimate TV Announcement with B-Roll, 2001 February 05	box 15
"DirecTV B-Roll", 2000 January 31	box 15
Advanced DirecTV Receiver with TiVo P.O.P. Loop Final Version VHS Transfer, 2001 February 07	box 15
Wink B-Roll "ESPN", "Clorox 2", undated	box 16
The Message is Hughes, 2000 March 31	box 16
Boeing Buys HSC M. Smith Interviews CNBC, CNNfn, Bloomberg, Fox News, 2000 January 14	box 16
DirecTV World Cup Soccer Announcement, undated	box 16
Web TV - VNR 1/06/01 Ultimate TV Announcement 1. Full Story - Mono Mix, 2. Full Story - No VO/Supers, 3. Interview Segments, 4. B-Roll Footage, 2001 January 06	box 16
Compilation of: 1. Hughes Electronic Corporation: Corporation Runner, 2. Hughes Interview B-Roll, 3. AOL TV VNR, 4. Wink B-Roll, 5. DirecTV B-Roll, undated	box 16
A Brighter Vision, 1996 (MS_00485_008)	box 16
Physical Description: 1 Digital Files (0.122 GB) MP4	digital file 00
Hughes Enterprise Learning Tape #9, undated	box 16
Wink Seq., 2001 January 17	box 16
AOL TV VNR America Online, 2000 June 15	box 16

Hughes Electronics 1998 "Answers in the Sky", 1998 March 26	box 16
Hughes Network Systems Direct PC B-Roll, 2000	box 16
The Bloomberg Forum: Hughes Electronics Michael Smith Chairman/CEO, 1998 September 11	box 16
The Bloomberg Forum: Hughes Electronics/DirecTV Michael Smith Chairman/CEO Eddy Hartenstein, President, 1998 December 14	box 16
Hughes Interview B-Roll W/New Logo Reveal, undated	box 16
Global Works Hughes Electronic Corporation Corporate Runner New AO, 2000 October 23	box 16
Hughes Electronics 1998 "Answers in the Sky", 1998 March 26	box 16
"Jiang Zemin" 60 Minutes CBS Network, 2000 September 03	box 16
"Hughes Electronics/Boeing" Power Lunch CNBC Cable, 2000 January 12	box 16
Associated Images Hughes: Chairman's Honors Award 2001 "The Achievement Zone", 2001 June 26	box 16
"Philip Condit, Chairman, CEO, Boeing" Business Center CNBC Cable, 2000 January 13	box 16
HSC/Boeing Announcement W/ M. Smith & T. Krekel, 2000 January 13	box 16
Hughes - Imagine, 1998 September 04	box 16
"This is Hughes" (short), 1996 July 18	box 16
Hughes B-Roll DirecTV, Spaceway, PanAmSat, Hughes Network Systems, Satellite Animation, 1999 June 21	box 16
GM Press Conference Hughes/Raytheon Announcement, 1997 January 16	box 16
Hughes Space and Communications Satellite Manufacturing B-Roll 2000, 2000 July 31 (MS_00485_009)	box 16
Physical Description: 1 Digital Files (0.658 GB) MP4	digital file 00
Howard Hughes in Aviation, 1986 July 02	box 16
Hughes Aircraft Company "Old Corp. Commercials", 1989 August 07	box 16
PAS NET 36 MPEG file Alan Kung Misc. Stuff, undated	box 16
PAS Net-36 MPEG, undated	box 16
WINK: Weather Channel, ESPN, Barnes and Noble HNS USAT Cust. Logos, undated	box 16

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## Robert K. Roney files, 1950-1991

Physical Description: 2.26 Cubic Feet (2 boxes)

Physical Description: 2.08 Linear Feet

Scope and Contents Note: Robert K. Roney (1922-2017) was a leading engineer and Senior Vice President with Hughes Aircraft Company. During his career at Hughes he made major contributions with regard to the development of air-to-air missiles, lunar landing spacecraft and communications satellites. The Robert K. Roney files (1950-1991) contains his author (correspondence) files, and engineering notes, and numerous technical reports, some of which he authored.

Source:

"Dr. Robert K. Roney," National Academy of Engineering, accessed January 31, 2018, <https://www.nae.edu/MembersSection/MemberDirectory/27589.aspx>

Arrangement: Materials remain as they were received.

<b>Title/Description</b>	<b>Containers</b>
"The Microwave Engineers' Handbook", 1965	box 19
Spectrum Analysis Noise reports, 1973-1977 Physical Description: 2 Files	box 19
Articles about microwave theory and wavetube amplifiers, 1968-1988 Physical Description: 2 Files	box 19
Summaries of readings in management development, 1977-1979	box 19
"Electronic Industries", 1960	box 19
Programs for new employees and visitors to Allis-Chalmers Corporation, 1984	box 19
Correspondence regarding MBB versus Hughes Aircraft Company, 1991	box 19
Author files (correspondence), 1956-1982 Physical Description: 15 Files	box 20 box 21
Project Surveyor reports, 1960-1968 Physical Description: 3 Files	box 21
Surveyor 1 and 3, undated	box 21
Articles, correspondence, and notes, 1956 Physical Description: 2 Files	box 21
Correspondence relating to review of satellite communications, 1960-1961	box 21
Discussion of novel antenna and coupling system for transmitting and receiving, undated	box 21
NASA advisory council study of effective shuttle utilization, 1983	box 21
Captioned photographs showing astronauts, lunar surface, and Earth in space, approximately 1960s	box 21
Photographs and articles regarding ComSat, 1972	box 21
Hughes engineers Wooldridge and Ramo on cover of Time Magazine, 1957 April 29	box 21
Weapon System Development Laboratories correspondence, 1950-1955	box 21

Physical Description: 2 Files

Space and Communication Group correspondence, flight data and analysis, 1977	box 21
"Linear Homing Navigation", undated	box 21
"Problems of Surface Exploration of the Moon and the Planets" panel discussion, 1961	box 21
Surveyor T-2 test vehicle failure review report, 1963-1964	box 21
"Productivity Measurement Remarks to Senior Management Conference", 1983	box 21
GM ABS design review report, 1986	box 21
Technology Centers drink coaster, undated	box 21

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## 2021 addition, approximately 1954 to 2021

Physical Description: 5.48 Cubic Feet (8 boxes, 1 oversized box)

Physical Description: 6.00 Linear Feet

Physical Description: 1 Websites (0.209 GB) WARC

Physical Description: 4 Digital Files (1.540 GB) M4V

Scope and Contents Note: The 2021 addition series (approximately 1954-2021) primarily contains records and publications on the Surveyor program and other aerospace research programs of Hughes Aircraft Company (HAC). This series also includes records from Warren E. Mathews who served as Director of Product Effectiveness at HAC. The materials from Mathews includes information on HAC's history and organization, interdepartmental correspondence, files on program management, as well as Mathews' personal correspondence and biography. This series also includes recordings of the Peninsula Seniors lecture series on the history of HAC and an archived version of *Our Space Heritage 1960-2000* blog which provided a forum for former employees to contribute personal memories of their experiences working at HAC as a way of recording and preserving the company's history.

Arrangement: Materials remain as they were received.

Title/Description	Containers
Dr. Warren Mathews: The Personality and Management Orientation of Hughes Aircraft Company, 2011 Physical Description: 1 Digital Files (0.193 GB) M4V	digital file 00
Peninsula Seniors lecture series "Out & About: Hughes Aircraft Co. History, Parts 1-4", 2011 Physical Description: 3 Digital Files (1.360 GB) M4V	digital file 00
Maverick Missile, Warren E. Mathews commemorative paperweights, approximately 1972 to 1986	box 31
Communications satellite files (research, reports, communication), approximately 1959 to 1994	box 25
Warren E. Mathews professional and personal files (HAC organizational history, research, program management), approximately 1954 to 2015	box 24

box 25

box 26

box 27

box 28

oversized

box 32

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Surveyor Missions reports and research files, 1965 to 1972

box 29

box 30

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HAC review and employment booklets for employees, research and development overview reports, approximately 1970 to 1986

box 28

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Our Space Heritage 1960-2000: archived website, 2021 (2587203) ([view online](#))

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