

University of Houston Clear Lake

Archives and Special Collections

HSF-67 John D. Holt Papers

[Human Space Flight Collection]

Collection Number: HSF-67

Title: John D. Holt Papers

Dates: 1965-2010

Creator: John D. Holt

Abstract

The John D. Holt Papers include charters, correspondence, directories, handbooks, manuals, handouts, memorandums, training materials, presentations, photographs, organizational charts, reports, newsletters, budgets, CD discs, promotional materials, and miscellaneous materials, documenting the professional career of John D. Holt at NASA Johnson Space Center (JSC) in coastal Houston, Texas. Holt worked at NASA from 1967 to 2001. Holt worked as a NASA contractor for several aerospace companies after his retirement until 2010. He would serve at JSC as a branch chief of Guidance and Propulsion Systems in the Systems Division of the Mission Operations Directorate (MOD); Branch Chief of Payload and Operations Support Branch; Chief of the Production Integration Management Office; and a series of management positions for the Space Shuttle Program.

Extent: approximately 9.38 linear feet

Language: English

Repository

University of Houston-Clear Lake Archives and Special Collections, Alfred R. Neumann Library, 2700 Bay Area Blvd., Houston, TX 77058-1002

Restrictions on Access

There are no restrictions on accessing this collection.

Restrictions on Use

There are no known restrictions on using this collection. Some of the materials in this collection containing engineering and technical data may be restricted by United States' International

Traffic in Arms Regulations (ITAR) and cannot be made available online by researchers or the University of Houston-Clear Lake. Researchers are encouraged to contact NASA or the appropriate U.S. federal agency responsible for reviewing ITAR compliance before considering projects involving digitization or sharing online copies of any of the materials in this collection—as these actions may be a major violation of federal law.

Preferred Citation

[Item name or title], [Box Numbers], [Folder Numbers], John D. Holt Papers, HSF-67, University of Houston-Clear Lake Archives and Special Collections, Alfred R. Neumann Library, 2700 Bay Area Blvd., Houston, TX 77058-1002

Acquisition

The collection was donated to the University of Houston-Clear Lake Archives and Special Collections by John D. Holt of Houston, Texas, in October 2016.

Accruals: No future accruals are expected.

Technical Access

The “Series VIII: CD-ROMs” consists of 33 CD-ROMs that require a CD drive to access. Most of the information on these CD-ROMs is in the form of digital presentations, which can also be found as printouts in other parts of the collection. These CD-ROMs cannot be played or accessed by researchers on their personal computers or laptops. For details on accessing the contents of the CD discs, contact the UHCL Archives Associate Director or Archivist.

Notes

A reminder about abbreviations and/or acronyms: NASA and its associated organizations and contractors frequently use abbreviations. Many of the descriptions in the Collection Inventory contain abbreviations/acronyms defined in the following non-comprehensive list:

Apollo Telescope Mount (ATM)
Architectural Design Document (ADD)
Aerospace Technology (AST)
Approach and Landing Test (ALT)
Constellation Program (CxP)
Constellation Training Facility (CxTF)
Deorbit Only Mission (DOOM)
Flight Assignment Working Group (FAWG)
Hubble Robotic Vehicle (HRV)
Hubble Space Telescope (HST)
Hubble Space Telescope Robotic Servicing Deorbit Module (HRSDM)
Hubble Space Telescope Robotic Vehicle Deorbit Module (HRVDM)
Independent Program Assessment Office (IPAO)

Integrated Product Team (IPT)
International Space Station (ISS)
Introduction to Earned Value Management (EVM)
Mission Class Transition Review (MCTR)
Mission Control Center (MCC)
Mission Control Center System (MCCS)
Mission Operations (MO)
Mission Operations Directorate (MOD)
Mission Operations Project (MOP)
Modified Deorbit Module (MDM)
NASA Engineering and Safety Center (NESC)
National Contract Management Associations (NCMA)
National Space Transportation System (NSTS)
Preliminary Design Review (PDR)
Servicing Mission 4 (SM4)
Standing Review Board (SRB)
Space Station Freedom (SSF)
Space Station Program (SSP)
Space Support Equipment (SSE)
Space Transit System (STS)
Standard Operating Procedures (SOP)
Super Light Weight Interchangeable Carrier (SLIC)
System Definition Review (SDR)
Terms of Reference (TOR)
Work Breakdown Structure (WBS)

Processing Information

The collection was originally organized by an employee at NASA Johnson Space Center who worked for John Holt sometime before or after the records were donated to the UHCL Archives, as he conveyed to the UHCL Archives in 2022. The majority of the materials were organized in labeled folders in some order based on NASA work and projects. However, no notes were left by previous UHCL Archives staff or volunteers who worked on the collection to explain their work on the collection before it was fully processed. The processing archivist used the general order the collection was left in to arrange and describe it as the original order for the materials when processing was completed in 2023.

The collection did not have any preservation issues. A copy of Holt's resume, which he gave to the UHCL Archives while the collection was being arranged and described, can be found in a folder labeled as untitled and unnumbered at the front of Box 1. This folder precedes folder 1 in box 1 in this collection. In addition, a printed copy of the collection's finding aid is also available in an untitled and unnumbered folder at the front of Box 1. To adhere to UHCL Archives' processing standards, duplicate materials, non-historic materials such as JSC human resource memos, and other materials that did not match the UHCL Archives' collection policy were removed from the collection

Processed by: Robert Nañes and Matthew M. Peek, January-February 2023

Arrangement

The arrangement of the John D. Holt papers is based on his work history, which he provided during the processing of the collection. Therefore, the dates listed in Holt's work history correlate with the dates of the materials in his collection. The materials were arranged, therefore, based on NASA projects, programs, or formats within folders. The collection was organized into the following eight series and five subseries: Series I: Manuals, 1965-1997; Series II: NASA Engineering and Safety Center (NESC), 2005; Series III: Mission Operations Directorate (MOD), 1969-2002; Subseries IIIA: Skylab, 1974-1973; Subseries IIIB: Space Shuttle Training, 1974-1979; Subseries IIIC: Space Station Flight Management, 1993-2002; Subseries IIIE: Space Station Freedom, 1987-1993; Series IV: Hubble Space Telescope, 1996-2005; Series V: Miscellaneous Holt Contract Work Materials; Series V: NASA Contractors, 1971-2007; Series VII: Holt's Handwritten Notebooks, 1970-2001; and Series VIII: CD-ROMs, 2004-2009.

Biographical Note

John Dennis Holt (who goes by "Denny") was raised in Tennessee. He attended college at Tennessee Tech University in Cookeville, Tennessee, graduating in 1967 with a degree in mathematics. Holt planned after college to go work in Montana for the Anaconda Aluminum Company. NASA was interviewing for new engineers on college campuses around the United States, and came to Tennessee Tech. Holt interviewed with representatives from Kennedy Space Center in Florida, Marshall Space Flight Center in Alabama, and the Manned Spacecraft Center in Texas. Marshall passed on him, as they were looking for mechanical engineers. Kennedy never responded.

Eventually, Holt received four phone calls from different units at the Manned Spacecraft Center (MSC) in Houston, Texas. The unit that he was most interested in that called him was the Recovery Operations Branch of the Landing and Recovery Division, Flight Operations Directorate (FOD). The Branch personnel traveled the world studying and participating in spacecraft recovery operations for Apollo Program spacecraft. This was in preparation for the eventual Apollo 11 mission. Holt began working in 1967 at as an Aerospace Technician (AST) in the Recovery Operations Branch through the Apollo Program. He then worked in various roles within Flight Operations, including in the Space Science and Technology Branch and the Simulation Branch.

In 1976, Denny Holt was promoted to work in the Flight Training Branch of the Crew Training and Procedures Division, where he remained until 1980. He then became the Branch Chief of the Guidance and Propulsion Systems in the Systems Division, Mission Operations Directorate. He later served as the Branch Chief of Payload and Operations Support Branch in the Operations Division of the MOD during the Space Shuttle Program operations at now Johnson Space Center. Holt also became the Chief of the Production Integration Management Office in Mission Operations.

In 1988, Holt was promoted to the position of Manager of the Operations Integration Office, Space Station Projects Office. He later served as the Manager of the Project Integration Office, Space Station Projects Office; and as the Flight Manager of the Space Shuttle Systems and Operations Integration Office in the Space Shuttle Program. He then served as the Flight Manager of the Space Shuttle Program Integration from 1996 to 2001.

After he retired from NASA in 2001, Denny Holt continued to be active in the space industry. He was a consultant and senior advisor for various companies and organizations, such as MDA US Systems, and 4-Dimensional Systems. Holt also served on various NASA review boards, including the NASA Constellation Program Mission Operations Project Standing Review Board; NASA HST Servicing Mission 4 Review Board; and Space Shuttle Program—International Space Station Program Standing Review Board.

Holt continued service to NASA Johnson Space Center as the Chairman of the NASA HST Deorbit/Robotic Servicing Review Team; member of the NASA Hubble Space Telescope Servicing Mission Review Team; and member of the NASA Hubble Space Telescope Robotic Servicing and Deorbit Mission Independent Review Team. Holt has also been an instructor for the NASA Engineering Safety Center Academy, and a Senior Advisor to Texas Engineering Experiment Station at Texas A&M University. Holt serves in leadership roles with the NASA Alumni League, Johnson Space Center Chapter, in coastal Houston. At the time of this writing, Holt was living in Houston, Texas.

Scope and Content

The collection includes charters, correspondence, directories, handbooks, manuals, handouts, memorandums, training materials, presentations, photographs, organizational charts, reports, newsletters, budgets, CD discs, promotional materials, and miscellaneous materials, documenting the professional career of John D. Holt at NASA Johnson Space Center (JSC) in coastal Houston, Texas. Holt worked at NASA from 1967 to 2001. Holt worked as a NASA contractor for several aerospace companies after his retirement until 2010. He would serve at JSC as a branch chief of Guidance and Propulsion Systems in the Systems Division of the Mission Operations Directorate (MOD); Branch Chief of Payload and Operations Support Branch; Chief of the Production Integration Management Office; and a series of management positions for the Space Shuttle Program.

The materials in the collection date from 1965 to 2010 and cover Holt's entire career and work beyond NASA. As a result, Holt's papers provide valuable insights into his professional career and the history of space exploration and technology development. The collection is arranged in the following series: Series I: Manuals, 1965-1997; Series II: NASA Engineering and Safety Center (NESC), 2005; Series III: Mission Operations Directorate (MOD), 1969-2002; Subseries IIIA: Skylab, 1974-1973; Subseries IIIB: Space Shuttle Training, 1974-1979; Subseries IIIC: Space Station Flight Management, 1993-2002; Subseries IIIE: Space Station Freedom, 1987-1993; Series IV: Hubble Space Telescope, 1996-2005; Series V: Miscellaneous Holt Contract Work Materials; Series V: NASA Contractors, 1971-2007; Series VII: Holt's Handwritten Notebooks, 1970-2001; and Series VIII: CD-ROMs, 2004-2009.

Subject Terms

Personal/Family Name

Holt, John D. (John Dennis)

Corporate Names

United States. National Aeronautics and Space Administration
Lyndon B. Johnson Space Center

Geographic Name

Clear Lake (Galveston County and Harris County, Tex.)
Houston (Tex.)

Topical Term

Apollo Soyuz Test Project
Hubble Space Telescope
International Space Station
Manned space flight
NASA Engineering and Safety Center
Skylab Program
Space shuttles
Space Station Freedom Program (U.S.)
Space Station Program (U.S.)

Genre/Physical Characteristic

Budgets
CD-ROMs
Charters
Correspondence
Directories
Electronic mail
Handbooks
Interviews
Manuals
Memorandums
Newsletters
Notes
Organizational charts
Photographs
Press Releases
Presentations

Proposals
 Promotional materials
 Reports
 Summaries
 Transcripts

Collection Inventory

Series I: Manuals 1965-1997

Subseries I contain manuals from NASA and NASA contractors accumulated during Denny Holt's career, some of which he used for various NASA programs.

Box/Folder	Description	Date
1/1	Manual: Aerodynamics for Naval Aviators	January 1965
1/2	Manuals: Introduction to Orbital Mechanics and Rendezvous Techniques 1 and 2	November 1969
1/3	Manuals: Principles of Flight— Programmed Text	December 1971
1/4	Manuals: Stability and Control 1 and 2	December 1971
1/5	Manuals: High-Speed Aerodynamics Part 1 and 2— Programmed Text	December 1971
1/6	Manuals: Airplane Performance—Programmed Text	December 1971
1/7	Manuals: Aerodynamics for Fighter Pilots Approach — Programmed Text	December 1971
1/8	Manuals: Aerodynamics for the Fighter Pilot Landing 1 and 2—Programmed Text	December 1971
1/9	Manuals: Aircraft Flight Testing Pat II: Aircraft Control Lateral/Directional Control /Stability and Central	April 30, 1973
2/1	Presentation: Space Shuttle V T.R. Orientation Illustrations	January 1974
2/2	Manuals: FEI 170: International and Misc. Subject Matter Handouts	1990
2/3	Handouts: FEI 170 Media Subject Matter Handouts	Undated

2/4	Manned Spaceflight Engineer Handbooks	May 1983
2/5	Manual for Russia Cross-Cultural Training	February 14-17, 1995
2/6	Manual for Japanese Cross-Cultural Training	1998
2/7	FEI-170 Program Participants and Course Information	1990
2/8	Senior Managers Training Course	1996
3/1	Managing Safety Systems That Work for Operations: Dupont	1997

Series II: NASA Engineering and Safety Center (NESC)

Series II contains handouts, training materials, presentations, reports, and transcripts from NESC accumulated during Holt's work fact-checking and consulting on instructional materials. The NASA Engineering and Safety Center (NESC) is an independent organization that provides technical expertise and support to NASA's space programs. The NESC was established in 2003 to provide an independent review and analysis of NASA's engineering and safety practices. The NESC's team of experts includes risk assessments, technical reviews, testing and analysis, and training and education. The NESC's work helps to ensure that NASA programs are safe, reliable, and efficient and meet the agency's rigorous engineering and safety standards.

Box/Folder	Description	Date
3/2	NESC Space Propulsion System: Transcript of Interviews with George Hopson	2005
3/3	Interview Meeting Transcripts with George Hopson	September 2005
3/4	NESC Academy: Space Propulsion System: Participants Manual	October 2005
3/5	NESC Academy Space Propulsion systems Instructors Guide (1)	October 2005
3/6	NESC Space Propulsions Systems: Lesson 2 Saturn	September 2005
4/1	NESC: Lesson 3: Major Space Shuttle Main Engine (SSME incidents)	Undated
4/2	NESC Space Propulsion System Lesson 3: Space Shuttle Main Engine	Undated

4/3	NESC Space Propulsion Systems Lesson 5: Advanced Propulsion—Mission to Mars	2005
4/4	Observations on the 1st NESC Academy Propulsion Course—Denny Holt	Undated

Series III: Mission Operations Directorate (MOD)

Series III is composed of materials documenting Denny Holt’s time working in or with the Mission Operations Directorate (MOD). The series is arranged in the following subseries based on NASA programs or Johnson Space Center work that Holt participated in: Subseries IIIA: Skylab 1973-1974; Subseries IIIB: Space Shuttle Training 1974-1979; Subseries IIIC: Space Station Flight Management 1993-2002.

Holt participated in several projects and various roles as a member of Mission Operations, including Technical Assistant to the Director of Mission Operations; Manager of Production Management Integration Office; Chief of Payload Operations Branch, Operations Division; Chief of Guidance and Propulsion Systems Branch, Systems Division; Head of Propulsion Systems Section; Space Shuttle Training Lead; Flight Controller for Apollo and Skylab; and Apollo Landing and Recovery Specialist.

The Mission Operations Directorate at NASA Johnson Space Center took charge of the complete process of space missions for both humans and robots, from initial design to the final decommissioning, including planning and execution. It was responsible for managing the flight control systems that work spacecraft and space missions and trains flight controllers and other support staff. The MOD was in charge of various aspects of space mission planning and execution, which includes scheduling, operations, communications, and contingency planning. Additionally, the MOD supported other divisions within NASA and external partners.

Subseries IIIA: Skylab

Subseries IIIA contains handouts, memorandums, training materials, presentations, photographs, reports, and promotional materials related to Skylab accumulated during Denny Holt’s time working as Flight Controller for Apollo and Skylab Programs. NASA’s flight controllers monitored and managed spacecraft during a space mission. They worked in teams and monitor the spacecraft’s systems, crew, and safety. Then, they made decisions in real-time in case of an emergency.

Skylab was a space station that the United States operated from 1973 to 1979, and was the first space station built by the United States. The station’s purpose was to conduct scientific experiments in a microgravity environment. Astronauts who boarded the station researched solar astronomy, space medicine, and materials science. Skylab had a workshop, a solar observatory, and a multiple docking adapter that allowed for the docking of visiting spacecraft. In 1979, Skylab re-entered the Earth’s atmosphere, and its debris fell to the Earth after completing its mission. Most of the materials in this subseries date from 1969 to 1974.

Box/Folder	Description	Date
4/5	Memos and Information Regarding Skylab experiment SO55	1969-1973
4/6	MCC Overview Programmed (S.P.) Text	May 15, 1969
4/7	Internal NASA Memos regarding the Skylab Apollo Telescope Mount (ATM)	1969, 1970
4/8	Skylab Pointing Information	1971
4/9	Maps Status Biomed/ATM Hands-on	1972
4/10	Transit of Mercury Across the Sun	1973
4/11	Skylab Operations and Training -MISC Information N1973	1973
4/12	Skylab Experience Reports and Memos	1974
4/13	Skylab 20th anniversary	May 14, 1993

Subseries IIIB: Space Shuttle Training

Subseries IIIB contains manuals, handouts, memorandums, notes, presentations, and reports, related to Space Shuttle Training accumulated during Denny Holt's time working as a Space Shuttle Training Lead. Additionally, it contains Holt's copy of the OFT Flight Rules Basic from November 7, 1980, which details the procedures for the launch of STS-1, the first Space Shuttle orbiter launch in NASA history. A Space Shuttle Training Lead was responsible for creating and managing training programs for astronauts preparing for Space Shuttle missions. They worked closely with the Astronaut Office to develop training programs that cover various challenges related to space travel, like operating Space Shuttle systems and conducting scientific experiments. They also provided support throughout the training and spaceflight and work towards developing training programs for new spacecraft and mission concepts.

The subseries includes memos on STS-0, which was not an actual spaceflight mission but was a series of ground tests conducted in 1979 as part of the Space Shuttle program. The tests involved firing the Space Shuttle Columbia's engines while it was held down on the launch pad, to ensure the Shuttle's propulsion system was ready and could withstand the stresses of launch. The subseries also includes information and reports related to the Approach and Landing Test (ALT), which was a series of test flights conducted by NASA in 1977 to evaluate the Space Shuttle orbiter's ability to fly and land as a glider. The ALT program consisted of five flights that tested different aspects of the Space Shuttle's flight and landing capabilities. The results of the tests were used to refine the Space Shuttle's design and flight procedures and helped pave the way for the first orbital flight of the Space Shuttle in 1981. Holt's documents on this test program are unique records about the many steps in the development of the Space Shuttle Program.

Box/Folder	Description	Date
4/14	Flight Operations Directorate (FOD) Organization	1974-1978
4/15	ALT Simulation Data and Information	1975-1977
5/1	ALT Post Training Reports	1977-1978
5/2	OFT FAM Training Report (Inputs and Final)	1978
5/3	STS-1 Training	1978-1980
5/4	Presentation: 24-Hour Simulation Implementation; Holt	January 1979
5/5	STS-0 Memos	1979
5/6	Memo (80-208) Comment on 30-Hour Integrated Simulation	February 5, 1980
5/7	First 56 Hour Simulation; Shuttle	April 22, 1980
5/8	JSC-12820 OFT Flight Rules Basic	November 7, 1980
5/9	1980's Desktop Pad Sheet (folded) with Contracts Lists and Notes	circa 1980
5/10	STS-1 Prop Redline Redlines and Thermal Plan	1979-1981
5/11	Shuttle Training Memos	1981-1983

Subseries IIC: Space Shuttle Flight Management

Subseries IIC contains memorandums, notes, organizational charts, presentations, and reports related to Space Shuttle Flight Management accumulated during Denny Holt's time working in various leadership roles from 1982 to 2001, including as the Chief of the Guidance and Propulsion Systems Branch; Head of the Propulsion Systems Section; and Manager of the Space Shuttle Flight program. The Chief of Guidance and Propulsion Systems Branch managed developing and testing guidance and propulsion systems for space missions. They led a team of engineers and collaborated with other NASA divisions and external partners.

The Head of the Propulsion Systems Section was responsible for managing the design, development, and testing of propulsion systems for space missions. They led a team of engineers and work with other NASA divisions and external partners to ensure propulsion systems are safe, efficient, and aligned with NASA's goals and may work on developing new propulsion

technologies. The Space Shuttle Flight Manager was responsible for overseeing Space Shuttle missions, managing the team of flight controllers, and working as the primary point of contact between the crew and Mission Control. The position made critical decisions during the mission and work with other personnel to ensure that mission objectives are met. In addition, the role included coordinating contingency planning and ensuring compliance with NASA's safety and operational standards.

Generally speaking, the subseries has materials that Holt used in the daily operations for the various positions he held at Johnson Space Center. Subseries IIIC notably contains several documents related to the Space Shuttle *Challenger* disaster (STS-51-L), documenting the steps taken after the disaster concerning the Space Program.

Box/Folder	Description	Date
5/12	JSC and Systems Division Organizational Charts	1982-1983
5/13	Systems Division OPS Concepts	1982
5/14	Mature Operations Division Support (original Red and Black Ink)	1982
6/1	Systems Division OPS Concepts	1982
6/2	Shuttle Operations Presentations	1983
6/3	Notes, Memorandums, Data, and Meeting Minutes Regarding Shuttle Flight Operations	1980, 1982, 1983
6/4	Payload Operations Support Branch Management Transition Miscellaneous Information	1984
6/5	Space Shuttle Payload Design and Development: Executive Overview	1984
6/6	Operations Splinter Session	1984
6/7	Challenger Accident Actions to Implement Executive Summary	July 14, 1986
6/8	Announcement of the Presidential Commission Investigating the STS-51-L Accident (Challenger Accident)	February 1986
6/9	Final Report of the STS Safety Risk Assessment AD-HOC Committee	August 8, 1987

6/10	NSTS-20052 Vol.12 Revision E Shuttle Payload Design and Development: Executive Overview for Space Station Freedom	1988
6/11	Space Station Program (SSP) Integrated Program Team	1996
6/12	Space Shuttle Program Management Retreat	1993
6/13	Space Shuttle Program Retreat	1994
6/14	Space Shuttle Integration and Operations Functional Assessment	March 10, 1994
7/1	Space Shuttle Program Flight Manager and Flight Specific Integrated Product Team	1993, 1994
7/2	Presentation: STS-96 Flight Readiness Review	May 5, 1999
7/3	NSTS-37409: STS-78 Space Shuttle Mission Report	August 1996
7/4	STS-97 and ISS Planning Materials	1997
7/5	Presentation: STS-97 Cargo Integration Review; Russ Baker	August 18-21, 1998
7/6	STS-97 ISS -04-04A Cargo Integration Review (CIR) Introduction; Leroy Reichert	August 1998
7/7	Presentation: STS-97 for ISS	August 1998
7/8	Space Shuttle Processing Templates	1997
7/9	Miscellaneous Information: Space Shuttle Program Flight Management and Integrated Products Team	1997
7/10	Space Shuttle Configuration Control Partial Documents	1997
7/11	Mission Labor Hours Model Report	November 23, 1998
7/12	Memorandum: Massive Public Engagement in Space Exploration	November 16, 1998
7/13	Report: Extending the Reach of the Space Station	April 9, 2001
7/14	Presentations: Mission Manager Concept	October 15, 1993

7/15	Benchmarking Assessment of Program Management Implementation Practices	June 30, 1999
7/16	ISS/Payloads Processing Directorate (KSC?)	April 4, 2000
7/17	Presentations: Program Integration Flight Readiness Reviews SB-100 USA/Boeing	March 23, 2001
8/1	Presentations: STS-100 (ISS-6A) Flight Readiness Review	April 5, 2001
8/2	STS-109 Lessons Learned	May 2, 2002

Series IV: Space Station Freedom

Subseries IV contains memorandums, notes, photographs, presentations, proposals, reports, and miscellaneous materials, related to Space Station Freedom accumulated during Denny Holt's time working in the Space Station Freedom Projects Office. The Space Station Freedom Projects Office (SSFPO) at Johnson Space Center managed the Space Station Freedom program, which was planning to construct a permanently crewed Earth-orbiting space station in response to the Russians' MIR space station. It was to be assembled by Space Shuttle flights and featured living quarters, labs, and workshops. Space Station Freedom was eventually integrated into the International Space Station (ISS) program, a joint project by multiple countries. As a result, many design concepts and technologies were carried over into the ISS, which has been in operation since the late 1990s.

A number of materials documenting the planning phase for Space Station Freedom, as well as miscellaneous promotional documents for the new program. There are some of the first organizational materials, such as organizational charts and directories created for the Space Station Freedom Project Office.

Box/Folder	Description	Date
8/3	Week at a Glance Day-Planner	1987
8/4	Student Space Station: A Brief Plan (Proposal)	June 1987
8/5	Space Station Operations Taskforce Panel 4 Report: Management Integration	December 1987
8/6	NASA's Manned Space Programs: A Planner's Review	December 1987
8/7	JSC Strategic Plans	1997, 1998
8/8	Space Station Freedom (SSF) Org-Charts and Directories	1986, 1986, 1992

8/9	Space Station Freedom (SSF) the Gateway to Space — The Space Station Program	April 1991
8/10	Space Station Freedom the Gateway to Space— Space Station Freedom: Program Plan	1991
8/11	Revision B. Standard Operating Procedures (SOP) Flight Manager and Flight Specific Integrated Product Team (IPT) Responsibilities	March 9, 2000
8/12	Space Station Freedom External Maintenance	September 6, 1991
8/13	Space Station Freedom Program Office and NASA H.Q. Directories	1991, 1992
8/14	KC Space Station Freedom Assessment	April 2, 1992
8/15	US/Russia Agreement Press Release	September 2, 1993
8/16	The Firing of John Aaron	1993
8/17	Public Support for the U.S. Space Program	1993
9/1	Alpha Freedom Station: Transition Control Board	October 14, 1993
9/2	Opinion Paper Space Station Freedom: Yes or No	1986, undated
9/3	Parts 1, 2, and 3 Scenario Charts for Manned Base Users	Undated
9/4	Photograph: Cover Photo Page – Space Station Freedom Center Management Review (CMASR)	Undated

Series V: Hubble Space Telescope

Subseries V contains correspondence, memorandums, notes, presentations, reports, promotional materials, related to the operations of the Hubble Space Telescope accumulated during Denny Holt's time working as the Mission Director for the third Hubble Space Telescope servicing mission between 1999 and 2002. The Mission Director for the third Hubble Space Telescope servicing mission oversaw all aspects of the mission, including planning, development, and execution. The Hubble Space Telescope was a large observatory that had been in operation since 1990. It was designed to study the universe from low Earth orbit, free from atmospheric distortion.

The Hubble Space Telescope Robotic Vehicle Deorbit Module (HRVDM) was designed to safely deorbit the Hubble Space Telescope at the end of its mission. It would have attached to the

telescope and used its propulsion system to bring it down to Earth to burn up in the atmosphere. The module was proposed in the early 2000s as a contingency plan in case the Space Shuttle could no longer service the telescope. However, since the Shuttle could continue servicing the telescope until its proposed end in 2018, the HRVDM was never used. Instead, the telescope continues to orbit the Earth today and is expected to do so for several more years before it needs to be deorbited. The Super Lightweight Interchangeable Carrier (SLIC) was a payload carrier used on the Space Shuttle to carry scientific instruments and experiments in the Shuttle's payload bay. The series includes memos and planning documents used and/or created By Holt during the servicing missions and planning for the future of the Hubble Space Telescope.

Box/Folder	Description	Date
9/5	Hubble Space Telescope Level 1 Requirements: STR-78	February 29, 1996; April 2, 2002
9/6	Hubble Space Telescope SM-3A Center Directors Quarterly Reviews	1996, 1999, 2001
9/7	Hubble Space Telescope Report of the Independent Annual Review	September 29, 2001
9/8	Email Response: Interim Report of Servicing Strategies Group	October 2, 2001
9/9	Super Light Weight Interchangeable Carrier (SLIC)	2002
9/10	Presentation: Status of Development (SLIC) ISS Avionics and Pallet	January 15, 2002
9/11	Hubble Space Telescope: Independent Review Team Task Statement and Program Commitment Agreement;	October 26, 1999; April 2002
9/12	TOR Draft and Comments	July 2002
9/13	Terms of Reference – Independent Review Team for the Hubble Space Telescope Program	July 3, 2002
9/14	Memorandum: Hubble Space Telescope Independent Review Team – Team Independence	July 3, 2002
9/15	Hubble Space Telescope Top Ten Problem	July 11, 2002
9/16	Hubble Space Telescope (HST) Program Operations Plan	July 23, 2002
9/17	Minutes from Hubble Space Telescope, Independent	July 2002

Review Team

9/18	Presentation: Office of Space Flight and Space Station	1993
9/19	Shuttle-Station Integration	1993
9/20	Hubble Space Telescope Orbit Status Report	1996, 1999, 2002
9/21	Hubble Space Telescope Independent Review Team Planning Schedule and Cost Analysis Request	August 2002
9/22	Presentation: WFC3 Independent Review Team Briefing	September 24, 2002
9/23	EVA HST (Hubble Space Telescope) Training Requirements	September 27, 2002
9/24	Hubble Space Telescope Independent Review Team Actions and Status	2002
9/25	Presentation: Hubble Space Telescope Monthly Status Review	October 2002
10/1	Hubble Space Telescope IRT Report HST Program Review	October 28, 2002
10/2	Hubble Space Telescope Program	October 2002
10/3	Email and Herts Roam Map	October 2002
10/4	Independent review Team Requested SM4 Schedule Charts	September 26, 2002
10/5	Flight Assignment Working Group (FAWG)	November 13, 2003
10/6	Hubble Space Telescope IRT Action Items with Response	September 2002
10/7	IRT Action Items Number IRT 03-017	Undated
10/8	Hubble Space Telescope Review	March 11, 2003
10/9	Presentation: Hubble Space Telescope Development Project HST Hardware System Status, Tom Griffin	March 11, 2002
10/10	Presentation Hubble Space Telescope Development Project: Instruments Status	March 11, 2003

10/11	Hubble Space Telescope ORT Review Planning Manifest and Timeline	March 11, 2003
10/12	Hubble Space Telescope End of Mission Plan	February 14, 2003
10/13	Hubble Space Telescope Development Project—9-Month Launch Delay	March 11, 2003
10/14	Hubble Space Telescope IRT Reviews Resources Management and EPMC	March 11, 2003
10/15	Hubble Space Telescope IRD Reviews References	1993, 1999, 2001, 2002, 2003
10/16	Hubble Fact Sheets	August 12, 2003
10/17	Presentation: Super Lightweight Interchangeable Carrier (SLIC) Pallet	March 12, 2003
11/1	Hubble Space Telescope Propulsion Module Correspondence	April 31, 2003
11/2	Presentation: Hubble Space Telescope SM4 Space Support Equipment (SSE) CDR Vol 1 of 2	March 2003
11/3	Presentation: Hubble Space Telescope SM4 Space Support Equipment (SSE) CDR Vol 2 of 2	March 13-14, 2003
11/4	HST Reliability Projectors for Rake Gyroscope Assembly RGA and Batteries	August 7, 2003
11/5	Independent Review Team-Agenda, POP Compare, SLIC Schedule	September 9-10, 2003
11/6	Email Correspondence Related to HST	August-September 2003
11/7	Independent Review Team-Issues/Actions	September 2003
11/8	Presentation: Deorbit Stage Level 1 Requirements	September 2003
11/9	Hubble Space Telescope Independent Review Team Schedule Analysis	September 2003
11/10	Presentation: Independent Review Team Reliability Trade	October 2003

11/11	Hubble Space Telescope (HST) EOM (End of Mission) Space Transportation System (STS) Launched Disposal Propulsion Module Feasibility Study Results	September 17, 2003
11/12	Hubble Space Telescope on Orbit Unverified Failure	September 8, 2003
11/13	Hubble Space Telescope Service Mission 4 Independent Review Team	September 9-10, 2002
11/14	Presentation: Hubble Space Telescope Service Mission 4 Common Drive Unit Acceptance	October 2003
11/15	Express Pallet Memorandum of Agreement with the International Space Station and Goddard Space Flight Center	November 2003
11/16	Hubble Space Telescope Service Mission 4 Resources Management Plan	November 2003
11/17	Email Correspondence Related to the Hubble Space Telescope and Batteries	November 2003
11/18	Presentation: Hubble Space Telescope Service Mission 4 Objectives	November 12, 2003
11/19	Presentation: Hubble Space Telescope Independent Implementation Review Report	November 19, 2003
11/20	Presentation: Hubble Space Telescope Program Independent Implementation Review Report	December 1, 2003
11/21	Memorandum: Hubble Space Telescope Independent Review Team Report to Enterprise Program Management Counsel	December 3, 2003
12/1	Hubble Space Telescope Service Mission 4 Independent Review Team Action Summary—Open Actions	November 5, 2003
12/2	Presentation: Hubble Space Telescope Program Independent Implementation Review Report	December 3, 2003
12/3	Hubble Space Telescope Robot Servicing Deorbit Mission System Requirements Reviewed	November 2004, January 2005

12/4	Report: Re-Entry Survivability Analysis of the Hubble Space Telescope	May 2004
12/5	Technical Consultation of the Hubble Space Telescope Nickel Hydrogen Battery Charge Capacity Prediction	June 17, 2004
12/6	Memorandum: Results of the Hubble Space Telescope Robotic Servicing Mission Concept Overview	May 27, 2004
12/7	Presentations: Hubble Space Telescope Program Robotic Servicing Mission Independent Cost Estimate	July 14, 2004
12/8	Color Presentation: Hubble Space telescope Servicing Mission Project	July 15, 2004
12/9	Presentation: Hubble Space Telescope Robotic Servicing Mission Project (Annotated)	July 15, 2009
12/10	Coordinating Draft Document for Extravehicular Robotic Servicing Mission	July 13, 2004
12/11	Presentation: Hubble Space telescope Robotic Servicing Mission Project Goddard Space Flight Center	July 20, 2004
12/12	Color Presentation: Hubble Space Telescope Robotic Servicing Mission Project	July 26, 2004
12/13	Presentation: Hubble Space Telescope Robotic Servicing Mission Project	July 26, 2004
12/14	Presentation: Hubble Space Flight Telescope Program Response to the Independent Program Assessment Office Hubble Space Telescope Review Team Findings, by Preston M Burch	July 26, 2004
12/15	Robotic Tasks and Tools (1 of 4) Update (HRT)	July 26, 2004
12/16	Hubble Space Telescope Robotic Vehicle Deorbit Module—Question and Answer; Hubble Space Telescope Review Team Review; Independent Review Team Rescheduling Email Chain	2004, undated
12/17	Memorandum, Notes, and Findings on Hubble Space Telescope Robotic Vehicle Deorbit Module (HRVDM); Hubble Space Telescope (HST) Executive Summary	2004, 2005

12/18	Memorandum: Hubble Space Telescope Budget Fiscal Year 2006	2006
12/19	Memorandum, Notes, Reports, Presentations, Emails, and Comments on: Hubble Space Telescope Robotic Vehicle Deorbit Module (HRVDM); Hubble Space Telescope (HST); Modified Deorbit Module (MDM); Deorbit Only Mission (DOOM)	February-April 2005
12/20	Presentation: Hubble Space Telescope Robotic Servicing Deorbit Module (HRSDM) Robot system Preliminary Design Review (PDR) Introduction (1 of 2)	March 1, 2005
13/1	Presentation: Hubble Space Telescope Robotic Servicing Deorbit Module (HRSDM) Robot System Preliminary Design Review (PDR) Vision (2 of 2)	March 1, 2005
13/2	Presentation Hubble Space Telescope Program Hubble Robotic Vehicle (HRV) Tool and Stowage System Preliminary Design Review (PDR) Peer Review: Robotic Systems Tools and Stowage System Preliminary Design Review (PDR) Peer review	March 2-3, 2005
13/3	Presentations: Planning Preliminary Design Review (PDR) and Analysis of the Hubble Space Telescope Robotic Servicing Deorbit Module (HRSDM) Day 1 (1 of 2)	March 21, 2005
13/4	Presentations: Planning Preliminary Design Review (PDR) and Analysis of Hubble Space Telescope Robotic Servicing Deorbit Module (HRSDM) Day 1 (2 of 2)	March 21, 2005
13/5	Presentations: Planning Preliminary Design Review (PDR) and Analysis of Hubble Space Telescope Robotic Servicing Deorbit Module (HRSDM) Day 2 (1 of 2)	March 22, 2005
14/1	Presentations: Planning Preliminary Design Review (PDR) and Analysis of Hubble Space Telescope Robotic Servicing Deorbit Module (HRSDM) Day 2 (2 of 2)	March 22, 2005
14/2	Presentations: Planning Preliminary Design Review (PDR) and Analysis of Hubble Space Telescope Robotic Servicing Deorbit Module (HRSDM) Day 3 (1 of 2)	March 23, 2005

14/3	Presentations: Planning Preliminary Design Review (PDR) and Analysis of Hubble Space Telescope Robotic Servicing Deorbit Module (HRSDM) Day 1 (2 of 2)	March 23, 2005
14/4	Presentations: Planning Preliminary Design Review (PDR) and Analysis of the Hubble Space Telescope Robotic Servicing Deorbit Module (HRSDM)	March 24, 2005
14/5	Presentation: Hubble Space Telescope Robotic Servicing Deorbit Module (HRSDM) Preliminary Design Review (PDR) Backup Charts	March 21-25, 2005
14/6	Presentation: Modified Deorbit Module (MDM) Concept Overview (Annotated)	March 25, 2005
14/7	Presentation: Plan for Implementing a Hubble Deorbit Mission Modified Deorbit Module (MDM) (Annotated)	March 14, 2005
14/8	Presentation: Hubble Robotic Servicing and Deorbit Mission—Executive Summary	March 23, 2005
14/9	Printed Spreadsheet and Presentation Excerpts: Hubble Space Telescope Robotic Servicing Deorbit Module (HRSDM) Findings and Issues	March 17, 2005; April 1, 2005
15/1	Presentations: Drafts for the Hubble Space Telescope Robotic Servicing Deorbit Module (HRSDM) and the Hubble Space Telescope (HST) Deorbit Mission	March 2005, April 2005
15/2	Presentation: Hubble Space Telescope Robotic Servicing Deorbit Module (HRSDM) Project Hubble Space Telescope (HST) Team Report Final Draft	April 2005
15/3	Presentation: Hubble Space Telescope (HST) Program Response to Independent Program Assessment Office (IPAO) Hubble Space Telescope (HST) Review Team Findings	April 21, 2004
15/4	Presentation: Hubble Space Telescope (HST) Program Options and Recommendation to NASA Head Quarters	April 22, 2005
15/5	Presentation and Review of Hubble Space Telescope Robotic Servicing Deorbit Module (HRSDM) Review	June 18, 2005

Team Historical Perspective, By Denny Holt

15/6 Memorandum: Hubble Space Telescope (HST)
10th Anniversary

March 20, 2000

Series VI: Miscellaneous Holt Contract Work Materials

Series VI is composed of charters, correspondences, memorandums, notes, presentations, and reports, documenting the consulting and contract work that Denny Holt was involved in as a member of different NASA-connected groups and review boards after his retirement in 2001 through his permanent retirement from the industry in 2010. The materials illustrate his time as a member of the Space Shuttle Program-International Space Station Program Standing Review Board (SSP-ISSP SRB) at SAIC; a member of the NASA HST Servicing Mission 4 Review Board at SAIC; a member of the NASA Constellation Program Mission Operations Project Standing Review Board (CxP MOP SRB) at SAIC; and a Senior Advisor to Stinger Gaffarian Technologies (SGT), Inc. for the JSC Integrated Mission Operations Contract II proposal.

The Constellation Project (CxP) was a program initiated by NASA in 2004 to develop new spacecraft and launch vehicles for future human space exploration. It aimed to establish a permanent presence on the Moon and eventually send humans to Mars. The program included the development of the Orion spacecraft, and the Ares I and V rockets. However, the Constellation Project was canceled in 2010 due to budget constraints and technical issues. Instead, NASA shifted its focus to developing Space Launch System and Orion spacecraft for future deep space exploration. From 2006 to 2010, NASA's Mission Operations Project (MOP) managed and conducted space missions, including the Space Shuttle program responsible for delivering supplies to the ISS. The Project developed and executed mission plans, oversaw flight controllers, and managed scientific missions using robotic spacecraft. As a result, the Mission Operations Project was critical to the success of NASA's space missions during this period.

The Standing Review Board (SRB) is an advisory committee at NASA that provides independent assessments of projects and programs. The SRB comprises experts from various disciplines who review a project's technical and programmatic aspects, identify risks and provide recommendations for improvement. NASA uses the SRB's assessments to inform decision-making and ensure the success of its programs and projects. The series is composed of mainly presentations and documents given to or produced by Holt in his role as a consultant or contractor for these various NASA projects and NASA contractor SAIC.

Box/Folder	Description	Date
15/7	Presentation: Mission Control Center (MCC) Benchmarking Space Mission Command (SMC) Briefing	February 21, 2007
15/8	Presentation: Mission Operations Project (MOP) PPBE07Submit	March 23, 2007

15/9	Presentations: Constellation Standing Review Board (SRB)	March 2007
15/10	Presentation: Mission Operations Project (MOP) System Requirement Review Standing Review Assessment Briefing	2007
15/11	Presentation: Mission Control Center System (MCCS) Mission Concept Mission Class Transition Review (MCTR)	April 26, 2007
15/12	Presentation: Mission Operations Project (MOP) Standing Review Board (SRB)	August 2007
15/13	Notes and Presentations: Mission Operations Project (MOP) Standing Review Board (SRB)	October 2007
15/14	Mission Operations Project (MOP) Standing Review Board (SRB) Mission System Test and Verification	December 11, 2007
16/1	Presentations, Correspondence, Reports, and Charter Relating to Mission Operations Directorate (MOD), Mission Operations Project (MOP), and the Constellation Project	March-December 2007
16/2	Briefing Presentations and Risk Report for Mission Operations Project (MOP) and the Standing Review Board (SRB)	January 2008
16/3	Email Correspondence, Information Relating to the Mission System Review Board Meeting	December 2006
16/4	Email Correspondence and Other Information Related to Mission Operations Project (MOP) and Standing Review Board (SRB)	January 2008, February 2008
16/5	Mission Operations Project (MOP) Standing Review Board (SRB) Briefings and Presentations	February 2008
16/6	Mission Operations Project (MOP) and Control Board Charter	October 16, 2008
16/7	Mission Operations (MO) Independent Cost Estimate and Individual Member Report	May 2008, June 2008

16/8	Document Draft Version: Cxp72203 Baseline: Constellation Program Mission Operations Project (MOP) Mission Operations (MO) Architectural Design Document (ADD) Mission Class: Orion-TO-ISS pp. 1-562	Undated
16/9	Document Draft Version: CxP72203- Mission Operations Project (MOP) Mission Operations (MO) Architectural Design Document (ADD) Mission Class Orion to ISS pp. 303-562 Partial Duplicate	Undated
16/10	Document Draft Version: Cx72203; Bassline Constellation (Cx) Mission Operations Project (MOP) Mission Operations (MO) Architectural Design Document (ADD) 301-562 Partial Duplicate	Undated
16/11	Mission Operations Project (MOP) Constellation Contract and Mission Operations Project (MOP) Work Breakdown Structure (WSB) Dictionary-Presentation, Draft, Document and Email Correspondence	October 9, 2008; January 22, 2009; July 15, 2009
17/1	Presentation and Email Correspondence for the Constellation Training Facility (CxTF) and Systems Definition Review Kick-off	January 2009
17/2	Presentation and Commentary for the Constellation Training Facility (CxTF) and Systems Requirements Review (SRR)	May 2008, July 2008
17/3	Presentation for Mission Operations Directorate (MOD) Mission Operations Project (MOP) Preliminary Design Review (PDR) Day 1 (Introduction to Earned Value Management (EVM))	June 16-17, 2009
17/4	PowerPoint Presentation Printout- Mission Operations Directorate (MOD)/ Mission Operations Project (MOP) Preliminary Design Review (PDR) Checkpoint Day 2: Welcome Back (Some Annotations)	June 16-17, 2009
17/5	Presentation: Mission Operations Directorate (MOD)/ Mission Operations Project (MOP) Preliminary Design Review (PDR) Checkpoint Day 2 (Safety to Orion	June 16-17, 2009
17/6	Presentation and Brief: Johnson Space Center (JSC) Management Council for Assessment of Constellation Program (CxP) from System Definition Review (SDR)	June 18, 2008

to Preliminary Design Review (PDR)

17/7	Memorandum Correspondence Related to Mission Operations Project (MOP) Mission Control Center System (MCCS) Preliminary Design Review (PDR)	July 2009, November-December 2009
17/8	Presentation for the Mission Operations (MO) Mission Control Center Systems (MCCS)	January 6, 2010
17/9	Constellation Training Facility (CxTF) Preliminary Design Review (PDR) Kick-off Presentation Day 2	March 9-10, 2010
17/10	Presentations and Memorandums: Constellation Training Facility (CxTF) Preliminary Design Review (PDR) Kick-off	March 9-10, 2010
18/1	Presentations and Email Correspondence Projects Planning and Evolutions	October 2007, February-April 2008, May 2010
18/2	Holt's Handwritten Notebooks: "Mission Ops Standing Review Board (SRB)"	March 1, 2007
18/3	Job Descriptions-Supervisory Aerospace Technology (AST), Flight Operations and Experimental Systems Flight Control	1969, 1971, 1976, 1984, 1994
18/4	National Contract Management Associations(NCMA) Space City Membership; Roster and Bylaws	August 13, 1986
18/5	Newsletters: JSC Personnel Newsletter and Equal News Opportunity	1974-1975
18/6	Notes by Holt Written on NASA Contracts and Presentation on Vision 2000	1994
18/7	Sumposia Papers Canavera Council of Technical Societies	February 1994
18/8	Promotional Materials with Data Fact Sheets: SpaceHab	1986
18/9	Documents: OSTA-3 Experiments and Formulation of NASA Constellation Program (CxP)	August 1984, October 2007
18/10	Promotional Materials with Data Fact Sheets: SpaceHab	1985, 1986

(2 of 02)

18/11	Engineering Directorate Leadership Spreadsheet 1962-2005	March 24, 2006
18/12	Email: Result of the Senior Management Retreat, IPT Status for STS-104 to STS-112; NASA Publication: Neurolab	1998-2001
18/13	Documents, Reports, Comments on: U.S./Russia Mir Docking Collaborations, Pre-Print-Edition Document: First Joint Report; Phase 1 Lessons Learned (SSP, Mir/T.V. Survey (DTO-1118) STS Mission Report	1997-1999

Series VII: Holt's Handwritten Notebooks

Series VII contains Denny Holt's original handwritten notebooks that he used to record information utilized in the performance of his duties at Johnson Space Center. The date ranges of the individual notebooks match the dates listed in Holt's work history. Researchers should be able to look for information and notes for specific NASA and Johnson Space Center programs or projects in his notebooks when compared with his biographical note in this finding aid. The notebooks include drawings, commentary, schedules, and other notes Holt wrote while managing his work in various roles throughout his career.

Box	Description	Date
19/1	Holt's Handwritten Notebook	October-December 1970
19/2	Holt's Handwritten Notebooks	June 1972, November 1972
19/3	Holt's Handwritten Notebooks	February 1974-April 1975
19/4	Photocopy Of A Photograph: Apollo-Soyuz test Project (ASTP) Russian Team (People Names are Noted in Pen)	Undated
19/5	Holt's Handwritten Notebooks	May 1975-November 1976
19/6	Holt's Handwritten Notebooks	August 1977-May 1979
19/7	Holt's Handwritten Notebook	May 1979-January

		1980
19/8	Holt's Handwritten Notebook	Fall 1980- Spring 1981
20/1	Holt's Handwritten Notebooks	April-October 1981
20/2	Black Vinyl covered Day Planner "Monthly Appointment Books 1980"	1980
20/3	Holt's Handwritten Notebook	December 1981-April 1982
20/4	Holt's Handwritten Notebook	April-September 1982
20/5	Holt's Handwritten Notebook	September 1982-April 1983
20/6	Holt's Handwritten Notebook	April-July 1983
20/7	Holt's Handwritten Notebook	July-December 1983
20/8	Holt's Handwritten Notebooks	January 1984-January 1985
21/1	Holt's Handwritten Notebooks	January 1985-March 1986
21/2	Holt's Handwritten Notebooks	January-December 1986
21/3	Holt's Handwritten Notebooks	January 1987-May 1988
21/4	Holt's Handwritten Notebooks	June 1988-January 1989
21/5	Holt's Handwritten Notebooks	January-June 1989
22/1	Holt's Handwritten Notebooks	March 1990- January 1991
22/2	Holt's Handwritten Notebook	February-June 1991
22/3	Holt's Handwritten Notebooks	June 1998- September 1999

22/4	Holt's Handwritten Notebooks	June-November 1999
22/5	Holt's Handwritten Notebook	June 1999- May 2001
22/6	Memos, Newsletters, Presentations on Mission Operations Directorate (MOD)	1985

Series VIII: CD -ROMs

Series VIII consists of 33 compact discs (CDs) that require a CD drive to access. Most of the information on these CD-ROMs is in the form of digital presentations, which can also be found in printed format in other parts of the collection. For details on accessing the contents of the CD-ROMs, contact the UHCL Archives Associate Director or Archivist.

Box/Folder	Description	Date
23/1	CD.1-CD.10	2004
	CD.1. HST DeOrbit/ Services-IPAO: Concept, Feasibility, Sow	June 3, 2004
	CD.2. Hubble Review Team Days One and Two	June 21, 2004
	CD.3. Hubble Review Team Day Three	June 23, 2004
	CD.4. Hubble Review Team Day Four	June 24, 2004
	CD.5. HDSM File	June 30, 2004
	CD.6. Robotic Tool TIM HRSDM	December 2, 2004
	CD.7. Documentation: HRSDM SRR	December 14-15, 2004
	CD.8. Documentation: HRSDM SRR	December 14-15, 2004
	CD.9. DM and EM SRR	2004
	CD.10. HRSDM Feasibility Files Report NASA HQ	2004
23/2	CD.11-CD.21	2005

	CD.11. HRV DM Peer Reviews	February 7-11, 2005
	CD.12. HRV DM Peer Reviews	February 7-11, 2005
	CD.13. HRV DM Peer Reviews	February 7-11, 2005
	CD.14. HRV EM Mechanical Systems PDR Peer Review	February 17, 2005
	CD.15. HRV EM Mechanical Systems PDR Peer Review	February 17, 2005
	CD.16. HRSDM Pre NAR Pitch	February 27, 2005
	CD.17. E.M. and HRV Peer Reviews Partial Set	February 28, 2005
	CD.18. Robot Systems PDR	March 1-2, 2005
	CD.19. HRV RS Tools and Stowage System PDR Peer Review	March 2-3, 2005
	CD.20. HRSDM PDR Presentations	March 21-25, 2005
	CD.21. HRSDM PDR Presentations	March 21-25, 2005
23/3	CD.22-CD.33	2005-2009, undated
	CD.22. HRSDM PDR Presentations	March 21-25, 2005
	CD.23. HRSDM PDR Presentations	March 21-25, 2005
	CD.24. MDM Concept Overview	March 24-25, 2005
	CD.25. SRB Out-Brief	December 2007
	CD.26. CxTF SRR; Kick-off	May 2008, June 2008
	CD.27 MO SRB Files Complete	July 27, 2009
	CD.28. SRR RFA Responses, D.M., EM Mission	Undated
	CD.29. E.M. G.N. and C; Tools and Stowage; Vision Sys. Req's	Undated

CD.30. Missions I and T HRV GS (Zipped) HRSDM Thermal PTG Control Sys, HST-DM Safety	Undated
CD.31. Lockheed EOM Feasibility Study	Undated
CD.32. Lockheed EOM Feasibility Study	Undated
CD.33. HRSDM Dev. Invoices Thru SRR	Undated