

**CENTER SERIES**  
**WILLIAM L DAVIDSON PAPERS**

These documents were donated by William Davidson in May 2006. A second donation was brought by Anne Davidson in February 2009. The first donation (Box 1) consists of two main items, the Space Shuttle Chronology review copy and a Liquid Rocket Booster for STS Study. The Space Shuttle Chronology review copy was circulated among various NASA employees and contractors. The chronology covers the preliminary stages of Shuttle development through the selection of the orbiter prime contractor in 1972. It is not intended as a complete record of STS development and does not include large significant elements such as avionics and computer systems. It was published as A Space Shuttle Chronology, by John F. Guilmartin and John Maurer (NASA Johnson Space Center, 1988). The second donation (Boxes 2-4) consist of a second donation consisting largely of Eagle Engineering studies. These are groups by Lunar Base Studies, Mars Rover, Planetary Missions, Eagle Aerospace (Europe) Limited, Reusable Reentry Satellite (RSS) and Space Biology Initiative (SBI) Program definition Review Trade Studies. Boxes 5-15 consist of Davidson's staff meeting notes and memos on the International Space Station. Includes accounts of work done by the Space Operations Management Office (SOMO), trip reports, briefings, and discussions of organizational structure and the auditing process. Part of Box 5 contains records of Davidson's work with Eagle Engineering.

**Inventory**

<b>SubHeading:</b>	<b>Box Number: 01</b>	
	Liquid Rocket Booster (LRB) for the Space Transportation Systems (STS) Study. Vol. 1 Executive Summary	March 1989
	Space Shuttle Chronology Review Copy Preface & Chapter 1	March 1987
	Space Shuttle Chronology Review Copy Chapter 2	March 1987
	Space Shuttle Chronology Review Copy Chapter 3 & 4	March 1987
	Space Shuttle Chronology Review Copy Chapter 5 & 6	March 1987
	Space Shuttle Chronology Review Copy Chapter 8	March 1987
	Space Shuttle Chronology Review Copy Chapter 9	March 1987
	Space Shuttle Chronology Review Copy Chapter 10	March 1987
	Space Shuttle Chronology Review Copy Chapter 11 & 12	March 1987
	Space Shuttle Chronology Review Copy Appendixes A-G	March 1987
	Space Shuttle Chronology Review Copy Chapter 7	March 1987
<b>SubHeading:</b>	<b>Box Number: 02</b>	
Lunar Base Studies	Lunar Base Synthesis Study Executive Summary, Final Report. Vol. 1 SDD 71-477-1	May 15, 1971
Lunar Base Studies	( Preprint ) Lunar Bases and Post-Apollo Lunar Exploration: An Annotated Bibliography of Federally-Funded American Studies, 1960-82. Paul D. Lowman, Jr.	October 1984
Lunar Base Studies	Lunar Transportation Study. First Quarterly Report	September 11, 1987
Lunar Base Studies	Rocks and Minerals on the Moon: Materials for a Lunar Base by Lawrence A. Taylor Printed for Distribution to Second Symposium on Lunar Bases and Space Activities of the 21st Century	April 5-7, 1988
Lunar Base Studies	Lunar Base Element Definition: Construction and Assembly by Walter Boles	June 20, 1988

Lunar Base Studies	Construction Operations for an Early Lunar Base by John Graf	not dated
Lunar Base Studies	Lunar/Mars Lander Commonality Study EEI Report # 89-265	December 14, 1989
Mars Rover	Mars Rover Sample Return Mission Requirements Affecting Space Station. EEI Report # 88-183. NAS 9-17878	March 31, 1988
Mars Rover	Risk Analysis of Earth Return Options for the Mars Rover / Sample Return Mission EEI Report # 88-196 . NAS 9-17878	July 13, 1988
Mars Rover	Mars Piloted Vehicle Assembly Analysis. EEI Report # 89-245	May 26, 1989
Planetary Missions	Planetary Exploration through Year 2000. A Core Program. Part One of a report by the Solar System Exploration Committee of the NASA Advisory Council Executive Summary.	1983
Planetary Missions	Impact of Lunar and Planetary Missions on the Space Station, Final Report. #84-85D. Contract NAS9-17176	November 21, 1984
Planetary Missions	Planetary Sample Rapid Recovery and Handling Final Report. Prepared for the Solar System Exploration Division of the Johnson Space Center. EEI Report # 85-105. Contract NAS 9-17176	September 20, 1985
<b>SubHeading:</b>	<b>Box Number: 03</b>	
Eagle Aerospace (Europe) Limited	A Study of Microgravity Accessibility, Utilization, and Lessons Learned in the USA. Report # 90-275	July 4, 1990
Eagle Aerospace (Europe) Limited	Study on Orbit Strategies and Navigation near a Comet. P-90-21	July 10, 1990
Reusable Reentry Satellite (RSS)	Reusable Reentry Satellite (RSS) Project Study Plan (PSP) DRL 01. RRS-003	September 1989
Reusable Reentry Satellite (RSS)	Reusable Reentry Satellite (RSS) System Design Study Summary Report RRS Launch Vehicle Tradeoff Study DRL 02. RRS-007	October 3, 1989
Reusable Reentry Satellite (RSS)	Reusable Reentry Satellite (RSS) System Design Study Midterm Review Contract NAS9-18202 DRL 01. RRS-017	February 8, 1990
Reusable Reentry Satellite (RSS)	Reusable Reentry Satellite (RSS) System Design Study. Launch Tradeoff Study. EEI Report #89-255	March 9, 1990
Reusable Reentry Satellite (RSS)	Reusable Reentry Satellite (RSS) System Design Study Recovery Tradeoff Study. EEI Report #89-257	March 9, 1990
Reusable Reentry Satellite (RSS)	Reusable Reentry Satellite (RSS) Summary Report Reentry Dispersion Analysis NAS9-18202 DRL 02. RRS-023	March 1990
Reusable Reentry Satellite (RSS)	Reusable Reentry Satellite (RSS) System Design Study Analytical Support Studies. EEI Report #89-262	March 9, 1990
Reusable Reentry Satellite (RSS)	Reusable Reentry Satellite (RSS) System Design Study Summary Report RRS Design Reference Missions (DRMs) DRL 02. RRS-006	October 3, 1989
Reusable Reentry Satellite (RSS)	Reusable Reentry Satellite (RSS) Summary Report Launch Tradeoff Study. NAS9-18202. DRL 02 RRS-021	March 1990
Reusable Reentry Satellite (RSS)	Reusable Reentry Satellite (RSS) Summary Report Recovery Tradeoff Study NAS9-18202 DRL 02 RSS-022	March 1990
<b>SubHeading:</b>	<b>Box Number: 04</b>	

Space Biology Initiative (SBI)	Space Biology Initiative ( SBI ) Program Definition Review Trade Study 5 Modification of Existing Hardware Versus New Hardware Build Cost Analysis. EEI Report #89-235	May 31, 1989
Space Biology Initiative (SBI)	Space Biology Initiative ( SBI ) Program Definition Review Trade Study 6 Space Station Freedom / Spacelab Modules Rack Compatibility. EEI Report #89-236	May 31, 1989
Space Biology Initiative (SBI)	Space Biology Initiative ( SBI ) Program Definition Review Trade Studies Executive Summary	not dated
Space Biology Initiative (SBI)	Space Biology Initiative ( SBI ) Program Definition Review Trade Study 1 Automation Costs vs. Crew Utilization Final Report	June 1, 1989
Space Biology Initiative (SBI)	Space Biology Initiative ( SBI ) Program Definition Review Trade Study 2 Prototype Utilization in the Development of Space Biology Hardware Final Report	June 1, 1989
Space Biology Initiative (SBI)	Space Biology Initiative ( SBI ) Program Definition Review Trade Study 3 Hardware Miniaturization Versus Cost. EEI Report #89-233	May 31, 1989
Space Biology Initiative (SBI)	Space Biology Initiative ( SBI ) Program Definition Review Trade Study 4 Design Modularity and Commonality. EEI Report #89-234	May 31, 1989
<b>SubHeading:</b>	<b>Box Number: 05</b>	
WLD Memos	Memos and emails on Theater Missile Defense and Technical Volume Compliance	March-April 1992
WLD Memos	Memos and emails on Management Planning Process and Technical Volume Compliance	April-August 1992
WLD Memos	Memos and emails on Issues Management and Continuous Integration Discrepancy Issue Administration,	August-Sept 1992
WLD Memos	Memos and emails on PMC Design Assessment, Issues Management Process, Integration Process	Sept 1992-Feb 1993
WLD Memos	Memos and emails on Management Integration and Spacelab / MIR	Feb-April 1993
Space Station Staff Meeting Notes	Space Station Staff Meeting Notes Jim Brier Staff Meeting	June 1994- August 1995
Space Station Staff Meeting Notes	Space Station Staff Meeting Notes Program Risk Management Staff Meeting	Jan-June 1996
Space Station Staff Meeting Notes	Space Station Staff Meeting Notes Space Station Launch Package Stage Team 2	Jan-June 1996
Bill Davidson Memos	Staff meeting notes on budgeting and cost management	July 1994-June 1995
Bill Davidson Memos	Staff meeting notes and emails on scheduling and schedule integration	July -Dec 1995
<b>SubHeading:</b>	<b>Box Number: 06</b>	
Bill Davidson Memos	Presentations—Reference File Bill Davidson OG211/SSPO Program Control-1	Feb-Dec 1996
Bill Davidson Memos	Presentations—Reference File Bill Davidson OG211/SSPO Program Control-2	April-November 1997
Bill Davidson Memos	Presentations—Reference File Bill Davidson OG211/SSPO Program Control-3	Feb 1998-July 2000
Bill Davidson Memos	Staff meeting notes and emails on risk	Jan-June 1996

assessment; includes risk matrix and schematic drawing for work flow.

**SubHeading:**

**Box Number: 07**

Bill Davidson Memos 1996 Memos and Emails about SOMO ( Space Operations Management Office ) July -Dec 1996

Bill Davidson Memos 1997 Memos and emails on SOMO ( Space Operations Management Office ) Jan-March 1997

Bill Davidson Memos 1997 Memos and emails on SOMO ( Space Operations Management Office ) April-June 1997

**SubHeading:**

**Box Number: 08**

Bill Davidson Memos 1997 Memos and emails on SOMO ( Space Operations Management Office ) July-Sept 1997

Bill Davidson Memos 1997 Memos and emails on SOMO ( Space Operations Management Office ) October-December 1997

Bill Davidson Memos 1998: January-March Memos and emails on Corrective Action Process and auditing Jan-March 1998

Bill Davidson Memos 1998: April-June Memos and emails on Corrective Action Process and auditing April -June 1998

Bill Davidson Memos 1998: July-September Memos and emails on Corrective Action Process and auditing July-Sept 1998

**SubHeading:**

**Box Number: 09**

Bill Davidson Memos 1998: October-December Memos and emails on Corrective Action Process and auditing Oct-Dec 1998

Bill Davidson Memos 1999: January-March Memos and emails on Corrective Action Process and auditing Jan-March 1999

Bill Davidson Memos 1999: April-June Memos and emails on auditing, performance assessment, quality control, CSOC, and SOMO ( Consolidation Space Operations Contract & Space Operations Management Office ) April-June 1999

Bill Davidson Memos 1999 July-September: Memos and emails on auditing, performance assessment, quality control, CSOC, and SOMO ( Consolidation Space Operations Contract & Space Operations Management Office ) July-Sept 1999

**SubHeading:**

**Box Number: 10**

Bill Davidson Memos 1999 October-December: Memos and emails on auditing, performance assessment, quality control, CSOC, and SOMO ( Consolidation Space Operations Contract & Space Operations Management Office ) Oct-Dec 1999

Bill Davidson Memos 2000 January-March: Memos and emails on auditing, performance assessment, quality control, CSOC, and SOMO ( Consolidation Space Operations Contract & Space Operations Management Office ) Jan-Mar 2000

Bill Davidson Memos 2000 April-June: Memos and emails on auditing, performance assessment, quality control, CSOC, GSFC, and SOMO ( Consolidation Space Operations Contract & Space Operations Management Office ) April-June 2000

Bill Davidson Memos 2000 July-September: Memos and emails on auditing, performance assessment, quality control, CSOC, GSFC, and SOMO ( Consolidation

Space Operations Contract & Space Operations Management Office )

**SubHeading:**

**Box Number: 11**

Bill Davidson Memos	2001 January-March: Memos and emails on auditing, performance assessment, quality control, CSOC, GSFC, and SOMO ( Consolidation Space Operations Contract & Space Operations Management Office )	Jan-March 2001
Bill Davidson Memos	2001 April-June: Memos and emails on risk management and SORMS, CSOC Risk Management Tracking System, SOMO Area Risk Manager, CSOC Quality Manual, and Space Operations Risk Management Process (Consolidation Space Operations Contract; Space Operations Management Office )	April-June 2001
Bill Davidson Memos	2000 October-December: Memos and emails on auditing, performance assessment, quality control, CSOC, GSFC, and SOMO ( Consolidation Space Operations Contract & Space Operations Management Office )	Oct-Dec 2000

**SubHeading:**

**Box Number: 12**

Bill Davidson Memos	2001 July-September Part 1: Memos and emails on risk management and SORMS	July-Sept 2001
Bill Davidson Memos	2001 July-September Part 2: Memos, emails, and status reports on risk management and SORMS	July-Sept 2001
Bill Davidson Memos	2001 October-December: Staff meeting notes and emails for risk management	Oct-Dec 2001

**SubHeading:**

**Box Number: 13**

Bill Davidson Memos	2002 January-March: Memos, emails, and status reports on risk management, Space Operations Risk Management System ( SORMS ), CSOC, Space Communications and Data Systems ( SCDS ), and Space Communications Risk Management Development and Support	Jan-March 2002
Bill Davidson Memos	2002 April-June: Emails and memos on SOMO, SORMS, and CSOC ( Space Operations Management Office ; Space Operations Risk Management System ; Consolidation Space Operations Contract )	April-June 2002
Bill Davidson Memos	2002 July-December: Emails and memos on CSOC, Risk Management Plan, and Integrated Management Plan	July-Dec 2002
Bill Davidson Memos	2003 January-June: Emails and memos on CSOC ( Consolidation Space Operations Contract )	Jan-June 2003

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**Box Number: 14**

Bill Davidson Memos	2003 July-September: Memos on SPICE contract, SCIO, Cost Savings Profile Baseline, CSOC, Space Program Integrated Contract Environment, SORMS	July-September 2003
Bill Davidson Memos	2003 September-December: Memos on Extravehicular Activity ( EVA ) Office, Process Control Team ( PCT ), Preventive/Corrective Action Review ( PCAR )	Sept-Dec 2003
Bill Davidson Memos	2004 January-February: Memos on EVA Office	Jan-Feb 2004

**SubHeading:**

**Box Number: 15**

Bill Davidson Memos	2004 March-April Memos on EVA Office, Integrated Risk Management Application ( IRMA ), Preventive/Corrective Action Review ( PCAR )	March-April 2004
Bill Davidson Memos	2004 May-June Emails and memos on Extravehicular Activities Office ( EVA ), risk management, corrective action, and preventive action	May-June 2004
Bill Davidson Memos	2004 July: Emails and memos on XA (Extravehicular Activities Office) EVA and risk management	July 2004
Bill Davidson Memos	2004 August: Emails and memos on XA, EVA, and risk management	August 2004