

FINDING AID FOR THE CHARLES LAUBACH PAPERS, 1958–2006 (#2017–0009)

Contact Information

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Descriptive Summary

Repository (049): University Archives

Collection # (099): 2017 - 0009

Title (245): Charles Laubach Papers

Creator (100/110): Laubach, Charles

Inclusive Dates: 1958 – 2006

Extent (300): 11.5 linear feet (38 boxes)

Language (546): English (US)

Administrative Information

Restrictions on Access (506): none

Restrictions on Use (540): none

Acquisition Information (541): Donated by his wife, Carole Laubach, in September 2014.

Processed by (583): Lindsay Gratzfeld

Preferred Citation (524): Charles Laubach Papers (#2017–0009), University of Houston-Clear Lake Archives.

Biographical/Historical Note (545)

Charles H. "Chuck" Laubach was born in the city of San Antonio, Texas on November 11, 1932 and died in Friendswood, Texas on February 19, 2013 at the age of 81 due to complications from cancer. Laubach began his aerospace industrial career in San Diego, California under General Dynamics – Convair Astronautics after graduation from Texas A&M University in 1958 with a Bachelor's Degree in Mechanical Engineering. In 1962, Laubach moved back to Texas to begin his 25 year service with the National Aeronautics and Space Administration (NASA) where he dedicated his life as a design and logistics engineer for landmark projects such as the Atlas – Centauri, Project Orbiter, and Apollo Missions. While with NASA, Laubach worked on environmental acceptance testing (EAT), integrated logistics Support (ILS), logistics support analysis (LSA), and logistics support analysis records (LSAR).

In 1987, Laubach left NASA and began a career working alongside McDonnell – Douglas and for the Boeing Company where he continued to act as a logistics engineer for the Space Shuttle Program (SSP) and his tireless work with the International Space Station Program (ISSP). While at Boeing, Laubach stood out amongst his peers and lead several projects in designing from start to finish various logistics efforts. He designed manuals and rafted presentations on the importance of logistical engineering and applied ground maintenance of grounded space shuttles and ISSP technology. While working with the ISSP, Laubach was able to travel to foreign nation-states, such as Italy and the Netherlands, in an effort to collaborate with nations around the world to maintain the vision of a united humanity undergoing space exploration. The majority of the Laubach collection spans over his years with Boeing while working in collaboration with NASA and the Johnson Space Center (JSC).

Throughout his lengthy career with NASA and Boeing, Laubach maintained a sterling reputation and incredible work ethic and was recognized as a valuable employee when he retired after 19 years of service with Boeing in 2006 at the age of 73.

Scope and Content (520)

Collection contains the work papers of Charles H. "Chuck" Laubach, Johnson Space Center (JSC) logistics and maintenance engineer from 1958 until 2006. Content includes documentation from General Dynamics, Convair Astronautics, Apollo Environmental Acceptance Testing (EAT), McDonnell – Douglas, United Space Alliance (USA), Space Shuttle Program (SSP), International Space Station Program (ISSP), Logistics Support Analysis (LSA), Logistics Support Analysis Record (LSAR), Logistics and Maintenance (LM), and Integrated Logistic Support (ILS), Department of Defense (DOD) and Military Standard contracts.

Arrangement

The papers of Charles H. "Chuck" Laubach have been arranged in series that correlate to subject matter and each series is organized chronologically.

Index Terms (6xx):

Personal Names: Charles H. Laubach.

Corporate Names: Boeing, NASA – Johnson Space Center, Alenia, McDonnell Douglas, Convair Astronautics, General Dynamics, Barrios Technologies, Martin Marietta, Johnson Space Center (JSC), Rockwell, Marshal Space Flight Center, Fisher – Price, GOLD Western Pacific Data Systems (WPDS), Vision Analytics, Inc.

Subjects: Apollo, McDonnell – Douglas, Convair Astronautics, General Dynamics, United Space Alliance (USA), Space Shuttle Program (SSP), International Space Program (ISP), Integrated Logistics Support (ILS), Logistics and Maintenance (LM), Logistics Support Analysis (LSA), Logistics Support Analysis Record (LSAR), Department of Defense (DOD), Atlas – Centaur Project, Apollo Project, Orbiter Project, Space Station Freedom.

Places: California, Texas, Florida, Netherlands, Italy.

Document Types: paper, CD – Rom, 5 ¼ Floppy Disk, Zip Disk, VHS Tape, U – MATIC Tape, Photographs, Transparencies.

Items Separated

Contact UHCL Archives Staff for a full list of items removed from the collection.

Inventory

<u>Box</u>	<u>Folder</u>	<u>Title</u>	<u>Date</u>
		Series I: General Dynamics/Convair Astronautics	
1	1	Convair/Astronautics: "D" Series Pod Cooling Duct, Disconnect Test	Nov. 3, 1958
	2	Convair/Astronautics: Functional Test, M 92, Separation Cartridges	Apr. 29, 1959
	3	Convair/Astronautics: Instructions for Preparation of Test Estimate and Schedule	Oct. 29, 1959
	4	Convair Astronautics Division/General Dynamics Corp.: Base Activation Booklet	1960
	5	General Dynamics/Astronautics: Test Procedure "E" and "F" Series Booster Staging Draft Test	Mar. 13, 1962
	6	General Dynamics/Astronautics: Standard Instrumentation Procedures for Point Loma Test Site	Aug. 17, 1962
	7	General Dynamics/Astronautics: "E" and "F" Series Booster Staging Test	Aug. 31, 1962
2	1	General Dynamics/Astronautics: Test Procedure, Spare Power Chamber Separation Test	Jul. 1963
	2 – 4	General Dynamics/Astronautics: Centaur Space Power Chamber at Lewis Research Chamber	Feb. 24, 1964
	5	General Dynamics/Astronautics: Photograph Series	Apr. – May 1964
		Series II: General NASA Materials	
3	1	NASA/Lewis Research Center: Good Comments on C. Laubach's Performance	Dec. 23, 1963
	2	NASA/JSC Announcement	Mar. 29, 1973
	3	Aerial Photos from NASA/JSC	Sept. 1973
	4	NASA and Space News	1974
	5	NASA: Hearings before Subcommittee on Space Science and Applications of the Committee of Science and Technology to the United States House of Representatives	1977
	6	NASA Activities	1972 – 1979
	7	NASA/JSC: Memorandum Series	1983 – 1986
	8	NASA/JSC: Reassignments and Position Memos	c. 1987
	9	NASA: Spare Parts Acquisition Policy	Dec. 10, 1989
	10	Organizing for Effective NASA Space Operations Support in an MIS Environment	1991
	11	NASA: Vision Presentation	Apr. 2002
	12	NASA/Boeing: Draft, Generation a NASA DD1149	Sept. 1, 2004
	13	Fact Sheet on NASA Design for Safety	Undated
	14	NASA/JSC: Educational Programs, Public Affairs, Office Booklets and Briefs for Classrooms	Undated
	15 – 16	NASA Policy Directive (NPD 7500.1A)	Undated
		Series III: Environmental Acceptance Testing (EAT) and Military Documents	
4	1	Apollo Spacecraft Program and Environmental Acceptance Testing (EAT)	1971 – 1973

	2	NASA/JSC: Environmental Acceptance Test Summary for Flight Readiness Review	1973
	3	Military Standard – 499A (USAF) Engineering Management, Dept. of Defense	May 1, 1974
	4	Proceedings of 2 nd Aerospace Testing Seminar, Institute of Environmental Sciences, The Aerospace Corps; Los Angeles, CA	Mar. 17 – 18, 1975
	5	NASA/JSC: Specification Environmental Acceptance Testing	Sept. 1975
	6	Military Standard (MIL – STD) – 154F (USAF): Optional Spare Parts, Maintenance and Inventory Support of Space and Missile Systems	Jun. 15, 1977
	7	U.S. Dept. of the Air Force: Acquisition Management, Integrated Logistic Support (ILS) Program	Feb. 7, 1980
	8	Dept. of Defense: Directive, Acquisition and Management of Integrated Logistics Support (ILS) for Systems and Equipment	Nov. 17, 1983
	9	Military Standard: Dept. of Defense (DOD) Requirements for a Logistics Support Analysis Record (LSAR)	Jul. 20, 1984
	10	Naval Aviation Systems Team, Aircraft Wiring Support Equipment Commodity (AWSEC) Program Summary	Undated
		Series IV: Rockwell & Space Shuttle Program	
5	1	Rockwell/Space Shuttle: System Summary	Sept. 1974
	2	Rockwell International: Internal Letter: Hydrogen Concentration Detected During MPTA Testing at NSTL	Dec. 12, 1978
	3	Marshall Space Flight Center Configuration Control Board Directive: Baseline ISS Integrated Logistic Support (ILS) LVL B Program Definition and Requirements Documents	May 29, 1985
	4	Boeing: Reusable Space Systems, Florida Operations Critical Skills Guide	1998
	5	Boeing: Reusable Space Systems, Palmdale AIT Presentation	Oct. 7, 1999
	6	Space Shuttle Program News	Apr. 2001
	7	NASA: Space Shuttle Specification Environmental Acceptance Testing, Revision C	May 17, 2001
	8	NASA: Marshall Space Flight Center Presentation, "Transforming Marshall: A New Vision, A Bright Future," Center Director's Update	Jun. 30, 2004
	9	C. Laubach to M. May Email Series	2004
	10	Rockwell: Leadership in Space Logistics	Undated
	11	Shuttle Program Orientation, Course No. 174AB	Undated
		Series V: Atlas – Centaur, Constellation, Orbiter, Apollo, Columbia and Cox Report	
6	1	NASA: Atlas – Centaur Separation System and Surveyor Staging	Mar. 27, 1963
	2	Apollo Checkout Criteria, Apollo Space Craft Program, NASA Houston, TX	Oct. 22, 1964
	3	NASA/JSC: Thermal Life Certification of Orbiter Avionics	Mar. 9, 1976
	4	Apollo – Soyuz Pamphlet No. 6: "Cosmic Ray Dosage"	Oct. 1977
	5	NASA: Orbiter Project Miscellaneous Information	1978
	6	NASA/JSC: Orbiter Project, Main Propulsion Test	Apr. 26, 1979

	7	NASA/JSC: Orbiter Project, Personnel Location Assignments for Static Firing #5	May 12, 1979
	8	NASA/JSC: Orbiter Project, Main Propulsion TRSD Test Program, Data Tables	1979
	9	Operations Shuttle Orbiter Spare/Repair Parts, Provisioning Procedure, Revision I	May 7, 1982
	10	NASA/JSC: Orbiter Repair Agency Design, Activation and Operations Requirements Document, Space Shuttle Office	1985 – 1988
	11	Cox Report: Summary and Action with Boeing	Feb. 2001
	12	Columbia Accident Investigation (CAIB)/NASA, Accident Investigation Team (AIT) Working Scenario, Final Version	Jun. 8, 2003
	13	NASA: Renewed Commitment to Excellence: Assessment of the NASA-Agency-Wide Applicability of the Columbia Accident Investigation Report	Jan. 30, 2004
	14	NASA: Office of Exploration Systems, Code T, Project Constellation Work Breakdown Structure (WBS) Basic Frame Work	Jun. 21, 2004
	15	Boeing/NASA: Bilateral Meeting with Columbus Orbital Faculty and ISS Logistics	Feb. – Mar. 2001
	16	Development and Operations of the Shuttle Orbiter Repair Depot	Undated
		Series VI: Logistics Support Analysis (LSA) and Logistics Support Analysis Records (LSAR)	
7	1	Guide for Logistics Support Analysis (LSA) and Logistics Support Analysis Record (LSAR)	Dec. 1984
	2	Space Station: Logistics Support Analysis (LSA) Presentation/Pitch	Oct. 8, 1985
	3	Martin Marietta: For Space Station Logistics Support Analysis (LSA) Integration Process Overview (Foldable)	Oct. 8, 1985
	4	Logistics Support Analysis (LSA) Article	Jan. 1986
	5	Boeing: Logistics Support Analysis (LSA) Planning Team, Meetings and Demonstration	1986
	6	Handwritten Logistics Support Analysis (LSA)	Aug. 23, 1990
	7	Getting Organized for a Logistics Support Analysis (LSA) Proposal	1991
	8	Boeing: Unpressurized Logistics Resupply Analysis Report by Boeing Prime Cargo Integration Team	Sept. 22, 1997
	9	Introducing Logistics Support Analysis (LSA) and Logistics Support Analysis Record (LSAR) Information Packet (Missing Cover Page)	Undated
	10	Logistics Support Analysis (LSA) Presentation/Explanation	Undated
	11	Logistics Support Analysis (LSA): Training Exercise	Undated
	12	Cost Estimating Methodology for Logistics Support Analysis (LSA), Material Readiness Support Activity	Undated
	13	Boeing: presentation on LSARS and Interchangeability Code Assignment	Undated
	14	LSAR Review Report and Recommended Action	Undated
	15	Logistics Support Analysis (LSA) Written Notes	Undated
		Series VII: Human Space Flight & Human Robotic Technology	
8	1	Space Station Human Productivity Maintenance Study, Final Report for NASA/JSC	Jul. 1986

	2	NASA: Human Space Flight Schedule, Boeing	Feb. 2002
	3	NASA: Human and Robotic Technology (H&RT) Formulation Plan, Version 5	Jul. 29, 2004
	4	NASA: Space Exploration Systems, Human Robotic Technology Proposal and Overview	2004
	5	Boeing: Human Space Flight and Exploration (ISS) "Supercam Export Representative Export Compliance Desk Reference Manual," Training	Undated
	6	Boeing, Space and Communications: Human Space Flight and Exploration, ISS Mission Operations and Product Support	Undated
		Series VIII: Logistics & Maintenance	
9	1 – 2	ISS Program: Station Program Implementation Plans, Vol. 5, Logistics and Maintenance, Revision A; Plan Edit Series	1996 – 2002
	3 – 4	Boeing, NASA/ISSP: Logistics and Maintenance Operational Support	Feb. – Dec. 2002
	5	Boeing: Maintainability and Maintenance Planning	Undated
	6	ISS Program: RMAT History Presentation, Logistics and Maintenance	Undated
	7	New Contract for Logistics and Maintenance, Statement of Work (SOW) ISS Program	Undated
		Series IX: International Space Station (ISS)/ International Space Station Program (ISSP)	
10	1	NASA/JSC: Space Station Program Definitions and Requirements, Sec. 3, Part 4.1: Master Verification Requirements	Apr. 17, 1986
	2	NASA/JSC: Level B Change Request, Baseline PDRD Sec. 3., Space Station Ground Systems "Design-To" Requirements	Jul. 11, 1986
	3	Space Station Program: Request for Baseline for Ground Systems "Design-To" Requirements	c. 1986
	4	Space Station Approach: Lessons from Trident Submarine Program	Jan. 1987
	5	NASA/JSC: Preliminary Integrated Operations for Phase I Space Station: Mission Support Directorate, Mission Planning and Analysis Division	Feb. 1988
	6	NASA/JSC: Space Station Projects Office MIR Special Topic: Space Station Freedom Inventory Management	May 31, 1990
	7	NASA/JSC: Space Station Projects Office, Acquisitions Logistics Support Requirements, Revision A	Jun. 4, 1991
	8	NASA: Operations Phase Assessment Team II (OPAT) Reference Data, Space Station Redesign, Basic Report	Apr. 23, 1993
	9	NASA: ISS Program, Depot/Manufacturing Facility Certification Plan	Apr. 21, 1997
	10	ISSP, NASA/JSC: Increment Definitions and Requirements, Annex 1 & 2 Reference Data	Apr. 1998
	11	ISS Program: Acronyms/Abbreviations List, Revised	Jan. 7, 1999
	12	Boeing/ISS: Mission Evaluation Room (MER) Handbooks and System Problem Resolution Team (SPRT) Reference Data	Jun. 1, 1999
	13	Boeing: Roles and Responsibilities with the ISS Program, Costs	Aug. 4, 1999

	14	ISS Program: Baseline, Operations and Utilizations (OU) Work Breakdown Structure (WBS)	c. 1999
11	1	ISS Program: ISS Organization Presentation	Jan. 24, 2000
	2	NASA: ISS Program, Depot/Manufacturing Facility Certification Plan, Revision A	Mar. 3, 2000
	3	NASA: ISS Program, Depot/Manufacturing Facility Certification Plan, Revision A	May 24, 2000
	4	Boeing/ISS: Economic Development of the Space Station	May 25, 2000
	5	ISS: Operations Architecture Study, Final Report	Aug. 2000
	6	ISS Program: Research Program Plan and Accompanying Articles	Sept. 20, 2000
	7	Boeing: ISS Field Services HOU – OPM – 007	Oct. 13, 2000
	8	NASA and ISS Program: Depot/Manufacturing Facility Certification Plan, Revision A (Emails Included)	Nov. 13, 2000
	9	Boeing/ISSP: CR2605 Status, ISS Electrical Power System Components	Jun. 12, 2001
	10	Boeing/ISSP: Product Support Overview	Jul. 23, 2002
	11	Boeing/ISS: Preliminary Level I and II Integrated Master Phasing Schedules, Presentation, and Emails	Nov. 2003
	12	Boeing/ISS: IPIC and 10K Sustaining (Post – Production Support) Tasks; MO SA11D1, C. Laubach, M. Harris Presentation	Feb. 20, 2004
	13	ISS and Boeing Sustaining Tasks and Logistics Flow Charts	Feb. 20, 2004
	14	Boeing/ISSP: Obsolescence Management Program IPL Update	Jul. 29, 2004
12	1	ISSP: Program Instruction Draft Edit Series with Comments	Nov. 2004
	2	NASA/JSC/ISS: Launch Site Integration Office (LSIO), Informal Briefing	Dec. 2, 2004
	3	ISSP: ACA Steering Committee Meeting	Mar. 17, 2005
	4	Boeing/ISS: Summary of NASA ESAs Roadmap, Guidance, Navigation, and Control Team	Oct. 13, 2005
	5	ISSP: Enhanced ORU Temporary Platform, Logistics, Sustaining and Other OSE Efforts	Nov. 2005
	6	Boeing/NASA/JSC/ISSP: Return Manifest Disposition Plan Blank Book Review Copy	Jan. 2006
	7	NASA/JSC/ISSP: Safety Review Process Draft, Revision D	Feb. 2006
	8	NASA/ISS: Model for Estimating Space Station Operation Costs (MESSOC)	Undated
	9-10	ISSP: Station Program Implementation Plan (SPIP)	Undated
	11	ISS Hardware Flows and Drafts	Undated
	12	ISS/Boeing: Fleet Resource Management Process Overview and Floppy Disk	Undated
	13	Boeing/ISSP: Fleet Resource Management Program Review	Undated
	14	Emails from C. Laubach to J. Acevedo, CR, and LSG Sparring Draft, Notes, and Miscellaneous Pages	Undated
		Series X: Integrated Logistic Support (ILS)	
13	1	Integrated Logistics Support Plan (ILSP) and Logistic Background Data, (NASA/ISS)	Feb. 1986
	2	Integrated Logistics Support – Interface	Jun. 1986

	3	Integrated Logistics Support Plan (ISLP) Contract: S – 901401 – 57 (DR MU – 02)	May 1991
	4	Boeing: V – 22 Integrated Logistic Support Database Study	Aug. 27, 1999
	5	Integrated Logistics Support: Opportunity For Improvement, Operations and Utilizations (OU) Trade Study Reference Data, Boeing	Aug. 30, 1999
	6 – 7	Boeing: Integrated Logistics Support (ILS), FADs, Functional Basis of Estimates (BOEs) for IP/Ps Visit Support Data, Reference Data	c. 1999 – 2001
	8	Integrated Logistics Support (ILS)	1999
	9	Integrated Logistics Support (ILS), Boeing Functional Basis of Estimates (BOEs)	c. 1999
	10	Boeing: Edit Series of Space Station Integrated Logistics Support – An Approach Manual	Undated
	11	NASA/JCS: C. Laubach Presentation, Integrated Logistics, with Diagrams, Interfaces, and System Requirement Analysis	Undated
14	1	Boeing: Integrated Logistics Support (ILS) Functional Tree (Master), Work Breakdown Structure (WBS) Subjects, FADs, Attached Transparencies	Undated
	2	Boeing: Integrated Logistics Support Information	Undated
		Series XI: Work Package #2	
	3-6	LEHR – Goldman, Vol. II, Section 2.7 – Option Edit Article Series by Team Red Review, McDonnell Douglas/Space Station Program Work Package	1987
		Series XII: McDonnell Douglas & Space Station Freedom	
15	1 – 10	McDonnell Douglas: Space and Defense Imagery Log	c. 1995 - 1997
16	1 – 12	McDonnell Douglas: Space and Defense Imagery Log	c. 1995 - 1997
	13	McDonnell Douglas Corp.: A Collection of Technical Papers; AIAA/SOLE 1 st Space Logistics Symposium	Mar. 24 – 26, 1987
	14	Space Station/ McDonnell Douglas: Logistics Space Station Work Package 2, Integrated Logistics Support (ILS) by C. Laubach	Jun. 23, 1988
	15	McDonnell Douglas: Space Station Logistics, Space Station Freedom Work Package 2, Integrated Logistics Support (ILS) by C. Laubach	Nov. 29, 1988
	16	McDonnell Douglas: Integrated Logistics Support (ILS), Logistics Support Analysis (LSA), Logistics Support Analysis Record (LSAR)	1989
	17	NASA/JSC: Space Station Freedom, Onboard Inventory Management Concepts Doc., Draft	Dec. 1989
	18	McDonnell Douglas: Space Station Freedom Exhibit “C”, Integrated Logistics Support (ILS) Technical Review by C. Laubach	Apr. 19, 1990
	19	McDonnell Douglas/Space Station Freedom: Logistics Definitions, ILS, LSA, LSAR Presentation	May 13, 1991
	20	McDonnell Douglas: Space Station Freedom Logistics Support Overview by C. Laubach	Aug. 29, 1991
	21	McDonnell Douglas: Space Station Freedom Logistics Support Overview	Sept. 24, 1991

	22	U. S. Govt.: Space Station Freedom Operations Phase Assessment Team Final Report Briefing	Sept. 3, 1992
	23	Space Station Freedom: Operations Phase Assessment Team, Final Report "Archive"	Sept. 1992
	24	McDonnell Douglas/ISS: Technical Data and Documentation Flight 2A	Sept. 16, 1992
	25	Space Station Freedom Program and Operations Draft, Integrated Logistics	2007
17	1	McDonnell Douglas/Space Station Freedom: Presentation and Diagrams, Logistics and Maintenance	Undated
	2	McDonnell Douglas: Logistics Considerations for the Design Engineer (LSA,LSAR)	Undated
	3	Space Station Freedom, Acquisition, Operations, LMRT Files	Undated
	4	ELV's Role in the Space Station Program, McDonnell Douglas	Undated
	5	Space Station Freedom: Work Package – 02, Integrated Logistics Support (ILS), McDonnell Douglas (Missing Cover, 1 – 2 Pages)	Undated
		Series XIII: Other Company Projects	
	6	Martin Marietta: Logistics Simulation and Database Development Presentation by R. Ketchum	1987
	7	Martin Marietta: Integrated Logistics Program Approach Presentation by N. J. Oliva	1987
	8	NASA: External Maintenance Task Team, Fisher – Price Status Report to J. Aaron	Feb. 17, 1990
	9	Boeing and GOLD Western Pacific Data Systems (WPDS), Working Together to Manage Software with ISS	1996
	10	Boeing/Mitsubishi: Heavy Industries Bi-Lateral Meeting	Feb. 19 – 23, 2001
	11	Barrios Technology: Orbital Replaceable Unit Data Directory (ORUDD) User's Guide; Information Systems Analysis and Integration Team Contract (ISAC)	Nov. 2001
	12	International Partners/Participants with Email Attachments	Jul. 2002
	13	GOLD/Eagle User Guides and Support	2002
	14	Vision Analytics, Inc. Email Correspondence	Aug. 15, 2003
	15	Boeing/ISS: GOLD Job Order Handbook	Sept. 10, 2003
	16	TD & D Validation Plan No. E1D – 01779; Sent to R. Angelini, Alenia	2003
	17	ISS: Barrios Technology, Mission Integrated Database Application System (MIDAS) Barcode Inventory Tracking System (BITS) User Guide	Jun. 2004
	18	Eagle/GOLD: Logistics Information System Databases, Draft	Undated
	19	Alenia Projects	Undated
		Series XIV: Logistics, Logistics & Maintenance	
	20	NASA/JSC: Rise of Logistical Engineering Importance and Challenger Disaster	1980s
	21	ISS: Logistics and Maintenance Overview	Feb. 24, 2000
18	1	Boeing/ISSP: Logistics and Maintenance MER Console Handbook	Oct. 29, 2001

	2	Boeing: Request for New Logistics Information Systems Capability Process, HOU – OPD – 122	Oct. 20, 2001
	3	NASA/JSC/ISS: Logistics and Maintenance Operational Support, Revision B	Nov. 2003
	4	Boeing: Logistics and Maintenance Support Source Selection Recommendation	Jul. 9, 2004
	5	NASA/JSC/ISSP: External Maintenance Operational Concepts and Requirements, Revision A	Oct. 2004
	6	Boeing/NASA/ISS: Logistics and Maintenance, Warehouse Environmental and Hardware Inspection Plan	Feb. 10, 2005
	7	ISSP: Logistics and Maintenance, Maintenance Prioritization Guidelines	Apr. 2005
	8	NASA/JSC: ISS, Logistics and Maintenance/OB5	Mar. 10, 2006
	9-10	Boeing/ISS Program: Logistics, MARs, and Maintenance	c. 2000 – 2006
	11	Boeing/ISSP: Logistics and Maintenance	Undated
	12	Activities for Logistics and Maintenance	Undated
	13	Logistic Engineering and ISSP	Undated
	14	Ch. 1: Introduction to Logistics Rough and Clean Copy (For Possible Book) Edit Series	Undated
	15	“The Logistics of Having a Baby” Article by N. L. Orndorff, on the Importance and Value of Logistic Engineering	Undated
	16	Consolidated Maintenance and Inventory Logistics Planning Tool Overview Presentation	Undated
		Series XV: Various Manuals	
19	1	ISO 9000: “The Standard for World Class Quality Executive Overview”	c. 1980s
	2	Global Business Acquisition Program 21, Boeing	c. 1980s
	3	Dept. of the Navy: Best Practicals; “How to Avoid Surprises in the World’s Complicated Technical Process, Transition from Development to Production”	Mar. 1986
	4	Boeing: Leadership 2000, State of Business	Apr. 2000
	5 – 6	Boeing: Leadership Manual for 2000 Space and Communications Group	Undated
		Series XVI: Project D683 Work Package Series, Nodes 2 & 3, Utilization, Operations, and Training Assessment Team (UOTAT)	
	7	Boeing: Space Station Work Package 1 (WP01), Vol. II Technical, Part 3, Node and Airlock Systems	Jul. 21, 1987
	8	Boeing: Space Station Work Package 1 (WP01), Vol. VI, Phased Program Proposal (Included Blueprint)	Dec. 2, 1987
20	1	Utilization, Operations, and Training Assessment Team (UOTAT) Findings, Data, Emails	Jan – May 1995
	2	Utilization, Operations, and Training Assessment Team (UOTAT) NASA/JSC	Mar. 31, 1995
	3	Utilization, Operations, and Training Assessment Team (UOTAT)	1995
	4	Utilization, Operations, and Training Assessment Team (UOTAT) NASA/JSC	1995
	5	Utilization, Operations, and Training Assessment Team (UOTAT) Findings: Cost Savings	1995
	6	Boeing: Logistics and Maintenance Nodes 2 & 3 Transition Operational Post – Production Support (PPS) Plan, Draft	Jun. 2, 2000

	7	NASA/Alenia: Node 2 & 3 ASI/Alenia Logistics and Maintenance Deliverable Products	Jul. 10, 2000
	8	Alenia/Spazio: Node 2 & 3 Flight OPS TIM, Logistics and Maintenance Deliverable Products	Oct. 23 – 27, 2000
	9	Boeing/ISS Program: Logistics and Maintenance, Nodes 2 & 3, Post – Production Support (PPS) Plan Draft	c. 2000
	10	Boeing/ISSP: Logistics and Maintenance (L&M) Nodes 2 & 3 Transition Operational Post – Production Support (PPS) Plan Edit Series	2000s
	11	Boeing/ISSP: Science and Utilization Segment, D683 – 35584 – 1, Consolidated Standard Payload Rack, Logistics and Maintenance Plan	Dec. 19, 2001
	12	Boeing/Alenia/NASA: Nodes 2 & 3 Tasks and Responsibilities Presentation	Undated
	13	Boeing: Contract “F”, Work Package Development Process and Miscellaneous Support Data	Undated
	14	Modification Kit Elements Draft Handout with Comments	Undated
		Series XVII: On-Orbit and Payloads	
	15	NASA/ISSP: Payload Analytical Control Doc. (Manned Base)	Jan. 10, 1990
	16	NASA Space Logistics Depot and NASA Payloads Logistics Depot in Tandem with Boeing, Data, Capabilities	c. 1998
21	1	ISSP: On-Orbit Inventory Stowage Implementation Plan, Revision B	Nov. 10, 1998
	2	ISS: Logistics and Maintenance Operational Support, Integrated Maintenance Planning On-Orbit Maintenance; Maintenance and Resupply Team Reference Data	Dec. 1999
	3	Actions on Payload Report with Emails	c. 1999
	4	Payloads support system and Hardware and Action Plan	May 2001
	5	ESA – Payload Support/Equipment, NASA’s POCs – ESA Action/Team ESA – 3	Jun. 18, 2001
	6	NASA/JSC/ISSP: On-Orbit MOD Kit Process – ISS MER, Roles and Responsibilities	Jun. 6, 2003
	7	ISS/NASA/JSC: Increment Definition and Requirements Doc. For Increment 9, Annex 2: On-Orbit Maintenance Plan	Dec. 2003
	8	ISS: Payload Accommodations Presentation	Undated
	9	Foldable Payload Support Worksheet	Undated
	10	Boeing: Payload Services Booklet Presentation (Missing Cover, 1 – 2 Pages)	Undated
		Series XVIII: Project D684 Series	
	11-12	Boeing/ISS Program: D684 – 10041 – 1, Integrated Logistics Support Plan (ILSP) Vol. I	Jan. 17, 1996
22	1	Boeing/ISS Program: D684 – 10041 – 1, Integrated Logistics Support Plan (ILSP) Vol. I	Jan. 17, 1996
	2	Boeing/ISS Program: D684 – 10XXX – X Post – Production Logistics and Maintenance Approach Summary: Vol. I Technical Approach, Book II, Revision Draft	Feb. 9, 1998
	3	Boeing/ISS Program: D684 – 10440 -1 Boeing Logistics and Maintenance Post – Production Support (PPS) Plan, Type 3	Sept. 11, 1998

	4	Boeing/ISSP: D684 – 10440 -1 Boeing Logistics and Maintenance Post – Production Support (PPS) Plan, Revision A	Feb. 22, 2000
	5	Boeing/ISSP: D684 – 10162 – 1 – 2, Logistics Supportability Assessment Report (LSAR), Revision H	Jul. 11, 2000
	6	Boeing/NASA/JSC/ISSP: D684 – 27522 – 1, Revision A, Draft, Payloads Systems Support, Development Hardware Support Plan for Payload Rack, Checkout Unit	Jun. 18, 2001
	7	Boeing/ISSP/NASA/JSC: D684 – 10041 – 01 – 11 Draft I, Integrated Logistics Support (ILS) Plan, Vol I, Book 11, Operations Plan	Sept. 26, 2002
	8 – 9	Boeing/ISS Program: D684 – 10041 – 1, Integrated Logistics Support Plan (ILSP)	Feb. 6, 2002
23	1-2	Boeing/ISS Program: D684 – 10041 – 1, Integrated Logistics Support Plan (ILSP)	Feb. 6, 2002
	3	Boeing Product Support, Post – Production Support (PPS) Annual Operating Plan; D684 – 10440 – 1	Dec. 20, 2002
	4	Boeing/ISPP: D684 – 10162 – 1 – 2 – 11A On-Orbit Logistics Supportability Assessment, Flight 11A Addendum	Feb. 24, 2003
	5	Boeing/ISSP: D684 – 11676 – 01; Ground Based Maintenance and Repair Process	Sept. 24, 2003
		Series XIX: Boeing Imagery Log	
	6-23	Boeing: Space Flight Imagery Log	c. 1997
24	1-28	Boeing: Space Flight Imagery Log	c. 1997
		Series XX: United Space Alliance (USA)	
	29	United Space Alliance (USA): Supportability Issues	Dec. 5, 1997
25	1	United Space Alliance (USA): Notification of Loss of Repair, Failure Analysis and Production Facilities and Corrective Action	Aug. 3, 1998
	2	United Space Alliance (USA): Notification of Loss of Repair, Failure Analysis and Production Facilities and Corrective Action	Sept. 1998
	3	Boeing/ISS Program: Memorandum of Understanding (MOU) Between Boeing Logistics and USA Logistics	Sept. 1 1998
	4	United Space Alliance (USA): Notification of Loss of Repair, Failure Analysis and Production Facilities and Corrective Action	Oct. 1998
	5-6	United Space Alliance (USA): Request for Technical Evaluation from D. Stelling to C. Laubach on USOS Acceptance and ISS Vehicle Sustaining Engineering	Jul. 2, 2003
		Series XXI: Post – Production Support	
	7	Post – Production Support (PPS), Vol. 1, 2, and 3	May – Aug. 1998
	8	Boeing/ISSP: Post – Production Support (PPS) Plan Summary	Jun. 30, 1998
	9	Post – Production Support (PPS) Proposal Fiscal Year (FY) “99” Master Backup – Boeing: Post – Production Support (PPS) Ground Rule and Budget Review	Sept. 25, 1998
	10	Post – Production Support (PPS) DM & R Basis of Estimates (BOEs) Reference Data	Oct. 23, 1998
26	1	Post – Production Support (PPS) Overview	May 21, 1999

	2	ISS: Post – Production Support (PPS) Overview	May 21, 1999
	3	ISS: Post – Production Support (PPS) Overview – D. Morgan	May 21, 1999
	4	Boeing/Houston: Post – Production Support (PPS), 2000 – 2016 Budget Review/Submittal	Oct. 8, 1999
	5	Post – Production Support (PPS), Worksheet, Fiscal Year, Define and Repair Capability	1999
	6	Product Support – All Hands on Deck Meeting and Presentation	Apr. 28, 2000
	7	Expanded Post – Production Support (PPS), New Business Approach, Draft Presentation by C. Laubach	May 2, 2000
	8	Production Support Program: Level Processes and Procedures and Post – Production Support (PPS), Reference Data, Boeing	c. Jul. 1998 – Oct. 2000
	9	ISS: Post – Production Support (PPS)	2001
	10	Houston Procedures Documentation System (PDS), Product and Post – Production Support (PPS)	2001
	11	Boeing/ISSP: Boeing Product Support, Post – Production Support (PPS) Annual Operating Plan; D684 – 10440 – 1 Provided Payload Hardware Repair Capability, Retention Diagrams, Equipment Descriptions	Jul. 2004
27	1	NASA Program and Project Logistics Policy (Acquisition and Post – Production Support (PPS)) Reference Data	c. 2004
	2	Post – Production Support (PPS) Total Budget Exercise Fiscal Year (FY) 2005 – 2016	2005 – 2016
	3	Post – Production Support (PPS) Budget for the Fiscal Year	Undated
	4	Boeing/ISS: Production Support and Charts	Undated
		Series XXII: Operations and Utilizations (OU)	
	5	Boeing: Functional Description for the Operations and Utilizations (OU) Integrated Logistics Support (ILS)	May 1999
	6	Boeing/ISS: Operations and Utilizations (OU) Commercial Operations Survey Summary of Findings	Mar. 8, 2000
	7	Operations Concept Operations and Utilizations (OU), Logistics and Maintenance (LM), Reference Data, Boeing/ISSP: D684 – XXXX – X Hardware Supportability Management Plan	Mar. 15, 2000
	8	Boeing: Operations and Utilizations (OU) Logistics Planning Team, Draft, Depot Consolidation	Apr. 21, 2000
	9	Boeing/ISS Program: Operations and Utilizations (OU) Budget, Baseline ISS OU Work Breakdown Structure (WBS), SPIP Doc., Tree and Management Plan	2000
28	1	Boeing: Operations and Utilizations (OU), Integrated Logistics Support (ILS)	Feb. 14, 2001
	2	Boeing: Operations and Utilizations (OU) Logistics Support, Functional Description for OU Integrated Logistics Support (ILS)	Feb. 14, 2001
	3	ISS: Operations and Utilizations (OU) Breakdown Structure for Product Support (As Is) Boeing Baseline	Undated
	4	ISS Flows and ISS Operations and Utilizations (OU)	Undated
	5	Boeing: ISS and Operations and Utilizations (OU) Presentation	Undated
		Series XXIII: Boeing Materials	

	6	Boeing: History Overview Presentation	1910 – 2016
	7	Carrier/Cargo Processes Presentations	Mar. 24, 1999
	8	Boeing: Baseline Processes Presentation	Apr. 14, 1999
	9	Target Areas for Improvement, Maintenance Presentation	Apr. 29, 1999
	10	Boeing: SFOC Contract Attachments and Statement of Work (SOW)	c. 1996 – 2000
	11	Boeing: SSP 50110, Revision F to Assembly and Service of DNC – 04	1999 – 2000
	12	Boeing: Houston Host Tenant Roles and Responsibilities Presentation	Jan. 28, 2000
	13	Boeing: All Employee Meeting on ISS Presentation	Dec. 13, 2000
	14	Boeing/ISSP: Utilization Research and Cost Findings	1999 – 2001
	15	Boeing: Trade Study List	Feb. 5, 2001
	16	Boeing/ Space and Communications: Agreement Contract	Oct. 2001
	17	Draft Coordination copy with Appendix Attachment	Dec. 24, 2003
	18	Statement of Work (SOW) Responsibility Matrix and Task Descriptions	2003
29	1	C. Laubach Emailing K. Mihalik series on MCN OM 3010, Boeing Deployed Assembly	Jan 9, 2004
	2	Boeing: Life Cycle Customer Support Workshop, Professional Development	Sept 26 – Oct. 1, 2004
	3	Boeing: Flight 14A, Element: ESP – 2, Technical Data and Documentation, MBSU Flight Support Equipment Kit	Feb. 2, 2005
	4	Meeting Request Email and Accompanied Drafts and Revisions of Proposed Agenda	Arp. 19, 2005
	5	Boeing: Edit of Job Description for Product Support Engineer and Responsibility Guide	Apr. 20, 2005
	6	Boeing: Pre/Return Mission processing Presentation	Oct. 12, 2005
	7	Data Requirements Description	Oct. 18, 2005
	8	Boeing: 2016 Vision Presentation for New Building Site, Plant 42, Site 1	Undated
	9	Boeing: Supportability, Reliability, Maintainability, Sustainability, Obsolescence, Reference Data	Undated
	10	NASA/JSC/Boeing: Shipping and Cargo	Undated
	11	Boeing Pictures of Various Air Crafts	Undated
	12	Boeing: ISS Facility Consolidation for Lower Cost/Improved Integration and Operations	Undated
	13	Focus Team Staffing and Notes, Boeing	Undated
	14	Collection of Acronyms	Undated
		Series XXIV: Checkout, Assembly and Payload Processing Services (CAPPS) & Projects	
	15	Statement of Work (SOW): Checkout, Assembly and Payload Processing Services (CAPPS) Contracts	Apr. 24, 2002
	16	Checkout, Assembly and Payload Processing Services (CAPPS): Cargo Mission, Attachment J – 1, Statement of Work (SOW), Checkout, Assembly and Payload Processing Services (CAPPS) Contract	Apr. 24, 2002
30	1	MPLM – Hardware Responsibilities, Checkout, Assembly and Payload Processing Services (CAPPS)/USOS Operations Agreement (OA) 10K Ext.; Boeing/NASA/Red Point	2004

	2	Boeing/ISS: CMC/USOS/ Checkout, Assembly and Payload Processing Services (CAPPS) Associate Contractor, CoTR Briefing	Oct. 27, 2005
	3	Binder Presentation: USOS/ Checkout, Assembly and Payload Processing Services (CAPPS)/ CMC Operational Agreement (OA), Flows, Emails	2005
	4	Assorted Checkout, Assembly and Payload Processing Services (CAPPS) and USOS Operation Agreement (OA)	Undated
		Series XXV: Vehicle Sustaining Engineering	
	5	Boeing/NASA Systems – Houston: ISO 9000/AS9100 Vehicle Internal Audit	Jul. 14 – 18, 2003
	6	ISSP: Preparing for Vehicle Internal ISO Audit	Dec. 13 – 17, 2003
	7	Boeing: USOS Acceptance and Vehicle Sustaining Engineering, USA Phase-In Plan	c. 2003
	8	USOS Acceptance and Vehicle Sustaining Engineering Contract Statement of Work (SOW) with Emails	c. Jan. 2005
	9	Boeing: Vehicle Project Review (VPR) Agenda	Jun. 21, 2005
	10	USOS Acceptance and Vehicle Sustaining Engineering Contract, Statement of Work (SOW)	Undated
31	1	USOS Acceptance and ISS Vehicle Sustaining Engineering Proposal; Statement of Work (SOW); Responsibility Matrix	Undated
	2	NASA: USOS Acceptance and Vehicle Sustaining Engineering Contract, Statement of Work (SOW), Updated	Undated
		Series XXVI: Flight Support Equipment (FSE) & Hardware	
	3	Flight Support Equipment (FSE) Associate Contractor Agreement (ACA), Operation Agreement (OA)	Oct. 2004
	4	Boeing/NASA/ISSP: Flight Support Equipment (FSE) Logistics Support Analysis Record (LSAR) Roles and Responsibilities Strawman	Dec. 15, 2004
	5	Product Support Flight Support Equipment (FSE) Roles and Responsibilities, Draft Series	Feb. 21, 2005
	6	Boeing/ISSP: ISS Returned Integration Flight Hardware and Diagrams	Mar. 22, 2005
	7	Boeing/ISSP: D684 – 12214 – 01, Logistic Support Documentation Illustrated Parts Breakdown – Integrated Main BUS Switching Unit Flight Support Equipment (FSE)	May 5, 2005
	8	C. Laubach Emails to M. Guseman, Hardware, Data Exchange and Attachments	May 2005
	9	Cargo Mission Contract, Contractor Sustained Hardware/Software Attachment J – 1, Appendix 6	Aug. 2005
	10	Boeing: Manifest, Hardware Tracking and Bench Review Procedures Update, Edits/Comments	Oct. 7, 2005
	11	ISSP: Post – DD250'd Flight Support Equipment (FSE) Hardware Changes Cargo Mission vs. 10K Extension Contract Post – Production Support (PPS), Responsibilities	Undated
	12	Pressurized Hardware Processing to Orbit, Presentation/Diagram	Undated
	13	Boeing: Logistics Support Chart with Hardware Data	Undated
32	1	ISS: Hardware Repair Recommendations	Undated

	2	Hardware and Non-hardware Responsibility Matrix Edit Series	Undated
		Series XXVII: Travel	
	3	Trip to Amsterdam, Netherlands for Pitch and Presentation for Bilateral Logistics and Maintenance	Feb. 2001)
	4	Italy Trip	Nov. 11 – 17, 2001
	5	Boeing/NASA/ISS: C. Laubach Trip to Florida for ISS Hardware Disposition Presentation of Joint Directive	Oct. 11 – 13, 2005
	6	Travel Authorization and Expenses	2005
	7	Travel Outside the Country	Undated
	8	Boeing: Travel Documents and Email Information	Undated
	9	Travel Manager System for Boeing	Undated
		Series XXVIII: Budgets, Statements of Work (SOW), & Expenses	
	10	Boeing: Basis of Estimates (BOEs)	Undated
	11	Boeing: Basis of Estimates (BOEs) Training	Undated
	12	Operations Agreements (OA), Statement of Work (SOW), Appendix, Email Correspondence	Undated
	13	Statement of Work (SOW) Trace Remap	Undated
33	1	Sealed Envelope: Expense Reports (handle with care - small papers)	Undated
		Series XXIX: Other Materials and Media	
	2	Texas A&M College: Gear Design Project for Mechanical Engineering	May 16, 1958
	3	C. Laubach Notes from Various Projects from 1963 – 1970s	c. 1963 – 1970s
	4	Term Paper, Proposal and Outline, Spring Semester	Spring 1973
	5	Term Paper: "Motivation of Professional and Technical Personnel during a Reduction in Force and Redefinition of Organizational Goals"	Apr. 28, 1973
	6	Modular Space Lab	Oct. 10, 1974
	7	Various Blueprint Plans	Aug. 1988
	8	Preliminary Results Draft - ISS	May 28, 1998
	9	Boeing: Functional Basis of Estimates (BOEs) Edit Series with Transparencies	Jul. 1999
	10	Kennedy Space Center, Florida, Presentation	2000
	11	Collected Body of Work of Assorted Projects	c. 2000
	12	Supportability Metrics	Aug. 8, 2001
34	1	EP Baseline, All Years Tables	Nov. 1, 2003
	2	Boeing, Various	`2004
	3	Systems Engineering Life Cycle, Support Requirements for Spare ORUs; Ground Processing, Storage/Stowage and Launch Prep/Down Manifesting Presentation	2005
	4	C. Laubach Notebook and Loose Leaf Paper of Hand Written Items	Undated
	5	Handwritten Notes with Contact Information	Undated
	6	Implementation of Concurrent Engineering at MDSSC Presentation	Undated
	7	Collection of Flow Charts (FADs) Function Trees	Undated
	8	Colored Flow Trees	Undated

	9	C. Laubach Personal Information, Photographs, and other Work Information	Undated
	10	Video Tape: Tony Butina, MDSSC – SSD, A95/J835/17B; Huntington Beach, CA	Undated
	11	CD: Military Standard Contract (MIL – STD) 1388 – 2B; Dept. of Defense Requirements for Logistics Support Analysis Record (LSAR) for L – 18	Jan. 21, 1993
	11	CD: Node 2, Logistics Support Analysis Record (LSAR)	Oct. 3, 2002
	12	5 ¼ in. Floppy Disk (2): “U.S. Space History” (x2)	Oct. 15, 1987
	13	Blue Zip Disk: UF – 1 Updated Drawings	Jan. 2001
	13	Gray Zip Disk: E. I. W. Estate & Miscellaneous; Eagle & Gold	Undated
	13	Red Zip Disk: MeLFI	Undated
	13	Gray Zip Disk: Backup Data; Personal Information	Undated
	13	Blue Zip Disk: Logistics and Maintenance (L&M) Files; Backup	Undated
	13	Gray Zip Disk: Logistics and Maintenance (L&M) Working Files	Undated
	13	Green Zip Disk: Data Backup	Undated
35		Boeing: STS Spares Analyses and Depot Requirements, Vol. III, Oversized Presentation Booklet	Sept. 1984
		Edit Series on Tasks, Profiles and Hardwares; NASA/Boeing – 10K Contracts, Oversized File	Oct. 2003
		Boeing: Post-Production Definition Oversized Presentation Sheet	Undated
		Video Tape: McDonnell Douglas, Canopy Removal, Part III Operations (7 mins.)	Jul. 15, 1980
		Video Tape: “A New Dimension in Weapon System Design	Apr. 26, 1985
		Video Tape: Space Station Lecture Series: Logistics, Bob Dellacamera, #12	Jun. 7, 1987
		Video Tape: PR Program; Delta Launch; Titan Launch; THAAD (Animated); Space Station (15 mins.)	Jun. 12
		Video Tape: DAC “Harnessing the Future” and McAir “Cals Video (19 mins. 30 secs.); MDAC – HB “Space Station Concept” and “UWTF” (9 mins. 35 secs.)	Undated
		Video Tape: Neutral Buoyancy Testing at MDAC – HB; EVA Assembly of Large Deployable Reflector (LDR) (~4 mins.); EVA Assembly of Two SS Truss Bags (~6 mins.)	Undated