

CENTER SERIES

HABITABILITY STUDIES LONG-DURATION SPACE MISSIONS

This subseries contains materials relating to habitability aspects of spacecraft and planetary bases on long-duration space missions, and the influences of architecture, food, color, etc. on the morale and productivity of humans in space. This artificial collection was compiled to bring together research on this subject that began with Skylab (1969-1977), continued through space station studies (1985-1988), and finally focuses on advanced planning for a lunar base and Mars mission (1990-1992). The provenance of some of the Skylab documents appears to be Jeri W. Brown, who is currently Division Manager for Lunar/Mars Exploration, Man-Systems Division, Life Sciences Directorate, and interestingly enough is involved and named in the 1990-1992 materials. The provenance of the Planetary Surface Systems (PSS) reviews is Martha Evert, who also works in the Man-Systems Division. The Skylab and Habitability Studies (1985-1988) sections have been arranged chronologically. The remainder of the subseries was originally grouped into the various divisions listed below: MASE/PSS Trade Study Review June 13-14, 1990 LMEO Program Review Board July 16-19, 1990 PSS Technical Status Review Board October 4, 1990 LeRC SEI Review November 8, 1990 PSS Interim Review December 11-13, 1990 PSS Final Review March 26-28, 1991 The documents in these divisions have been integrated in their original order, regardless of date. The subseries ends with the meeting materials of the Human and Habitation Systems, a Level IV group concerned with lunar/Mars programs. The meetings are fairly consistent from June 1990 to January 1992, and are arranged chronologically. Items of interest in this collection are: handwritten notes on Skylab memos concerning divisions of habitability research; the file on various aspects of clothing in space; photographs of AAP garment development; the space station human productivity study volumes; the program chart illustrating the hierarchy of the Human and Habitation Systems Team in the overall program (March 27, 1991); and JSC-23848, Lunar Base "Construction Shack."

Inventory

SubHeading:	Box Number: 1	
SKYLAB	Study of Radiation Hazards to Man on Extended Near Earth Missions	March 25, 1969
SKYLAB	Memo on Habitability support for AAP, Space Station and Space Base (with handwritten commentary on enclosures)	December 24, 1969
SKYLAB	Memos (3) on Habitability for Skylab	February-May 1970
SKYLAB	NASA TM X-1982 Earth-Orbiting Space-Base Crew Skills Assessment	April 1970
SKYLAB	AAP Garment P.R. (28 photos of storage facilities, 14 photos of garments)	1970
SKYLAB	File on hygiene, laundering, and storage of clothing in space	1971-1974
SKYLAB	Skylab Experiment M487 Habitability / Crew Quarters Baseline Data for Environment	February 16, 1973
SKYLAB	Skylab Experiment M487 Habitability / Crew Quarters Baseline Data for Off-Duty Activity Equipment (ODAE)	March 30, 1973
SKYLAB	Skylab Experiment M487 Habitability / Crew Quarters Baseline Data for Personal Hygiene, Equipment and Facilities	April 13, 1973
SKYLAB	Skylab Experiment M487 Habitability / Crew Quarters Baseline Data for Architecture	May 8, 1973
SKYLAB	Drafts of Final Report on Experiment M487 (memos, personal comments from Caldwell Johnson, large sheet comparison of crew debriefs on garments, research, etc.)	1973-1974
SKYLAB	JSC-09677 NASA TM X-58163 Skylab Experiment M487 Habitability / Crew Quarters	October 1975
SKYLAB	Concept Design and Alternate Arrangements of Orbiter Mid-Deck Habitability Features	January 30, 1976

SubHeading:	Box Number: 2	
SKYLAB	JSC-12856 Application of Skylab Workday Analysis to Future Programs	May 1977
SKYLAB	Skylab I - Experiment M-487 Habitability / Crew Quarters	n/d
SKYLAB	Handbook of Garment Selection Criteria for a Space Station	n/d
SKYLAB	Skylab 3 - Experiments M-487 and M-516 Related Crew Debriefing Comments from SWS-Systems Debriefing (tape transcription)	n/d
SKYLAB	Skylab 4 - Experiments M-487 and M-516 Crew Debriefing (tape transcription)	n/d
HABITABILITY STUDIES (1985-1988)	NASA TM-58264 Design Study of an Integrated Aerobraking Orbital Transfer Vehicle	March 1985
HABITABILITY STUDIES (1985-1988)	Space Station Human Productivity Study Final Report - v. 3 - Requirements	November 1985
HABITABILITY STUDIES (1985-1988)	Space Station Human Productivity Study Final Report - v. 4 - Issues	November 1985
SubHeading:	Box Number: 3	
HABITABILITY STUDIES (1985-1988)	Space Station Human Productivity Study Final Report - v. 5 - Issue Study Management Plans	November 1985
HABITABILITY STUDIES (1985-1988)	Space Station Human Productivity Study Final Report - Maintenance Study	July 1986
HABITABILITY STUDIES (1985-1988)	Lunar Base Accommodation Study - Final Report	June 18 - July 10, 1987
HABITABILITY STUDIES (1985-1988)	Advanced Propulsion for LEO-Moon Transport	July 1987
HABITABILITY STUDIES (1985-1988)	Civil Needs Data Base (CNDB)	August 3, 1987
HABITABILITY STUDIES (1985-1988)	Technology Required for New Space Initiatives - Draft	November 13, 1987
HABITABILITY STUDIES (1985-1988)	Lunar OTV and Lander Sizing	March 8, 1988
MISSION ARCHITECTURE SYSTEM ENGINEERING (MASE) / P	PSS Technology Inputs & Recommendations to Code R	June 7, 1990
MISSION ARCHITECTURE SYSTEM ENGINEERING (MASE) / P	Power System Commonality Assessment	June 7, 1990
MISSION ARCHITECTURE SYSTEM ENGINEERING (MASE) / P	Agendas	June 13-14, 1990
MISSION ARCHITECTURE SYSTEM ENGINEERING (MASE) / P	Indigenous Space Resources Utilization (ISRU)	June 14, 1990
MISSION ARCHITECTURE SYSTEM ENGINEERING (MASE) / P	PSS Element / System Sizing and System / Element Commonality	June 14, 1990
SubHeading:	Box Number: 4	
MISSION ARCHITECTURE SYSTEM ENGINEERING (MASE) / P	EVA Systems / Thermal Control Technologies	June 14, 1990
MISSION ARCHITECTURE SYSTEM ENGINEERING (MASE) / P	PSS Communications MASE Trade Study Inputs	June 14, 1990
MISSION ARCHITECTURE SYSTEM ENGINEERING (MASE) / P	Power System Commonality Assessment for Option 1	June 12-13, 1990
MISSION ARCHITECTURE SYSTEM ENGINEERING (MASE) / P	Launch and Landing Systems - Expendable vs Reusable Vehicle and Basing Options	June 14, 1990
MISSION ARCHITECTURE SYSTEM ENGINEERING (MASE) / P	Emplacement Strategies	June 14, 1990
MISSION ARCHITECTURE SYSTEM ENGINEERING (MASE) / P	Humans, Automation, Robotics, Telerobotics (HART)	June 13-14, 1990
LUNAR & MARS EXPLORATION OFFICE PROGRAM REVIEW BOA	Expanding Human Presence	July 16, 1990
LUNAR & MARS EXPLORATION	Technology Content	July 17, 1990

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LUNAR & MARS EXPLORATION OFFICE PROGRAM REVIEW BOA	Science Development and Payloads: Human Expedition Architecture	July 16-17, 1990
LUNAR & MARS EXPLORATION OFFICE PROGRAM REVIEW BOA	PSS Technical Status Review Board Agenda	July 19, 1990
LUNAR & MARS EXPLORATION OFFICE PROGRAM REVIEW BOA	Coordination of the Technology and Advanced Development Programs for SEI POP 90-2	July 17, 1990
LUNAR & MARS EXPLORATION OFFICE PROGRAM REVIEW BOA	Human & Habitation Systems Advanced Development Requirements & Schedules	July 19, 1990
LUNAR & MARS EXPLORATION OFFICE PROGRAM REVIEW BOA	ISRU Requirements Towards Planetary Photonics and Exploration Data Systems	July 19, 1990
LUNAR & MARS EXPLORATION OFFICE PROGRAM REVIEW BOA	Advanced Development - Test Beds Launch and Landing	July 19, 1990
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LUNAR & MARS EXPLORATION OFFICE PROGRAM REVIEW BOA	Surface Transportation/Lunar Robotic Mission	July 19, 1990
LUNAR & MARS EXPLORATION OFFICE PROGRAM REVIEW BOA	Science Development and Payloads: Exploration Emphasis Architecture	July 16-17, 1990
LUNAR & MARS EXPLORATION OFFICE PROGRAM REVIEW BOA	Science Development and Payloads: Evolution Emphasis Architecture	July 16-17, 1990
LUNAR & MARS EXPLORATION OFFICE PROGRAM REVIEW BOA	Science Development and Payloads: Expanding Human Presence Architecture	July 16-17, 1990
PSS TECHNICAL STATUS REVIEW BOARD	Agenda	October 4, 1990
PSS TECHNICAL STATUS REVIEW BOARD	Habitation Systems Sizing	October 4, 1990
PSS TECHNICAL STATUS REVIEW BOARD	Final Results of Tech Development Plan Status of Current Trade Studies	October 4, 1990
PSS TECHNICAL STATUS REVIEW BOARD	Integrated Active Thermal Control Trade Study Status	October 4, 1990
PSS TECHNICAL STATUS REVIEW BOARD	Impacts of Maintaining Liquid Hydrogen on Planetary Surface Systems	October 4, 1990
PSS TECHNICAL STATUS REVIEW BOARD	Lunar Ejecta Analysis Trade Study	October 4, 1990
PSS TECHNICAL STATUS REVIEW BOARD	Thermal and Micrometeoroid Protection for Lunar Excursion Vehicles on the Lunar Surface	October 4, 1990
PSS TECHNICAL STATUS REVIEW BOARD	Power Presentation	October 4, 1990
PSS TECHNICAL STATUS REVIEW BOARD	HART Presentation	October 4, 1990
PSS TECHNICAL STATUS REVIEW BOARD	Emplacement Strategies Study	October 4, 1990
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LEWIS RESEARCH CENTER (LeRC) SPACE EXPLORATION INI	Integrated Shielding Systems for Manned Interplanetary Spacecraft	November 8, 1990
LEWIS RESEARCH CENTER (LeRC) SPACE EXPLORATION INI	Lunar PMAD Study: Plans and Progress	November 8, 1990
LEWIS RESEARCH CENTER (LeRC) SPACE EXPLORATION INI	Lunar In-Core Thermionic Reactor System Conceptual Design	n/d
LEWIS RESEARCH CENTER (LeRC) SPACE EXPLORATION INI	Evaluation of a Particle Bed Reactor Concept for Lunar Surface Power Systems	November 8, 1990
LEWIS RESEARCH CENTER (LeRC) SPACE EXPLORATION INI	Evaluation of Beamed Power for PSS Applications	November 8, 1990
LEWIS RESEARCH CENTER (LeRC) SPACE EXPLORATION INI	Lunar Solar Dynamic Power Generation	November 8, 1990
LEWIS RESEARCH CENTER (LeRC) SPACE EXPLORATION INI	PSS Systems Integration Overview	November 8, 1990

LEWIS RESEARCH CENTER (LeRC) SPACE EXPLORATION INI	Power System Commonality Summary Briefing	November 8, 1990
LEWIS RESEARCH CENTER (LeRC) SPACE EXPLORATION INI	Comparison of Dynamic Isotope Power Systems for Distributed Planetary Surface Applications	n/d
LEWIS RESEARCH CENTER (LeRC) SPACE EXPLORATION INI	Task Order No. 7 - Infrastructure for Deployment of Power Systems	n/d
LEWIS RESEARCH CENTER (LeRC) SPACE EXPLORATION INI	Task Order No. 8 - Issues Concerning Centralized vs Decentralized Power Deployment	n/d
LEWIS RESEARCH CENTER (LeRC) SPACE EXPLORATION INI	Task Order No. 9 - Nuclear Safety for Human Exploration Mission	n/d
LEWIS RESEARCH CENTER (LeRC) SPACE EXPLORATION INI	Task Order No. 13 - Evolutionary Space Infrastructure PMAD, Requirements and Concepts	November 8, 1990
PSS INTERIM REVIEW	Agenda and Phone numbers	December 11-13, 1990
PSS INTERIM REVIEW	Welcome, Expectations, Long Range Plans	December 11-13, 1990
PSS INTERIM REVIEW	Requirements Development	December 11, 1990
PSS INTERIM REVIEW	Technology / Advanced Development	December 11, 1990
PSS INTERIM REVIEW	Emplacement Strategies Update	December 11, 1990
PSS INTERIM REVIEW	Use of Antarctic Analogs to Support the Space Exploration Initiative	November 1990
PSS INTERIM REVIEW	Antarctic Analog Project Plan for PSS (Preliminary)	December 11, 1990
PSS INTERIM REVIEW	Advance Copy of the Summary and Principal Recommendations of the Advisory Committee on the Future of the U.S. Space Program, Augustine Committee	December 10, 1990
PSS INTERIM REVIEW	Human and Habitation Systems Presentation	December 12, 1990
PSS INTERIM REVIEW	Habitat Systems Study / TCS Radiator Shading	December 12, 1990
PSS INTERIM REVIEW	Integrated Active Thermal Control System Study	December 13, 1990
PSS INTERIM REVIEW	EVA Systems	December 12, 1990
PSS INTERIM REVIEW	Central Communications System	December 12, 1990
PSS INTERIM REVIEW	Indigeneous Space Materials Utilization	December 13, 1990
PSS INTERIM REVIEW	HART Presentation	December 11-13, 1990
PSS INTERIM REVIEW	Integrated Logistics Support and SRM & QA Update	December 13, 1990
PSS INTERIM REVIEW	Impacts of Maintaining Liquid Hydrogen on Planetary Surface Systems	December 13, 1990
PSS INTERIM REVIEW	Launch and Landing Agenda	December 13, 1990
PSS INTERIM REVIEW	PSS Midterm Review	December 11-13, 1990
PSS INTERIM REVIEW	Health Care Systems	December 12, 1990
PSS INTERIM REVIEW	Pressurized Rover for Lunar Exploration	December 11, 1990
PSS INTERIM REVIEW	Surface Transportation Vehicles	December 11, 1990
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PSS FINAL REVIEW	Agenda, Attendees	March 26-28, 1991
PSS FINAL REVIEW	Operations Analysis for the PSS Office	March 26, 1991
PSS FINAL REVIEW	Integrated Logistics Support and SRM & QA	March 26, 1991
PSS FINAL REVIEW	Robotic Deployment, Assembly and Servicing of Scientific Payloads on the Lunar Surface - Phase 1	March 1, 1991
PSS FINAL REVIEW	Deployment and Servicing of Scientific	March 27, 1991

	Payloads Prior to Crew Presence	
PSS FINAL REVIEW	Central Communications System	March 26, 1991
PSS FINAL REVIEW	Lunar Surface Mining Equipment	March 26-28, 1991
PSS FINAL REVIEW	A Study of Health Monitoring and Countermeasures in Planetary Exploration Missions	March 27, 1991
PSS FINAL REVIEW	Pressurized Lunar Rover Radiation Analysis	March 1991
PSS FINAL REVIEW	Final Report of the Human and Habitation Systems Team (Program chart)	March 27, 1991
PSS FINAL REVIEW	Initial Lunar Outpost, Life Support System, Preliminary Systems Assessment	March 28, 1991
PSS FINAL REVIEW	Launch & Landing Functional Area	March 26-28, 1991
PSS FINAL REVIEW	Power Systems	n/d
PSS FINAL REVIEW	Impacts of Maintaining Liquid Hydrogen on Planetary Surface Systems	March 28, 1991
PSS FINAL REVIEW	Crew Station Integration	n/d
PSS FINAL REVIEW	Thermal Control System, Radiator Shading Trade Study	March 27, 1991
PSS FINAL REVIEW	Physiochemical and Biological LSS Options	March 27, 1991
PSS FINAL REVIEW	Internal Atmospheric Pressure and Composition for Planet Surface Habitats and Extravehicular Mobility Units	March 27, 1991
PSS FINAL REVIEW	Bureau of Mines, Research on Utilization of Extraterrestrial Resources, List of Publications	August 22, 1990
PSS FINAL REVIEW	ISMU	March 27, 1991
PSS FINAL REVIEW	PSS / STV Final Review	March 27, 1991
PSS FINAL REVIEW	Space Exploration Initiative (SEI) promotional material	March 14, 1991
PSS FINAL REVIEW	Copy of Vice-President's letter on Space Station Freedom; miscellaneous PSS material	March 20, 1991
PSS FINAL REVIEW	Emplacement Strategies Study	March 26, 1991
PSS FINAL REVIEW	EVA Systems	March 26-28, 1991
PSS FINAL REVIEW	HART Studies Presentation	March 26-28, 1991
PSS FINAL REVIEW	Integrated Active Thermal Control System Study	March 26, 1991
PSS FINAL REVIEW	Operations	March 26, 1991
HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	JSC-23848 Lunar Base "Construction Shack"	August 25, 1989
HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Team Meeting Material	June 18, 1990
HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Action Item 90-10	June 18, 1990
HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Lunar / Mars Food System Trade Study	June 21, 1990
HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Team Meeting Materials	June 27, 1990
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HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Action Item 90-12	June 29, 1990
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HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Team Meeting Materials	July 10, 1990
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HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Team Meeting Materials	August 10, 1990
HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Team Meeting Materials	August 15, 1990
HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Team Update, Time Table, Sub-Teams	August 28, 1990
HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Actions Items 90-16 and 90-17 Crew Accommodations Technology Development Needs	August 28, 1990
HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Team Meeting Materials; Crew Accommodations Evaluation	September 5, 1990
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HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Team Meeting Materials	September 25, 1990
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HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Action Item 91-2	October 30, 1990
HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Life Support Advanced Development Plan	October 1990 - January 19
HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Parametric Sizing Report	November 2, 1990
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HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Action Item 91-4	November 27, 1990
HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	PSS Human and Habitation Systems Response to Synthesis Group Habitat Working Group - A Priori Questions	November 27, 1990
HUMAN HABITATION SYSTEMS -	Electrolysis Performance	November 1990

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HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Trade Study K4-F21	November 1990-February 19
HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Crew Accommodations Logistics Parameters	December 3, 1990
HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Team Meeting Materials	December 4, 1990
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HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Action Item 91-6a	February 6, 1991
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HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Action Item 91-12	July 2, 1991
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HUMAN HABITATION SYSTEMS - TEAM MEETING MATERIALS	Initial Lunar Habitat Evaluation	September 4, 1991
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