

## CENTER SERIES

### NEW INITIATIVES OFFICE

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#### Inventory

<b>SubHeading:</b>	<b>Box Number: 001</b>	
	Pathfinder Planetary Rover Intercenter Working Group Meeting Proceedings sponsored by the Office of Aeronautics and Space Technology ( OAST )	April 19-20, 1989
	New Initiative MSFC Study Activity Plan for January - July 1990	January 8, 1990
Planet Surface Systems	Surface System for the Space Exploration Initiative	August 3, 1990
	First Pass Synthesis Review	June 29, 1988
Office of Exploration	Final Review FY88 Exploration Studies Technical Presentation to the Administrator	July 25, 1988
	PSS ( Planet Surface Systems ) Element Descriptions	June 1988
Planet Surface	Management Plan for Extraterrestrial Surface Systems / Preliminary Draft / Version 1	November 18, 1988
	Office of Exploration Configuration Control Board Management Plan Baseline Input	March 10, 1988
	Office of Exploration ( OEXP ) Analysis Tools Workshop	June 21-22, 1988
	Exploration Studies Office and Lunar and Mars Exploration Office Scenario Development Tools and Facilities Workshop	May 16-18, 1988
Kyle Fairchild / IZ2 Manager	Data Base Task Team OEXP ( Office of Exploration ) / MASE ( Mission Analysis System Engineering & Integration ) Level II Tools and Data Bases, Final Report to LMEO / MASE Management	July 1, 1988
<b>SubHeading:</b>	<b>Box Number: 001 *</b>	
Office of Exploration	Exploration Planning Status Report by the Exploration Management Group. Presentation to Dr. Fletcher / * All 50 pages of this document have been scanned	April 22, 1988
<b>SubHeading:</b>	<b>Box Number: 002</b>	
LALP-84-43	Report of the Lunar Base Working Group	April 23-27, 1984
	The Environment at the Lunar Surface. Paper given by G. Jeffrey Taylor of Department of Geology and Institute of Meteoritics, University of New Mexico, Albuquerque, NM	
	Planet Surface Systems for the SEI ( Space Exploration Initiative ), presented to the Synthesis Group	August 21, 1990
	The Case for Mars IV, The International Exploration of Mars	June 4-8, 1990
	Planet Surface Systems ( PSS )	August 17, 1990

	Architecture White Papers from the Planet Surface Systems Office	
	Planet Surface Systems's ( PSS ) Integrated Advanced Development Plan, Preliminary Copy	August 16, 1990
	Human-Nuclear Radiation Issues for Exploration Missions	
NASA Technical Memo 102064.	Space Nuclear Reactor Shields for Manned and Unmanned Applications, Prepared for the International Conference on Space Power	June 5-7, 1989
Albert C. Marshall, Barbara I. McKissock	Scaling Study for SP-100 Reactor Technology	
Andrew Klein, Harvey Bloomfield	Scattered Neutron Radiation From a Nuclear Power Source Sited in a Lunar Excavation	
Harvey Bloomfield	Overview of NASA Radiation Exposure Limit Guidelines for Spaceflight Crewmembers	
	A Radiological Assessment of Space Nuclear Power Operations Near Space Station Freedom	
	Preliminary Assessment of the Power Requirements of a Manned Rover for Mars Missions. Paper presented at the 2nd International Construction and Operation in Space.	April 23-26, 1990
	Conceptual Studies on the Integration of a Nuclear Reactor System to Manned Rover for Mars Missions	
	Protoflight Photovoltaic Power Module System-Level Tests in the Space Power Facility. NASA, Lewis Research Center	
<b>SubHeading:</b>	<b>Box Number: 002 *</b>	
	Summary of Non-Proprietary Contractor Presentations given to Lunar and Mars Exploration Program Office ( LMEPO ) * All 42 pages of this document have been scanned	July 11, 1990
<b>SubHeading:</b>	<b>Box Number: 003</b>	
Joseph Applebaum and Dennis J. Flood, Lewis Research Center, NASA	Photovoltaic Power System Operation in the Mars Environment ( 899436 )	
Bloomfield and Nainiger, NASA Lewis Research Center	NASA Needs for Advanced Nuclear Power Systems. NASA Lewis Research Center	
NASA Lewis Research Center	Performance Comparisons of Nuclear Thermal Rocket and Chemical Propulsion Systems for Piloted Missions to Photos / Mars	
Paul Schmitz / Sverdrup Technology	Performance Analysis of Space Reactor / Stirling Cycle Systems	
Mohamed S. El-Genk, Nicholas J. Morley	Conceptual Studies on Integration of Nuclear Power Systems to a Manned Rover for Mars Missions / Progress Report June 1989 / NASA Grant #NAG3-992	July 5, 1989
Lewis Research Center	Cryogenic Reactant Storage for Lunar Base Regenerative Fuel Cells / Prepared for the International Conference on Space Power / NASA Technical Memo 101980	June 5-7, 1989
AeroVironment Inc.	Mars Solar Rover Feasibility Study / Final Report ( AV-FR-89/7011 )	October 1989
Advanced Space Analysis Office	SP-100 Thermoelectric Lander / Presentation to the OEXP ( Office of Exploration ) Working Group Meeting	February 22, 1989
OEXP Working Group #4,Advanced Space Analysis Office	Mars / Phobos / Deimos Power System Study	July 13, 1989

Lloyd G. Gordon, Space Power Institute	Design Considerations for Lunar Base Transmission Systems	September 8, 1988
	Conceptual Studies on the Integration of Nuclear Reactor Systems to Manned Mars Rover Missions, Part 1 / Report No. ISNPS-NAG 3-992/89	October 1989
General Electric	SP-100 Reactor Scalability Study Final Briefing Package / Contract No. DE-AC03-89SF17787	August 2, 1989
	Lunar and Mars Exploration Program Office ( LMEPO ) Review Board Presentations	August 7, 1990
Prepared for Case for Mars III	Energy Storage Considerations for a Robotic Mars Surface Sampler / NASA Technical Memo 100969.	July 18-22, 1988
NASA Technical Memo 102090	SP-100 Power System Conceptual Design for Lunar Base Applications.	January 8-12, 1989
NASA Technical Memo 102015	Comparison of Solar Photovoltaic and Nuclear Reactor Power Systems for a Human-Tended Lunar Observatory	August 6-11, 1989
<b>SubHeading:</b>	<b>Box Number: 003*</b>	
Lunar & Mars Exploration Program Office	Issues Affecting Science Program Development / *All 33 pages of this document have been scanned	August 1990
<b>SubHeading:</b>	<b>Box Number: 004</b>	
	ACI Materials Journal / A Journal of the American Concrete Institute	September-October 1990
D615-10016	Boeing's Monthly Progress Report #11 for June 1990 / Space Transfer Concepts and Analysis for Exploration Missions / NASA Contract NAS8-37857	September 25, 1990
NASA Innovation Outreach Program, Office of Exploration	Final Report on: Design Considerations of a Lunar Solar Cell Production Plant	October 3, 1989
Corinne M. Buoni, Science Applications International Corporation	Preliminary Results of an Assessment of Planetary Surface System Technologies and Concepts for the Exploration of Space	
Dean Eppler, Lunar and Mars Exploration Program Office	Lighting Constraints to Lunar Surface Operations / Transmittal of Viewgraph Package	September 5, 1990
	Final Draft Input for NASA Presentation to the Synthesis Group / Planet Surface System ( PSS ) Segment of the SEI ( Space Exploration Initiative )	September 7, 1990
	Planet Surface Systems Implementation Strategy for the Human Expedition Architecture / Draft White Paper	September 6, 1990
NASA Engineering Directorate	Planet Surface Engineering Matrix Organization Requirements	
NASA Ames Research Center, Advanced Life Support Division	Ames Research Center Regenerative Life Support SE & I Activities, Presented to Planet Surface Systems Office, JSC	September 18, 1990
	Mars Outpost: System and Operations Challenges / Presented to the AIAA Space Programs and Technologies Conference 1990	September 25-27, 1990
	Planet Surface Systems ( PSS ) Office SE&I Organization	September 18, 1990
Office of Aeronautics, Exploration and Technology	NASA Presentation to Space Exploration Initiative ( SEI ) Synthesis Group	September 25, 1990
	DoD ( Department of Defense ) / USACE Input to SEI ( Surface	

	Operations ) / Charter / Purpose / SEI90-G-0298	
	PSS ( Planet Surface Systems ) Technology Requirements Against Exploration Technology Program	October 1, 1990
<b>SubHeading:</b>	<b>Box Number: 004 *</b>	
	Space Station Freedom ( SSF ) Organizational Charts & Responsibilities * this 25 page document has been scanned	November 15, 1989
<b>SubHeading:</b>	<b>Box Number: 004*</b>	
Carl M. Case, Boeing	Space Exploration Initiative Synthesis Group Briefing / *This entire document has been scanned as saved as CENTER-NIO-004-SEI SYNTHESIS GP BRIEF	September 11, 1990
	Presentation to SEI Synthesis Group from the Lockheed Team ( Lockheed, Bechtel, SAIC ) / *This entire document has been scanned and saved as CENTER-NIO-004-PRES TO SEI SYNTHESIS-LOCKHEED	September 7, 2990
<b>SubHeading:</b>	<b>Box Number: 005</b>	
Contract No. NASW-4457	Evaluation of Design Alternatives for the Exploration of Mars by Balloon	February 2, 1990
Contract Number NASW-4453	Final Report / Deployable Magnetic Radiation Shields Using High Tc Suerconductors	
Walter W. Yuen, University of California. Contradr No. NASA NASW- 4489	Project Report / A Small Particle Catalytic Thermal Reactor ( SPCTR ) for the Conversion of CO and CO2 to Methane in a Gravity-Free Environment	
Contract NASW-4478 / Orbitec Technologies	Final Report on the Use of Tethered Platforms to Recover, Store and Utilize CO2 From the Mars Atmosphere for On-Orbit Propellants, for Innovative Outreach Program	May 23, 1990
Innovative Management Concepts, Inc. Contract No. NASW-4458	An Early Warning System for Monitoring and Evaluating Progress on Large Projects, Phase I / Data Acquisition Methods and Industry Reaction	April 30, 1990
Contract NASW-4456	Final Report / Determination of the Concentration of Spacecraft Cabin Gases Using Laser Spectroscopy / Submitted to the Office of Exploration Innovative Outreach Program	March 20, 1990
Contract NASW-4468. B	Pneumatic Structures for Lunar and Martian Habitats / Final Report	April 20, 1990
Contract No. NASW-4455 / University of North Dakota Energy & Environmental Research Center	Further Investigation of the Feasibility of Applying Low-Temperature Plasma Technology to a Closed-Loop Processing Resource Management System / Final Report	March 1990
Martin Marietta Astronautics Group	Nuclear Thermal Rocket Using Indigenous Martian Propellents / Final Report	April 1990
Contract No. NASW-4454	Design of a Portable Radiation Shield for Use in Space Exploration Activities / Final Report	April 1990
Contract NASW-4476	Aluminum / Oxygen Propellant Rocket Engines for Lunar Transport Applications / Final Report.	May 23, 1990
	Minutes of the Fourth Mars Science Working Group, held at NASA Ames Research Center	November 29-30, 1990
<b>SubHeading:</b>	<b>Box Number: 006</b>	
Arnold D.Aldrich	Copy of a recent Arnie Aldrich speech	January 18, 1991

	/ NASA and the Space Exploration Initiative / Remarks at the Eighth Symposium on Space Nuclear Power Systems	
LMEPO / Donna Blackshear	Mission Management / Exploration Hardware / WBS 8.0, 9.0 Budget Review to the JSC Center Director	August 24, 1990
	Compilation of Lunar Geotechnical Engineering Data from December 4, 1990 Presentation by David Carrier	February 8, 1991
JPL	NASA Planetary Rover Program / JPL 1990 Annual Technical Report	January 15, 1991
Lewis Peach	SEI Long-Range Plan / Draft / Presented to Level I / II / III Meeting	January 30-31, 1991
Advanced Life Support Division, NASA / Ames Research Center	Integrated Monthly Project Management Report ( PMR )	June 1990
NASA, LBJ Space Center	Tutorial on Space Radiation and the Space Exploration Initiative	December 14, 1990
	Notes / Comments / Observations From the Sand & Dust on Mars Workshop	February 7, 1991
Dean Eppler, LMEPO	Robotic Precursor in Support of Project Apollo / Data Requirements, Program Review and Evaluation of Results	January 17, 1991
	Integrated Monthly Project Management Report ( PMR ) for Advanced Life Support Programs	July 1990
John H. Kehrbaum	Rockwell Lunar and Planetary Systems Functional Flow Analysis	September 1988
Ron Caldwell	Rockwell International Lunar and Planetary Missions Team / Mission Scenario 1.3.4, Manned Marsbase Establishment	June 24, 1988
	Space Exploration Initiative / Planet Surface Systems / Humans Automation Robotics Telerobotics Integrated Summary Trade Studies Interim Report	November 21, 1990
Marshall Space Flight Center	Space Exploration Initiative ( SEI ) Lunar Transportation Systems Study Results for January - July 1990 / Volume I / Executive Summary	September 1990
	Thermionic Reactor Meetings & Program Status Trip Report / Follow-up Information Relative to Presentation of 5 Decmeber	December 19, 1990
<b>SubHeading:</b>	<b>Box Number: 007</b>	
	Human Exploration of the Moon and Mars / Summary of the 90-Day Study	January 18, 1990
	The Space Summit / an International Conference on Manned Space Exploration / Agenda	June 3-6, 1990
	Summary / National Space Club Space Summit	June 3-6, 1990
Barney Roberts, 29th Aerospace Sciences Meeting	NASA Evolution of Exploration Architectures	January 7-10, 1991
US Corps of Engineers	Report of Joint NASA-USACE Task Force on Planetary Surface Systems Partnership / Draft	December 1990
	Planet Surface Systems Requirements Against Exploration Technology Program	October 3, 1990
	Analysis of Surveyor 3 Material and Photographs Returned by Apollo 12	
	Space Exploration Initiative ( SEI ) Lunar Transportation Systems Study Results for January - July 1990 /	September 1990

	Volume II / Single Propulsion / Avionics Module Conceptual Design	
	Space Exploration Initiative ( SEI ) Lunar Transportation Systems Study Results for January - July 1990 / Volume III / LTS Options, Trades, Sensitivities	September 1990
Thomas Styczynski / Lockheed	Antarctic Planetary Analog	January 24, 1991
	Planet Surface Systems ( PSS ) Overview / PSS Products / Near Term Activities / Content and Schedules for POP Submit	April 17, 1990
<b>SubHeading:</b>	<b>Box Number: 008</b>	
McDonnell Douglas Space Systems Company/ Kennedy Space Center	Trade Study Thermal and Micrometeoroid Protection for Lunar Excursion Vehicles on the Lunar Surface	November 1, 1990
	Planet Surface Systems Science Accommodations at Mars, Mars Exploration Systems	December 20, 1990
Rocketdyne, Rockwell International	Nuclear Reactor Lunar Surface Power Systems	
	Space Avionics Requirements Study / Infrastructure Study TD006 / Final Review	October 21, 1990
Robert Corban	Cost / Benefits Analysis	
McDonnell Douglas Space Systems Company / Kennedy Space Center	Lunar Ejecta Analysis Trade Study	October 4, 1990
Mark K. Craig	NASA Presentation to Space Exploration Initiative ( SEI ) Synthesis Group	September 25, 1990
	Critical Issues for Establishment of a Permanently-Occupied Lunar Base / Thesis by Paul C. Kent II, Captain, USAF	November 20, 1987
Madhu Thangavelu	MALEO / Modular Assembly in Low Earth Orbit, an Alternative Strategy for Lunar Base Development / IAF-90-443	October 6-12, 1990
IAF-90-670	Space Suits and Life Support Systems for the Exploration of Mars	1990
	" Common Base " Surface Facilities for the Space Exploration Initiative	October 6-12, 1990
	Innovative Outreach Program Report Evaluations	October 23, 1990
McDonnell Douglas Space Systems Co.	Trade Study Thermal and Micrometeoroid Protection for Lunar Excursion Vehicles on the Lunar Surface	October 19, 1990
General Dynamics	GDSS Technology Development Plan Summary	October 25, 1990
Eagle Engineering Report No. 90-293	In Situ Production of Propellants for the Minimum Approach Scenario	September 30, 1990
<b>SubHeading:</b>	<b>Box Number: 009</b>	
	The Office of Exploration FY 1989 Annual Report / Exploration Studies Technical Report / Volume III / Planetary Surface Systems	1989
	The Office of Exploration FY 1989 Annual Report / Exploration Studies Technical Report / Volume IV / Nodes and Space Station Freedom Accommodations	1989
	The Office of Exploration FY 1989 Annual Report / Exploration Studies Technical Report / Volume V / Technology Assessment	1989
	Rapid Pumpdown Feasibility Study LH2 MLI Ascent / Thermal Tests,	November 6, 1990

	NASA LeRC Plumbrook Site, K-Site Test Facility, B-2 Test Facility	
LeRC SEI Review	On-Orbit Cryogenic Fluid Transfer System / Results of Ground-Test Program	November 6, 1990
	Tanker Assessment / Single Propulsion & Avionics ( P / A ) Concept / Expendable Tank Assembly	November 6, 1990
	Lewis Research Center ( LeRC ) SEI ( Space Exploration Initiative ) Studies Review / Advanced Propulsion	November 7, 1990
LMSC Life Support Development Laboratory	Lunar Thermal Environment Database	April 19, 1990
JPL	FY90 Final Space Exploration Initiative ( SEI ) Science Payloads / Descriptions and Delivery Requirements	October 31, 1990
	The Office of Exploration FY 1989 Annual Report / Exploration Studies Technical Report / Volume 0 / Journey into Tomorrow	1989
	The Office of Exploration FY 1989 Annual Report / Exploration Studies Technical Report / Volume I / Mission and Integrated Systems	1989
	The Office of Exploration FY 1989 Annual Report / Exploration Studies Technical Report / Volume II / Space Transportation Systems	1989
<b>SubHeading:</b>	<b>Box Number: 010</b>	
E.C. Cady, McDonnell Douglas Space Systems Company	Fuel Systems Architecture Summary. NASA-LeRC SEI Review.	November 5-9, 1990
LeRC Program Review	Centaur-Derived Lunar Transfer Vehicle First Year Feasibility Study	November 6, 1990
Jeffrey A. George, Advanced Space Analysis Office	Integrated Shielding Systems for Manned Interplanetary Spacecraft. LeRC SEI Review.	November 8, 1990
Lewis Research Center, SEI Review	SEI Low Thrust Propulsion Team Activities 1990	November 7, 1990
Task Order No. 7, NAS3-25809	NEP Performance for 2016 Mars Opposition-Class Missions. Final Report Presentation, Propulsion System Assessment Studies	November 7, 1990
Lewis Research Exploration Initiative Review	NTR Stage Commonality for Lunar / Mars Missions. Study Status Report, Task 9, NASA Contract NAS3-25809	November 7, 1990
LeRC	Communications for SEI ( Space Exploration Initiative ). Quarterly Review by the Communications Program Development Team	November 5, 1990
SAIC	Nuclear Thermal Rocket ( NTR ) Engine System Assessment--Status Review. Contract No. NA53-25809	November 7, 1990
Rockwell	Ultra-High Power Space Nuclear Power System Design and Development	
Stanley K. Borowski, Advanced Space Analysis Office	Nuclear Thermal Rocket Propulsion Studies for Lunar / Mars Transportation System Applications	November 7, 1990
Mike Stancati, SAIC	Evaluation of Nuclear Thermal Rocket ( NTR ) for Lunar Missions. Task Order Briefing. Contract #NAS2-25809	November 7, 1990
Glen Horvat, Steve Alexander, Kris Gessner	Mars Trajectory Analysis Status Report. LERC Space Exploration Initiative Review.	November 7, 1990
Robert Corban	Cryogenic Fluid Management Systems Team Overview	November 6, 1990
Hubert Davis, Davis Aerospace Company	Preliminary Assessment of the Moon as a Source of Energy for Earth	August 22, 1990

R.H. Knoll	Advanced Insulation System Analysis. MLI Technology Needs for SEI Missions	November 6, 1990
	Lewis Research Center ( LeRC ) Space Exploration Initiative ( SEI ) Studies Review	November 5, 1990
Scott Benson	Transportation Systems Integration Overview / LeRC SEI ( Space Exploration Initiative ) Review	November 6, 1990
C.H. Williams	Centaur Evolution for Future Unmanned NASA Missions. SEI Review	November 6, 1990
LeRC	ETO Tanker Schematic	1990
JPL	Nuclear Vehicle Orbit Basing Study. Presentation to Lewis Research Center, Advanced Space Analysis Office	November 7, 1990
<b>SubHeading:</b>	<b>Box Number: 011</b>	
	Subtask 1 -- Power System Commonality -- Summary Briefing / LeRC SEI Review	November 8, 1990
	Nuclear Safety for Human Exploration Mission / LeRC SEI Review	November 8, 1990
	Cryogenic Space Engine	November 5-9, 1990
Timothy Wickenheiser	Transportation Systems / Subsystem Development Team / LeRC Space Exploration Initiative Review Team Overview	November 6, 1990
Bob Cataldo	Planet Surface Systems Integration Overview / LeRC SEI ( Space Exploration Initiative ) Review	November 8, 1990
	Power Systems Development Team Overview / LeRC SEI ( Space Exploration Initiative ) Review	November 8, 1990
	Lunar In-Core Thermionic Reactor System Conceptual Design / LeRC SEI ( Space Exploration Initiative ) Review	November 8, 1990
	Evaluation of a Particle Bed Reactor Concept for Lunar Surface Power Systems / LeRC SEI ( Space Exploration Initiative ) Review	November 8, 1990
	Lunar Solar Dynamic Power Generation / LeRC SEI ( Space Exploration Initiative ) Review	November 8, 1990
	Evaluation of Beamed Power for Planetary Surface System Applications / LeRC SEI ( Space Exploration Initiative ) Review	November 8, 1990
	Comparison of Dynamic Isotope Power Systems for Distributed Planetary Surface Applications / LeRC SEI ( Space Exploration Initiative ) Review	November 8, 1990
	Comparison of Power System Alternatives for SEI Rovers / LeRC SEI ( Space Exploration Initiative ) Review	November 8, 1990
	Task Order No. 13 / Evolutionary Space Infrastructure PMAD Requirements and Concepts / LeRC SEI ( Space Exploration Initiative ) Review	November 8, 1990
	Issues Concerning Centralized vs. Decentralized Power Deployment / LeRC SEI ( Space Exploration Initiative ) Review	November 8, 1990
	Lunar PMAD Study : Plans & Progress / LeRC SEI Review	November 8, 1990
	Infrastructure for Deployment of Power	November 8, 1990



	Systems / LeRC SEI Review	
	Integrated Shielding Systems for Manned Interplanetary Spacecraft / LeRC SEI Review	November 8, 1990
	Power SE&I ( Space Exploration & Initiative ) Interim Status Report	November 2, 1990
	Lunar Transportation Facilities and Operations Study -- Midterm Report	December 5, 1990
	The Planetary Society -- Memo from Carl Sagan	April 18, 1990
	Johnson Space Center Roles and Responsibilities	February 4, 1991
<b>SubHeading:</b>	<b>Box Number: 011*</b>	
	NASA Letter to Barney Roberts -- Much Has Happened with the Space Exploration Initiative / *All 6 pages of this document have been scanned	February 11, 1991
<b>SubHeading:</b>	<b>Box Number: 012</b>	
	Maximizing the Effectiveness of the First Humans on Mars	July 16, 1990
	Technologies for Space Exploration Presentation at JSC / United Technologies Corporation	May 17, 1990
	Preliminary Results of an Assessment of Planetary Surface System Technologies and Concepts for the Exploration of Space	1990
	Human Transportation Systems for Lunar / Mars Outposts : Initial Engineering Considerations	May 1990
	SNPSAM ( Space Nuclear Power System Analysis Model )	1986
Intersociety Energy Conversion Conference	SP-100 Alternative Designs	1987
	SP-100 Control System Modeling	January 12-16, 1987
	Space Transfer Concepts and Analysis for Exploration Missions / Fourth Quarterly Review	October 17, 1990
Richard Wallace	SP-100 Missions Overview	1985
Bob Parkinson	Small High-Technology Communities on the Moon	
	SNAP-10A Aerospace Nuclear Safety: A Good Foundation for the SP-100 Program	1984
	SP-100 System Modeling: SNPSAM ( Space Nuclear Power System Analysis Model ) Update	January 12-16, 1987
	SP-100 Space Nuclear Power System	
	SP-100 Reactor Design	1987
	Study of Conjunction Class Manned Mars Trips: Volume I	1965
	Study of Conjunction Class Manned Mars Trips: Volume II	1965
<b>SubHeading:</b>	<b>Box Number: 013</b>	
	Space-Related Organizations in Japan	March 21, 1991
	Planet Surface Systems Review Presentations -- Welcome / Expectations / Long Range Plans	December 11-13, 1990
	Planet Surface Systems Review Presentations -- Requirements Development	December 11, 1990
	Planet Surface Systems Review Presentations -- PSS' Technology / Advanced Development	December 11, 1990

	Planet Surface Systems Review Presentations -- Emplacement Strategies	December 11, 1990
	Planet Surface Systems Review Presentations -- Antarctic Analog Project Plan for PSS ( Preliminary )	December 11-13, 1990
	Planet Surface Systems Review Presentations -- Pressurized Rover for Lunar Exploration	December 11, 1990
	Planet Surface Systems Review Presentations -- Surface Transportation Vehicles	December 11, 1990
	Planet Surface Systems Review Presentations -- Human & Habitation Systems SE&I	December 12, 1990
	Planet Surface Systems Review Presentations -- Habitat Systems Study TCS Radiator Shading	December 12, 1990
	Planet Surface Systems Review Presentations -- Health Care Systems	December 12, 1990
	Planet Surface Systems Review Presentations -- EVA Systems	December 12, 1990
	Planet Surface Systems Review Presentations -- Power	December 11-13, 1990
	Planet Surface Systems Review Presentations -- Central Communications System	December 12, 1990
	Planet Surface Systems Review Presentations -- Indegenous Space Materials Utilization	December 13, 1990
	Planet Surface Systems Review Presentations -- Hart Presentation	December 11-13, 1990
	Planet Surface Systems Review Presentations -- Operations	December 13, 1990
	Planet Surface Systems Review Presentations -- Integrated Active Thermal Control System Study	December 13, 1990
	Planet Surface Systems Review Presentations -- Integrated Logistics Support and SRM&QA ( Safety, Reliability, Maintainability, and Quality Assurance ) Update	December 13, 1990
<b>SubHeading:</b>	<b>Box Number: 014</b>	
McDonnell Douglas	Planet Surface Systems Interim Review Presentations -- Planetary Surface Systems Midterm Review	December 11-13, 1990
	SP-100 Project Flight Readiness Matrix	February 28, 1991
	Human Performance Special Emphasis Team : Senior Staff Briefing	February 4, 1991
NASA, Office of Commercial Programs, Technology Utilization Division	Spinoff	August 1989
Edited by Curt Bilby and George Kozmetsky	Modeling and Advance Simulation of Advanced Space Programs	1991
	SEI ( Space Exploration Initiative ) Level I/II/III/IV Meeting: Program Control Process	April 15, 1991
Wetch, Nelin, Britt, Klein	Reactor Power System Deployment and Startup	1984
El-Genk, Seo	Trends and Limits in the Upgrading of Sp-100 Baseline Design of Nuclear Powered Space System	1985
Weaver, Laursen	Techniques for the Utilization of Extraterrestrial Resources	October 8-15, 1988
Paul Penzo	A Survey of Tether Applications to Planetary Exploration	

James Lesh	System Concepts and Design Examples for Optical Communication	1986
Arnold D. Aldrich	Subcommittee on Space : Committee on Science, Space and Technology. House of Representatives	March 13, 1991
	Enabling Milestones for an Integrated Mars Exploration Program	December 20, 1991
Carl M. Case	Lunar Campsite Concept	February 1991
Presented to PSS	General Dynamics Space Systems Division: Advanced Systems and Technology	April 10, 1990
Mars Science Working Group	A Strategy for the Scientific Exploration of Mars	February 1991
<b>SubHeading:</b>	<b>Box Number: 015</b>	
Steward Johnson	Lunar Dust : Implications for Astronautical Observations	April 1-4, 1991
C.D. Fletcher	Simulation of the Preliminary General Electric SP-100 Space Reactor Concept Using the ATHENA Computer Code	January 13-16, 1986
	Space Exploration Initiative, Planet Surface Systems, Humans / Automation/Robotics / Telerobotics : Robotic Manipulation Systems Concepts	March 26, 1991
	Space Exploration Initiative, Planet Surface Systems : Robotic Systems Design Standards ( RSDS ) -- Preliminary	March 26, 1991
PSS Office	Precursor Lunar and Mars Surface Engineering Data Needs	March 1991
	Space Exploration Initiative, Planet Surface Systems : Robotic Systems Integration Standards( RSIS ) -- Preliminary	March 26, 1991
	Space Exploration Initiative, Planet Surface Systems, Humans / Automation/Robotics / Telerobotics: Integrated Summary	March 26, 1991
	Space Exploration Initiative, Planet Surface Systems : Intelligent Systems Design and Integration Standards ( ISDIS ) : Preliminary	March 26, 1991
	Space Exploration Initiative, Planet Surface Systems, Humans / Automation / Robotics / Telerobotics : Option 5A Mission Analysis	March 26, 1991
	Planet Surface Systems Operations and Logistics Concept -- Draft	March 26, 1991
	MOD Advanced Programs Exploration Program Support Base Self- Sufficiency -- White Paper-Draft	January 31, 1991
	MOD Advanced Programs Exploration Program Support Crew Schedule -- White Paper	March 18, 1991
Stanford Ollendorf	Robotic Deployment, Assembly and Servicing of Scientific Payloads on the Lunar Surface -- Phase I - Final Report	March 1, 1991
Randel Lindemann	Surface Transportation Vehicles : Vehicle Concepts and Analysis Study	March 1991
	Space Exploration Initiative Fact Sheets	March 14, 1991
Thomas Sullivan, David McKay, NASA JSC	Using Space Resources	1991
<b>SubHeading:</b>	<b>Box Number: 016</b>	
General Dynamics	Infrastructure Study Phase 2 January Review	January 16, 1991

Boeing	Space Transfer Vehicle Concepts & Requirements Study. Interim Review Briefing #5 ( Boeing )	January 15, 1991
	Space Transfer Concepts and Analysis for Exploration Mission -- Phase One Final Review	January 16, 1991
Martin Marietta	Space Transfer Vehicle Concepts & Requirements Study -- Interim Review 5 ( Martin Marietta )	January 14-18, 1991
<b>SubHeading:</b>	<b>Box Number: 017</b>	
Eagle Engineering, Inc.	Lunar Hydrogen Extraction Study -- Final Report	March 29, 1991
Planet Surface Systems	PSS ( Planet Surface Systems ) Final Review Presentations for March 1991 ( Continued in Box 018 )	March 1991
	Lunar Observer: A Comprehensive Orbital Survey of the Moon. Mission and System Definition Summary. Rex Ridenoure, Editor / Jet Propulsion Laboratory. JPL D-8607	April 15, 1991
	Technology Planning for Space Instruments for Solar System Exploration / James Cutts, Office of Space Science & Instruments. Solar System Exploration Subcommittee Meeting	May 20-21, 1991
<b>SubHeading:</b>	<b>Box Number: 018</b>	
	Advance Space Design Journal	1991
Dean Eppler	Lighting Constraints on Lunar Surface Operations	May 1991
	Educational Activities Related to the Space Exploration Initiative	May 1991
Arnold Aldrich	Remarks on the Space Exploration Initiative	April 23, 1991
	Internal Atmospheric Pressure and Composition for Planet Surface Habitats and EMU ( Extravehicular Mobility Units )	May 23, 1991
	Contributions to the Development of the PSSO ( Planet Surface Systems Office ) Operations Study Plan -- Task 1	May 31, 1991
	Operations Analysis for the Planet Surface Systems Office -- Task 3	May 31, 1991
	Contributions to Facilitate Activity-Based Cost Estimations of SEI Operations -- Task 4	May 31, 1991
Planet Surface Systems	PSS ( Planet Surface Systems ) Final Review Presentations for March 1991 ( Continued from Box 017 )	March 1991
<b>SubHeading:</b>	<b>Box Number: 018 *</b>	
	Lunar Mining Vehicle / Equipment Study * All 17 pages of this document have been scanned	May 1991
<b>SubHeading:</b>	<b>Box Number: 019</b>	
	Evaluation of Computer-Based Operations Analysis Tools for the Planet Surface Systems Office -- Task 2	June 5, 1991
	Operations Process and Characteristics that Affect Design Requirements -- Task 5	June 5, 1991
	Planet Surface Systems Operations Study -- Draft	May 31, 1991
Planet Surface Systems Office	Element / Systems Data Base ( ESDB ) -- Release 91.1.	May 1991
	Safety, Reliability, Maintainability, and	June 1991

	Quality Assurance ( SRM&QA ) Planning and Requirements Process Document ( Option 5A 90-Day Study )	
	Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic -- Volume 1	April 10-13, 1990
	Research and Development Strategy for Mining and Processing in Space. Developed for the Synthesis Group by Staff, Bureau of Mines	October 11, 1990
	The Moon as a Source for Energy for Terrestrial Use	August 1991
	Lunar / Mars Construction & Mining Workshop Review -- Extraterrestrial Mining & Construction	August 22, 1990
<b>SubHeading:</b>	<b>Box Number: 019 *</b>	
1st Cosmic Study of the IAA ( International Academy of Astronautics, Paris, France )	The Case for an International Lunar Base * All 36 pages of this document have been scanned	1990
<b>SubHeading:</b>	<b>Box Number: 020</b>	
Dr. Kenneth Cox, Don C. Brown, 14th Annual AAS Guidance and Control Conference	Strategic Avionics Technology Planning	February 2-6, 1991
	Lunar Production of Solar Cells	August 1991
	Proceedings of the 10th Annual International Space Development Conference --Space: A Call for Action	May 22-27, 1991
	Catalog of Apollo Lunar Surface Geological Sampling Tools and Containers	March 1989
	Systems Engineering Review of Airlocks for Planet Surface Systems Office	June 1991
JPL	FY 91 Final SEI ( Space Exploration Initiative ) Science Payloads : Descriptions and Delivery Requirements	May 17, 1991
	A Vision for Planetary Exploration -- PSSO ( Planet Surface Systems Office )	
	Space Exploration Initiative Space Transportation System -- Interim Report	August 1990 - March 1991
NASA and National Science Foundation	Use of Antarctic Airbags to Support the Space Exploration Initiative	December 1990
NASA & DOE ( Department of Energy )	Proceedings of the Radioisotope Power System Requirements Workshop	April 16-17, 1990
JPL	The Impact of Mars Surface Characteristics on Rover Design	
Marvin Minsky, MIT	Proposal for a Remotely Manned Space Station -- Draft	April 1, 1990
Presentation in Obninsk, USSR	Nuclear Radiation Issues for Human Exploration of Space	May 1990
	Airlocks -- A Study of Previous Use, Technology, and Planet Surface Systems Requirements	May 1991
<b>SubHeading:</b>	<b>Box Number: 021</b>	
	MSFC ( Marshall Space Flight Center ) Space Transportation Week Presentations -- Space Station Freedom Evolution Requirements Review	April 4-5, 1991
	MSFC ( Marshall Space Flight Center ) Space Transportation Week Presentations -- Low Thrust Team Activities	April 4-5, 1991

MSFC ( Marshall Space Flight Center ) Space Transportation Week Presentations -- Phase II, Minimum Accommodation Study of Aerobrake Assembly : Vehicle Concept Selection	April 4-5, 1991
MSFC ( Marshall Space Flight Center ) Space Transportation Week Presentations -- HLLV ( Heavy Lift Launch Vehicle ) Evolution	April 4-5, 1991
A Study of Flight Data Systems and Simulation Needs of the Lunar / Mars Exploration Initiative	March 1991
MSFC ( Marshall Space Flight Center ) Space Transportation Week Presentations -- Agenda	April 4-5, 1991
MSFC ( Marshall Space Flight Center ) Space Transportation Week Presentations -- Aerobraking Applications and Benefits	April 4-5, 1991
MSFC ( Marshall Space Flight Center ) Space Transportation Week Presentations -- NLS ( National Launch System ) Status	April 4-5, 1991
MSFC ( Marshall Space Flight Center ) Space Transportation Week Presentations -- Space Station Freedom Evolution Analysis Overview	April 4-5, 1991
MSFC ( Marshall Space Flight Center ) Space Transportation Week Presentations -- SEI ( Space Exploration Initiative ) Overview	April 4-5, 1991
MSFC ( Marshall Space Flight Center ) Space Transportation Week Presentations -- Evolution Requirements Descoping for the Restructured Space Station Freedom Program	April 4-5, 1991
MSFC ( Marshall Space Flight Center ) Space Transportation Week Presentations -- SEI Engineering Requirements on Robotic Missions : Report of the Mars Atmospheric Knowledge Requirements Working Group	April 4-5, 1991
MSFC ( Marshall Space Flight Center ) Space Transportation Week Presentations -- Space Exploration Systems Studies at the Langley Research Center	April 4-5, 1991
MSFC ( Marshall Space Flight Center ) Space Transportation Week Presentations -- Directional Dose Distribution	April 4-5, 1991
MSFC ( Marshall Space Flight Center ) Space Transportation Week Presentations -- Space Station Restructuring : Man-Tended Capability / Permanently Manned Capability	April 4-5, 1991
MSFC ( Marshall Space Flight Center ) Space Transportation Week Presentations -- Explosion Potential Comparison for Future HLLV ( Heavy Lift Launch Vehicle ) Concepts Final Presentation / Report	April 4-5, 1991
MSFC ( Marshall Space Flight Center ) Space Transportation Week Presentations -- NTR ( Nuclear Thermal Rocket ) Stage Commonality for Lunar / Mars Missions	April 4-5, 1991

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**Box Number: 021 \***

MSFC ( Marshall Space Flight Center ) Space Transportation Week	April 4-5, 1991
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Presentations -- Lunar Activities : LEV  
Design / LTS Options / Phased Lunar /  
Level II / Synthesis Support \* All 18  
pages of this document have been  
scanned

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**Box Number: 022**

MSFC ( Marshall Space Flight Center )  
Space Transportation Week  
Presentations -- Infrastructure Study  
for Marshall Space Flight Center

April 4-5, 1991

MSFC ( Marshall Space Flight Center )  
Space Transportation Week  
Presentations -- Space Transfer  
Concepts and Analysis for Exploration  
Missions

April 4-5, 1991

MSFC ( Marshall Space Flight Center )  
Space Transportation Week  
Presentations -- Space Transfer  
Vehicle: Lunar Transportation Ground  
Based LEO Rendezvous and Docking  
Study

April 4-5, 1991

Selection of a Candidate Power  
Transmission System for the Lunar  
Outpost

Applications and Space Mission  
Enhancements Made Possible With a  
Nuclear-Driven Beam-Power System

July 1989

Pressurized Lunar Rover Thermal  
Analysis / Final Presentation

June 7, 1991

Lunar Mars Exploration Program  
Planet Surface Segment -- Systems  
Engineering Integration Process

May 1991

Planet Surface Systems Office

A Vision for Planetary Exploration

Lunar / Mars Exploration Program  
Planet Surface Segment -- Program  
Management Plan

June 1991

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**Box Number: 023**

Synthesis Group Report -- America at  
the Threshold Final Bound Issue

May 3, 1991

NASA Technical Report TR R-401

Mobility Performance of the Lunar  
Roving Vehicle : Terrestrial Studies :  
Apollo 15 Results

December 1972

LPI Technical Report 91-01

Workshop on Production and Uses of  
Simulated Lunar Materials

September 25-27, 1989

Lunar / Mars Exploration Program  
Planet Surface Segment Program  
Management Plan

August 1, 1991

Journal of Spacecraft and Rockets

Martian Regolith as Space Radiation  
Shielding

January 1991

Model Studies of Catering  
Phenomenon for Application to  
Blasting on the Lunar Surface Final  
Report

July 15, 1991

NASA ( SERC ) Space Engineering  
Research Center for Utilization of  
Local Planetary Resources Annual  
Report 1991

April 1991

Aerobrake Assembly with Minimum  
Accommodation Phase II Interim Review

August 28, 1991

**SubHeading:**

**Box Number: 024**

NASA & Department of Energy

Proceedings of the Second  
Radioisotope Power System  
Requirements Workshop

June 26-27, 1991

Special Assessment Agent for  
Automation & Robotics / Human  
Performance

Advanced Engineering Software For  
In-Space Assembly and the Manned  
Mars Spacecraft

June 30, 1989

US Army Corps of Engineers Technical  
Report # M-91/25

Construction Equipment for Lunar  
Surface Operations

September 1991

	The First International Design for Extreme Environments Assembly Executive Summary of Presented Papers	November 12-15, 1991
42nd Congress of the International Astronautical Federation	IAF ( International Astronautica Federation ) Advantages of the Use of Lunar and Mars Propellant Production	October 5-11, 1991
42nd Congress of the International Astronautical Federation	IAF ( International Astronautical Federation ) Options for a Lunar Base Surface Architecture	October 5-11, 1991
42nd Congress of the International Astronautical Federation	IAF ( International Astronautical Federation ) A Taxonomy for the Evolution of Human Settlements on the Moon and Mars	October 5-11, 1991
Hernandez Engineering, Inc. Contract NAS9-18650	Management Plan for New Initiatives Office Project Development Support	October 21, 1991
NASA / JSC	Proceedings of the Workshop on the Concept of a Common Lunar Lander	July 1-2, 1991
NASA Technical Memo 104738	Making Intelligent Systems Team Players : Case Studies and Design Issues Volume 1 / Human-Computer Interaction Design	September 1991
AIAA 91-3475	Requirements for Maintaining Cryogenic Propellants During Planetary Surface Stays	September 4-6, 1991
<b>SubHeading:</b>	<b>Box Number: 025</b>	
SAE Technical Paper Series	A Model of Human Metabolic Massflow Rates for an Engineered Closed Ecosystem	July 24-26, 1989
NASA Tech. Memo 103860	Computational Needs Survey of NASA Automation and Robotics Missions Volume 1 / Survey and Results	May 1991
NASA Technical Memo 103860	Computational Needs Survey of NASA Automation and Robotics Missions Volume II / Appendices	May 1991
	Space for Peace and Progress / 41st International Astronautical Congress	October 1990
	Making Intelligent System Team Players / Case Studies & Design Issues Volume 2 / Fault Management System Cases	October 1991
NASA Ames Research	Space Sub Graphics	
Presentation by NASA / Ames Research	Intro to the I.M.V. ( Intelligent Maneuvering Vehicle ) or "Space Sub"	October 7, 1989
Ronald Greeley, Editor	Mars Landing Site Catalog	February 1990
NASA NASW-4460	Oregon Moonbase Final Report / Site Characterization and Phase One Development Plan for the Oregon Moonbase	August 14, 1990
	Twenty-Eighth Space Congress Proceedings / Space Achievement / A Global Destiny	April 23-26, 1991
<b>SubHeading:</b>	<b>Box Number: 026</b>	
ExPO Internal Doc No. XE-93-004	Analysis of Synthesis Group Architectures / Summary & Recommendations	May 1992
NASA MSFC System Engineering Symposium	Control Gates Task / The System Engineering Process Improvement Team / Control Gates	March 20, 1991
Hamilton Standard Division, United Technologies Corporation	SPE Water Electrolyzers Presentation	February 21, 1992
JSC-08414	Skylab Mission Report - First Visit	August 15, 1973
JSC-08662	Skylab Mission Report - Second Visit	January 1974
JSC-08963	Skylab Mission Report - Third Visit	July 1974
ExPo Doc. XE-92-003	Analysis of the Synthesis Group's "Science Emphasis for the Moon and	March 1992



	Mars" Architecture	
ExPo Doc. XE92-002	Analysis of the Synthesis Group's "Space Resource Utilization" Architecture	February 1992
RAND	Space and Surface Power for the Space Exploration Initiative / Results from Project Outreach	1992
<b>SubHeading:</b>	<b>Box Number: 027</b>	
Lockheed Life Support Development Lab.	Assessment of the State of the Art in Life Support Environmental Control for SEI	
	Proceedings From the 4th NASA System Engineering Symposium at MSFC ( Marshall Space Flight Center ) / System Requirements / The Early Definition and Management Thereof	March 18-19, 1992
RAND	Automation and Robotics for the Space Exploration Initiative / Results from Project Outreach	1991
Office of Aeronautics and Space Technology	1992 Life Support Systems Analysis Workshop	May 12-14, 1992
McDonnell Douglas	Lunar Transportation Facilities and Operations Study-Option 2 - Annual Report	February 1992
Exploration Programs Office	New Ways of Doing Business ( NWODB ) Workshop Handbook	May 12-15, 1992
Third Annual Symposium of the University of Arizona / NASA Space Engineering Research Center for Utilization of Local Planetary Resources and the First Annual Symposium of the Indigenous Space Materials Utilization Advisory Panel	Lunar Materials Technology - Abstracts	February 20-22, 1992
<b>SubHeading:</b>	<b>Box Number: 027 *</b>	
Barney Roberts	FLO ( First Lunar Outpost ) Visibility Review - Surface Systems * All 25 pages of this document have been scanned	January 30, 1992
	First Lunar Outpost - Detailed Assumptions / Working Drafts * This entire 120 page document has been scanned	April 1, 1992
<b>SubHeading:</b>	<b>Box Number: 028</b>	
An American Nuclear Society Meeting Sponsored by the Idaho Section and ANS Education & Training Division, ANS Special Committee on Space Exploration	Nuclear Technologies for Space Exploration / NTSE-92, Volume I	August 16-19, 1992
Planet Surface Systems Office	First Lunar Outpost ( FLO ) Surface Segment Databook for the Performance Period 12/91-4/92	May 26, 1992
University of Colorado, Boulder	Annual Report / Center for Space Construction	October 1, 1992
Planet Surface Systems Office	Element / Systems Data Base ( ESDB ) , Release 91.1	May 1991
<b>SubHeading:</b>	<b>Box Number: 029</b>	
Lunar Geotechnical Institute / LGI TR91-04	The Investigation of Mechanical Properties of Lunar Soil and its Analogues Under Different Atmospheric Conditions and in a Vacuum Using the Instrument TOR-1	1991
Tynan, Williams / Osborne-Langley Research Center	Expandable Structures Technology for Manned Space Applications	April 21-23, 1971
Niccum, Munson / Sheidahl Company	Investigation of Kevlar Fabric Based Materials for Use With Inflatable Structures	April 1974
Cordier, Cross / Goodyear Aerospace	Final Report / Materials Technology Advancement Program for Expandable	August 1970

	Manned Space Structures	
Air Force Aero Propulsion Lab	Conference Proceedings / Third Aerospace Expandable and Modular Structures Conference	May 16-18, 1967
Plescia / JPL	Viking 2 Landing Site / Site Description and Material Physical Properties / Draft	February 1, 1991
	Viking Lander 2 Rectified Photomosaics / Morning Scene - Camera 2 / Mars Map I-1516 ( Sheets 1-5 )	1984
	Viking Lander 2 Rectified Photomosaics / Evening Scene / Camera 1 - Mars / Map I-1517 ( Sheets 1-5 )	1984
	Geologic Map of the Western Equatorial Region of Mars / Map I-1802-A	1986
	Geologic Map of the Eastern Equatorial Region of Mars / Map I-1802-B	1987
Langley Research Center	Viking 75 Project / Mars Engineering Project	
<b>SubHeading:</b>	<b>Box Number: 029 *</b>	
Griffin, Thrasher, Wallace / The Boeing Company	A Pressurized Rover for Early Lunar Exploration * All 10 pages of this document have been scanned	March 24-27, 1992
<b>SubHeading:</b>	<b>Box Number: 030</b>	
Stimmler-MSFC	System Definition Study of Deployable, Non-Metallic Space Structures	June 1984
Launch & Landing Final Review	Trade Study Status - Impacts of Maintaining Liquid Hydrogen on Planetary Surface Systems	March 28, 1991
Presented at the Second Aerospace Expandable Structures Conference -- Jerry Williams	Development of an Expandable Airlock Utilizing the Elastic Recovery Principle	May 25-27, 1965
Planet Surface Systems Office	Technology Development Needs for March 1990-March 1991 / Study Period	July 1991
Planet Surface Systems Office	Planet Surface Systems Reference Mission Technology Needs-92.1	November 1991
Raymond Hill, Logistics and Human Factors Division, Wright-Patterson Air Force Base, Ohio	Decision Support Environment for Concurrent Engineering Requirements	January 1991
Lunar & Mars Exploration Program Office	Level I / II / III Working Meeting / NASA Headquarters	October 29, 1990
Planet Surface Systems Office	Advanced Development Planning for March 1990-March 1991 / Study Period	June 1991
<b>SubHeading:</b>	<b>Box Number: 031</b>	
United Technologies Corp-Hubert Davis	Requirements Analysis for a Space Energy Enterprise / Revision 1	February 5, 1991
United Technologies-Hubert Davis	Helium 3 Fuel From the Moon for Terrestrial Fusion Power Reactors	February 19, 1991
Paul Keaton, Los Alamos Nat'l Lab	A Moon Base / Mars Base Transportation Depot	September 1985
Earth Space Operations	Economic Implications of Space Resource Utilization Technologies / Final Report	May 1, 1985
Barney Roberts, Planet Surface Systems	Planet Surface Systems Science Accommodations at Mars	October 13, 1989
John F. Connolly	NASA / USACE Partnering in SEI ( Space Exploration Initiative ) Planet Surface Systems Briefing to USACE Engineering Laboratories	June 1990
Roberts, Parish, Connolly, Lancaster	Planet Surface Systems 90-Day Study Organization Presentation to SR Staff	November 1989

	Physical Properties of Concrete Made With Apollo 16 Lunar Soil Sample	
T.D. Lin, Portland Cement Association	Concrete for Lunar Base Construction	
Kenneth Cordier, Goodyear Aerospace	Fabrication and Test of Three-Dimensional Structural Sample / Materials Technology Advancement Program for Expandable Manned Space Structures	February 1971
Office of the Chief of Engineers, Department of the Army	Special Study of the Research and Development Effort Required to Provide a U.S. Lunar Construction Capability / Final Report, Volume I and Volume II	April 30, 1963
Duke, Morrison	Workshop Report /Mars Exploration Strategies Precursors / Prerequisites to Human Exploration of Mars	March 7-9, 1988
Mission Operations Directorate	Space Station Freedom Baseline Operations Plan / Preliminary	April 1990
<b>SubHeading:</b>	<b>Box Number: 032</b>	
	Exploration Technology Program High-Rate Communications Program Plan / NASA Lewis Research Center,Space Electronics Division	August 14, 1990
NASA Space Engineering Research Center	Proceedings of the Lunar Materials Technology Symposium	February 20-22, 1992
The Human Exploration of the Moon and Mars / Advances Programs Office Systems Definition Branch	Habitation and Human Systems for the 90 Day Study	March 1990
	Launch Site Operations Data Book / Prepared by Lockheed Advanced Programs Study Team for NASA Kennedy Space Center	November 1990
Gary Kitmacher / NASA	Outfitting for Lunar and Planetary Habitats	October 20, 1989
US Army Corps of Engineers	Construction Equipment for Lunar Surface Operation	September 1991
NASA	Explorations Missions Operations Concept / Draft	May 31, 1991
	A Site Selection Strategy for a Lunar Outpost / Science and Operational Parameters / Conclusions of a Workshop / Solar System Exploration Division, JSC	August 13-14, 1990
<b>SubHeading:</b>	<b>Box Number: 033</b>	
US Army Corps of Engineers	Operations Analysis for Lunar Surface Construction / Results for Two Office of Exploration Case Studies / Draft	January 1991
US Department of the Interior Bureau of Mines	Assessment of Extraterrestrial Core Drilling	December 1990
U.S. Department of the Interior Bureau of Mines	Mining Technology for Lunar Resource Utilization	July 1990
Design Edge, Houston, Tx	Initial Lunar Habitat Construction Shack / Design Control Specification	June 19, 1990
	Lunar Bases & Space Activities in the 21st Century / Inflatable Habitation for the Lunar Base	April 5-7, 1988
Advanced Programs Office NASA / JSC	A Comparative Catalogue of Lunar Construction Techniques	February 1989
Reference Mission Option 5a--Rockwell International	Planetary Surface System Maintenance Assessment Study / Final Report	September 1991
Universities Space Research Association	Design of an Inflatable Habitat for NASA's Proposed Lunar Base	August 3, 1990
NASA/ASEE Summer Faculty Fellowship Program/JSC	Structural Concept Studies for a Horizontal Cylindrical Lunar Habitat and a Lunar Guyed Tower / Final Report	1990

	Lunar Model: Lunar Engineering Data Meteorite Flux on the Moon / Preliminary	
Martin Marietta Presentation	Innovative Missions and Space Architecture Concepts for the Space Exploration Initiative. Martin Marietta	April 27, 1990
<b>SubHeading:</b>	<b>Box Number: 034</b>	
	Second Annual Symposium of Center for Space Construction, University of Colorado at Boulder	October 17-19, 1990
	University of Colorado Center for Space Construction ( CSC ) / CSC Systems Cluster Report #16 / First Joint Workshop Meeting CSC / Stearns-Roger / Johnson Engineering	June 27, 1990
	University of Colorado Center for Space Construction ( CSC ) / CSC System Report No. 19 / Research on Computer Aided System Engineering for Space Construction / Implementation Plan	September 15, 1990
Lunar/Mars Exploration Program Office	Human Exploration Architecture ( Draft )	July 12, 1990
Data from the Lunar Source Book	Lunar Model / Lunar Engineering Data- Geotechnical Data ( Engineering Soil Mechanics ) / Preliminary	December 1990
D.A. Morrison	Lunar Model / Lunar Engineering Data / Thermal Properties of the Lunar Regolith / Preliminary	
Lunar/Mars Exploration Program Office White Paper	Exploration Emphasis Architecture ( Draft )	July 12, 1990
Lunar/Mars Exploration Program Office White Paper	Evolution Emphasis Architecture (Draft)	July 12, 1990
McDonnell Douglas	Space Evolution Initiative Overview / A Prime Contractor's Perspective	April 27, 1990
<b>SubHeading:</b>	<b>Box Number: 035</b>	
LMEP, New Initiatives Directorate, JSC	Capabilities for the Exploration Initiative Presentation	April 26, 1990
	Lunar / Mars Initiative Program Options - A General Dynamics Assessment	April 1990
TRW Federal System Division	Lunar / Mars Exploration, Presented by TRW Space & Technology Group	April 27, 1990
	To the Moon and Beyond: Lunar / Mars Exploration. SEI Architecture & Systems Studies at Rockwell International	April 27, 1990
	Lunar Outpost Site Selection Workshop	
	Lunar Outpost Site Selection Workshop -- Review Board Assessment Matrices	
Fairchild Space	Lunar Transit Telescope ( LTT ) Robotic Assembly Study	August 1990
	U.S. Nuclear Submarine Human Factors and Command, Control and Communication Relative to The Space Exploration Initiative	
Grumman	Space Exploration Initiative "...A Long Range, Continuing Commitment."	April 26, 1990
	Space Exploration Initiative -- Top Level Architecture Approaches	April 26, 1990
Prepared for NASA Goddard Space Flight Center	Reduced-Scope Communications System Architecture for the Lunar Missions	January 1990
The Lunar and Planetary Sample Team and Lunar Base Geoscience Workshop Participants	Geoscience and a Lunar Base: A Comprehensive Plan for Lunar Exploration	December 1989

	Planet Surface Systems Office 12 Month Study Project Management Plan	April 13, 1990
	Lunar / Mars Exploration Program Office White Paper: Expanding Human Presence Architecture ( Draft )	July 12, 1990
<b>SubHeading:</b>	<b>Box Number: 036</b>	
	Lunar Evolution Case Study Traffic Model	January 1990
D.A. Petri	90-Day Study Record Results Summary -- Requirements and Programmatics / Planet Surface Systems	November 15, 1989
Planet Surface Systems	Initial Study Period Results Summary / Conceptual Design and Development Requirements / Reference Mission / Option 5	October 17, 1989
	Using Analog Settings to Study Human Responses During Long-Duration Spaceflight. A Critical Examination of Analog Research as a Means of Resolving System Design Issues	November 8, 1991
C. Gould, L. Lewis	Cabin Pressures, Suit Mobility, Suit Pressures, Cabin Mass	
JPL D-9476	SEI Engineering Requirements on Robotic Missions: FY92 Final Report of the Engineering Requirements Subgroup ( ERSG ) / JPL	February 1992
Mike Griffin, Deputy for Technology / Strategic Defense Initiative Organization	Project Management for Space Flight Programs	July 16, 1991
Michael Griffin, Deputy for Technology, Strategic Defense Initiative Organization	Project Management for the Space Exploration Initiative	September 10, 1990
H.J. Moore	Estimates of Some Physical / Mechanical Properties of Martian Rocks and Soillike Materials	1991
Crew and Thermal Systems Division / NASA JSC	The Thermal Environment on the Surface of Mars	August 25, 1992
	Space Exploration Initiative 92-1 / Johnson Space Center Submit / Review With The Acting Center Director	March 24, 1992
	Space Exploration Initiative 92-1 / Johnson Space Center Submit / Review With the Center Comptroller	March 23, 1992
	Planet Surface Sytems Office of Exploration POP 92-1 / Review with the Manager, New Initiatives Office	March 17, 1992
	Planet Surface Systems Office of Exploration POP 92-1 / Review With the Directorate Coordinating Committee	March 13, 1992
Lunar / Mars Exploration Program Planet Surface Systems	Engineering Management Plan	May 1991
<b>SubHeading:</b>	<b>Box Number: 037</b>	
	First Lunar Outpost / Status Review presented to Johnson Space Center	March 20, 1992
Planet Surface Systems	Views on Integration of System Engineering and Supporting Development Processes	October 10, 1991
Barney B. Roberts	Systems Engineering Standards, Who Needs Them? NASA!!	
	Lunar Base Construction Requirements Review / Center for Space Construction, Univerisity of Colorado	May 8, 1990
	Third Annual Symposuim / Center for Space Construction, University of	November 21-22, 1991

	Colorado at Boulder	
	Progress Report Extraterrestrial Cluster / Experimental Results and Model Calibration for a Lunar Soil Simulant	December 1990
	Annual Symposium / Volume I / Plenary Session / University of Colorado at Boulder / Center for Space Construction	October 1989
	Trip Report / International Symposium on Missions, Technologies, and Design of Planetary Mobile Vehicles / Steve Hoffman	October 23, 1992
<b>SubHeading:</b>	<b>Box Number: 038</b>	
Ninth Symposium on Space Nuclear Power Systems	AIP ( American Institute of Physics ) Conference Proceedings 246, Part Two	January 12-16, 1992
Ninth Symposium on Space Nuclear Power Systems	AIP ( American Institute of Physics ) Conference Proceedings 246, Part Three	January 12-16, 1992
Jet Propulsion Laboratory	Magellan / Revealing the Face of Venus	1993
Jet Propulsion Laboratory	V-GRAM / Magellan Bulletin About Venus and the Radar Mapping Mission	April 1993
	The Role of the National Science Foundation in Polar Regions / A Report to the National Science Board	1987
National Science Foundation	Personnel Manual / United States Antarctic Program 1990 Edition	1990
The NASA History Series	First Among Equals / The Selection of NASA Space Science Experiments	1991
	Mars in this Decade / The Great Exploration / U.S. Space Foundation Sixth National Space Symposium	April 9-11, 1990
	AIP ( American Institute of Physics ) Conference Proceedings 246 / Part One / Ninth Symposium on Space Nuclear Power Systems	January 12-16, 1992
<b>SubHeading:</b>	<b>Box Number: 038*</b>	
Mark Craig	A Presentation on the Space Exploration Initiative to the Committee on Science, Space, and Technology Staff / U.S. House of Representatives / *All 28 pages of this document have been scanned	February 12, 1991
<b>SubHeading:</b>	<b>Box Number: 039</b>	
John Graf	Lunar Soils Grain Size Catalog / NASA Reference Publication 1265	March 1993
A Briefing to JSC Planet Surface Systems Office-SAIC	Management and Operations Analogs to the Space Exploration Initiative ( SEI ) / U.S. Antarctic Program / A Case Study	December 10, 1991
Judith Allton--Lockheed Engineering and Sciences Company	Catalog of Apollo Lunar Surface Geological Sampling Tools and Containers	March 1989
	Bureau of Mines Research on Utilization of Extraterrestrial Resources / List of Publications	August 22, 1990
Egons R. Podnieks	Environmental Considerations for Lunar Base Engineering	1988
Egons R. Podnieks and Robert Schmidt	Lunar Mining / Surface or Underground	1990
	AlAA 90-3751 Lunar Mining Outlook / E. Podnieks U.S. Bureau of Mines, AlAA Space Programs and Technologies Conference	September 25-28, 1990
Egons R. Podnieks and Wallace W. Roepke	Mining Technology Requirements for Lunar Resource Development	1986

David Lindroth and Egons R. Podnieks	Electromagnetic Energy Applications in Lunar Resource Mining and Construction	
David E. Fogelson, Bureau of Mines	Simulated Lunar Rocks	February 19-21, 1968
Thomas Atchinson and Clifford Schultz	Bureau of Mines Research on Lunar Resource Utilization	February 19-21, 1968
	Workshop on Production and Uses of Simulated Lunar Materials / LPI Technical Report No. 91-01	September 25-27, 1989
Univ. of Texas at Austin	An Assessment of Lunar Surface Operations and Its Application to Communications Modeling / Thesis by: Lisa Yvonne Bell, B.S.E.	August 1992
<b>SubHeading:</b>	<b>Box Number: 039 *</b>	
European Space Agency (ESA)	Mission to Mars / Report of the Mars Exploration Study Team * This 143 page document has been scanned	January 1990
<b>SubHeading:</b>	<b>Box Number: 040</b>	
	Advanced Materials / Application of Mineral and Metallurgical Processing Principles	1990
EEL Report 91-309	Indigenous Space Materials Utilization ( ISMU ) Operations Document	September 23, 1991
	Report of the LSPI ( Large Scale Programs Institute ) / NASA Workshop on Lunar Base Methodology Development	August 26-30, 1985
The Large Scale Programs Institute and Center for Space Research UT at Austin	A Demonstrative Model of a Lunar Base Simulation on a Personal Computer	March 15, 1985
NASA-Johnson Space Center	Lunar Surface Return	March 1984
Los Alamos National Lab.	Low-Thrust Rocket Trajectories	January 1986
	Comparison of Mission Design Options for Manned Mars Missions / Papers Produced by Eagle Engineering for Mars Workshop	June 10, 1985
Maran Nayagam Tamilan	Exploration of Mars / A System Engineering and Cost Analysis With International Implications	May 1992
	Return to the Moon / Europe Scientific Priorities for the Exploration and Utilisation of the Moon / European Space Agency	September 1991
Lockheed Engineering	Final Report / Dust Control and Protection for Planetary Exploration	July 1992
<b>SubHeading:</b>	<b>Box Number: 041</b>	
	Interface Design Considerations for Robotic Satellite Servicers. New Initiative Office, Satellite Servicing Systems Project Office. JSC 23920	November 1989
	Interface Design Considerations for Serviceable Satellites. New Initiative Office, Satellite Servicing Systems Project Office. JSC 23925	November 1989
	SSSWG Meeting #22 -- Presentation Materials. Satellite Services System, NASA DOD Industry	November 28, 1989
	The Hubble Space Telescope Optical Systems Failure Report	November 1990
	Major Systems Acquisitions. A Discussion of the Application of OMB ( Office of Management and Budget ) Circular No. A-109. Executive Office of the President, Office of Management and Budget, Office of Federal Procurement Policy	August 1976
	Metallized Propellants for the Human	November 1990

	Exploration of Mars. NASA Technical Paper 3062. Lewis Research Center	
	A Look at NEPA ( The National Environmental Policy Act ). Jennifer Joy Wilson	January-February 1988
	Space Radiation Dose Estimates on the Surface of Mars. NASA Langley Research Center	July-August 1990
Michael Duke, Lunar and Mars Exploration Program Office	Science, Knowledge, and the Space Exploration Initiative	March 15, 1991
NASA Conference Publication 2489	Future Astronomical Observatories on the Moon	January 10, 1986
PSSO, JSC	Using Space Resources	1991
University of Texas at Austin	Lunar Base Construction / Dissertation by Walter W. Boles	December 1990
Lunar Geotechnical Institute	The Results of Investigations of the Physical and Mechanical Properties of a Sample of Lunar Soil in a Nitrogen Medium	1992
<b>SubHeading:</b>	<b>Box Number: 042</b>	
	Presentation Material Prepared by Eagle Engineering for the Manned Mars Mission Study Group	1985
	Maximizing the Effectiveness of the First Humans on Mars / An Informal Workshop held at Caltech, Pasadena, CA.	July 9, 1990
	The Second Lunar Conference on Lunar Bases and Space Activities of the 21st Century / Volume 1	April 5-7, 1988
	The Second Lunar Conference on Lunar Bases and Space Activities of the 21st Century / Volume 2	April 5-7, 1988
	Element / Systems Data Base ( ESDB ), Release 91.1 / Planet Surface Systems Office	May 1991
<b>SubHeading:</b>	<b>Box Number: 043</b>	
	Proceedings of the 8th Annual Summer Conference NASA / USRA University Advanced Design Program	June 15-19, 1992
	Lunar Surface Base Propulsion System Study, Volume I / Final Report	February 1987
	Lunar Surface Base Propulsion System Study, Volume 2 / Lunar Propellant Manual	February 1997
	Humans to Mars, A Space Leadership Initiative / Presented by John Niehoff, NASA Headquarters	March 18, 1987
	An Aggressive Future Space Program / Draft / Eagle Engineering Report No. 86-118	January 24, 1986
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Bruce M. Cordell	The Moons of Mars: A Source of Water for Lunar Bases and LEO	1985
	Soviet Planetary Program	July 23, 1985
Earth Space Operations	Economic Implications of Space Resource Utilization Technologies / Final Report	May 1, 1985
	AMWG / Advanced Missions Working Group	1985
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	AMWG / Advanced Missions Working Group / Post-Space Station Second Meeting	December 2, 1983



	AMWG / Advanced Missions Working Group / Post-Space Station Third Meeting	January 26-27, 1984
	AMWG / Advanced Missions Working Group / Post-Space Station Fourth Meeting	March 2, 1984
Astronautics Corporation of America, Aerojet Tech Systems Company	Lunar Surface Base Propulsion System Study / Kickoff Meeting	January 30, 1986
Astronautics Corporation of America	Lunar Surface Base Propulsion System Study / First Quarterly Review	April 3, 1986
Astronautics Corp of America	Lunar Surface Base Propulsion System Study / Third Quarterly Review	September 9, 1986
	Analysis of Lunar Propellant Production / Eagle Engineering / 85-103B Final	December 9, 1985
	Symposium / Lunar Bases & Space Activities in the 21st Century / Implications of the NASA Lunar Initiative for a Typical Space Transportation Architecture	April 5-7, 1988
General Dynamics, Space Systems Division	Human Operations / Resources and Bases on Mars	April 23-26, 1990
<b>SubHeading:</b>	<b>Box Number: 045</b>	
	Conceptual Sketches for an Aggressive Space Program / Eagle Engineering, Internal Copy	November 1, 1985
Martin Marietta Denver Aerospace	Tethered Propellant Depot Study	April 24, 1986
JPL-- Frisbee, Horvath, Sercel	Space-Based Laser Propulsion for Orbital Transfer	December 1984
JPL--Garrison, Frisbee, Pompa	Ultra High Performance Propulsion for Planetary Spacecraft FY '81 / Final Report	January 1982
Wright, Sauer, Yen	Solar Sail-Concepts and Applications	September 1980
D.B. Kanipe	Plume / Flowfield Jet Interaction Effects on the Space Shuttle Orbiter During Entry	July-August 1983
AIAA 22nd Aerospace Sciences Meeting	Analysis of Large Solid Propellant Rocket Engine Exhaust Plumes Using the Direct Simulation Monte Carlo Method	January 9-12, 1984
Barney Roberts	Lunar Bases in the 21st Century / "A Bold New Initiative for the U.S. Space Program"	March 5, 1987
	Originals of "Advocacy" Presentation to Fletcher / Barney Roberts Presenter	August 5, 1987
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Advanced Missions Working Group ( AMWG )	Advanced Missions Long-Range Planning * This 175 page document has been scanned	July 11, 1986
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	"Lunar Initiative" Presentation / Barney Roberts	nd
Barney Roberts	Mission Analysis and Phased Development of a Lunar Base	1986
Roberts, Loftus, Duke	Technology for Manned Mars Flight	
Duke, Mendell, Roberts	Strategies for a Permanent Lunar Base	
B. Roberts, L. Pieniazek	AIAA 28th Aerospace Meeting / Surface Systems Supporting a Lunar Base	January 8-11, 1990
Robinson, Galigher, High	Exhaust Plume Temperature and Reynolds Number Effect on Nozzle Afterbody Performance over the Transonic Mach Number Range	October 21-23, 1974
Stone, Baumbach, Roberts	RCS Jet Effects Observed During Shuttle Entry	nd

D.B. Kanipe	Plume Flowfield Jet Interaction Effects on the Space Shuttle Orbiter During Entry / AIAA 9th Atmospheric Flight Mechanics Conference	August 9-11, 1982
S.D. Smith	Improved Rocket Engine Nozzle / Plume Code	
Roberts, Rausch	Reaction Control System Plume Flow Field Interaction Effects on the Space Shuttle Orbiter / AIAA / SAE 10th Propulsion Conference	October 21-23, 1974
Rochelle, Roberts, D'Attorre, Bilyk	Shuttle Orbiter Re-Entry Flowfields at High Angle of Attack	1973
	Russian-Language Paper -- Lunar Bases?	1986
Smith, Penny, Greenwood, Roberts	Exhaust Plume Impingement of Chemically Reacting Gas-Particle Flows / AIAA 10th Thermophysics Conference	May 27-29, 1975
Roberts, Wallace, Kanipe	Rocket Exhaust Plume Induced Flowfield Interaction Experiences with the Space Shuttle / AIAA 18th Thermophysics Conference	June 1-3, 1983
Dr. Carl Sagan	"Human Missions to Mars" / Edited Proceedings on Scientists' Hearing on Space Policy / Federation of American Scientists	October 3, 1990
	U.S. Capabilities in Space Versus Soviets ( Notes from Barney Roberts )	February 27, 1989
Arthur Dula	Journal of Air Law and Commerce / Space Law Issue / Export Controls Affecting Space Operations	1986
Barney Roberts	Evolution of the Space Exploration Initiative / Twenty-Eighth Space Congress	April 23-26, 1991
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Barney Roberts	Lunar Advocacy Pitch * This entire 71 page document has been scanned	March 5, 1987
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Barney Roberts	Martian Settlement	
IAF '86 / 37th Congress of the International Astronautical Federation / SPACE: New Opportunities for All People	Elements of a Mars Transportation System	October 4-11, 1986
U.S. Bureau of Mines Staff	Targeting Automation in Mining and Processing	November 1989
Murphy, Schnakenberg, and Kwitowski	Computer-Assisted Mining	September 1990
Jeffrey Volosin	The Romantic Age of Interplanetary Travel Research: Birth of the Space Exploration Initiative	December 6, 1990
Barney Roberts	A 21st Century Lunar Base	
42nd Congress of the International Astronautical Federation	Lunar Propellant Manufacture and Its Economic Benefits for Space Transportation	October 5-11, 1991
43rd Congress of the International Astronautical Federation	Divide and Conquer / A Management Approach for the Space Exploration Initiative	August 28-Sept. 5, 1992
AIAA Space Programs and Technologies Conference	Soviet Rover Systems	March 24-27, 1992
AIAA Space Programs and Technologies Conference	Mars Outpos / Systems and Operations Challenges	September 25-28, 1990
43rd Congress of the International Astronautical Federation	Crew Systems and Architectural Considerations for First Lunar Surface Return Missions	August 28-Sept. 5, 1992
Mark Craig	NASA's Exploration Initiatives / The Lunar Base	1987
42nd Congress of the International	Advantages of the Use of Lunar and	October 5-11, 1991

Astronautical Federation	Mars Propellant Production	
Aerospatiale Espace & Defense	ATV ( Ariane Transfer Vehicle )	
43rd Congress of the International Astronautical Federation	Manned Missions to Mars / What Scenarii for Europe?	August 28-Sept. 5, 1992
Lunar Bases Astronomy Working Group, Univsity of New Mexico	Astronomy From the Moon	August 28, 1988
	Workshop on Lunar Ceramics Applications and Processing Techniques	March 23, 1988
Lisa McCauley, Battelle	Draft Report on Lunar Surface Systems Workshop	March 24, 1989
Shirley, Buoni, Lennon, Mezey, Weller	A Preliminary Design Concept for a Lunar Sintered Regolith Facility for Lockheed Engineering and Sciences Company	January 6, 1989
Shirley, Buoni, Lennon, Mezey, Weller	A Preliminary Design Concept for a Lunar Sintered Regolith Facility / Draft for Lockheed Engineering and Sciences Company	August 8, 1988
Corinne Buoni	Conceptual Design of Lunar Base Facilities / Proposed Study Plan	January 13, 1988
	Statement by John Aaron to the Subcommittee on Space Science and Applications / Committee on Science / Space and Technology / House of Representatives	March 22, 1988
95th Congress, 2nd Session	National Aeronautics and Space Act of 1958 as Amended, and Related Legislation	December 1978
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	Exploration Theme White Papers / Stimulate Education and Excellence / National Pride / Space Enterprise / Advancement of Science / Technology Catalyst / International Cooperation * All 35 pages of this document have been scanned	August 5, 1988
	Lexicon Presentation / For Exploration Initiative * All 46 pages of this document have been scanned	October 1, 1987
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	The Lunar Environment / Earth & Moon Compared	
	Lunar Environments / Lunar Materials Handbook ( Chapter 7 )	June 1, 1987
NASA Technical Memo 100470	Environments of Mars, 1988	October 1988
G. Jeffrey Taylor	The Environment at the Lunar Surface	
	NASA Scenario Development Presentation	
NASA	Pathfinder / Research and Technology to Enable Future Space Missions ( Preliminary ) Program Overview	1988
Alex Dula, Jr., Larry Friesen	Systems Technologies for NASA's Future Missions in the 1995-2035 Timeframe / A Study Performed for the NASA Advanced Programs Office	October 1, 1987
L.E. Livingston	Implementation Studies / Lunar and Mars Scenario Requirements	January 29, 1988
Presentation by Paul Bialla and Mike Simon	SEI Key Attributes and Synthesis Group Architectures Assessment	October 2, 1991
	NASA Planetary Rover Program / JPL 1990 Annual Technical Report	January 15, 1991
Office of Aeronautics / Exploration and Technology / NASA	Planetary Rover Intercenter Working Group Meeting Proceedings	August 21-22, 1990
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	Pathfinder Planetary Rover / JPL 1989	January 15, 1990

	Annual Technical Report	
Office of Aeronautics and Exploration Technology	Planetary Rover Intercenter Working Group Meeting Proceedings	December 17-18, 1990
Special Assessment Agent for Automation & Robotics / Human Performance	FY'89 Study Report / Human Performance Crew Size Study / Final Report	October 1989
Special Assessment Agent for Automation & Robotics/Human Performance	FY'89 Study Report / FTS Capabilities Assessment for Manned Mars Mission On-Orbit Operations ( Final Report )	June 30, 1989
	Human Exploration Initiative / Special Assessment Agent for Automation & Robotics	November 2, 1989
	Automation and Robotics Application to Planetary Surface Operations for Ames Research Center ( SAA ) Status Report	April 27, 1989
NASA-Ames Research Center / Robert Mah	Automation & Robotics / Human Performance / Annual Report ( Draft Edition )	December 8, 1989
	SEI Project Outreach Evaluations / Space and Surface Power / Working Draft / Rand Corp.	November 1990
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	SEI Project Outreach Evaluations / Communications / Working Draft / Rand Corp.	November 1990
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	SEI Project Outreach Evaluations / Missions and Architectures / Working Draft / Rand Corp.	January 1991
	Initial Study Period Results Summary / Planet Surface Systems, Reference Mission-Option 1 / Conceptual Design and Development Requirements ( W. Ellis Study )	October 5, 1989
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<b>SubHeading:</b>	<b>Box Number: 051</b>	
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	Intelligent Computational Systems Support for Human Planetary Exploration	January 12, 1990
	SSRL Documents Checked Out	1992
SSRL / Correspondence - Memos	Roberts / Lewis -- Lunar Materials - Fiberglass	September 9, 1988
SSRL / Correspondence - Memos	Roberts / Bedard -- Planetary Rovers to Support the Code Z Solar System Exploration Case Studies	April 25, 1989
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	First Lunar Outpost Technical Status	1992

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SSRL / Correspondence - Memos	Roberts / Burns -- Lunar Observatories	March 30, 1989
SSRL / Correspondence - Memos	Roberts / Duke -- Agenda for Battelle Midterm Report	August 3, 1988
SSRL / Correspondence - Memos	Roberts / Aaron -- Actions Resulting from July 25, 1988 OEXP ( Office of Exploration ) Technical Presentation to the Administrator	July 38, 1988
SSRL / Correspondence - Memos	Kliment / Mendell -- Status of Agreement with U.S. Army Corps fo Engineers	August 22, 1988
SSRL / Correspondence - Memos	Grants / Roberts -- Justification for Acceptance for Unsolicited Proposal	August 1988
SSRL / Correspondence - Memos	Roberts / Hall -- ECLS System Study for the NASA / JSC Inflatable Lunar Base Habitat	December 9, 1988
SSRL / Correspondence - Memos	Mission Analysis and System Engineering ( MASE ) / Roberts / Final Code 2 Products for MASE Integration	June 5, 1989
SSRL / Correspondence - Memos	Distribution / Roberts -- Identification of Critical Data Needs for MASE	June 6, 1989
SSRL / Correspondence - Memos	Record / Duke -- Notes on Enterprise Case Study Meeting December 19-20,1988	December 1988
SSRL / Correspondence - Memos	Distribution / Lovelace -- Exploration Requirements Documents ( ERD ) Review	January 10, 1989
SSRL / Correspondence - Memos	Nealy / Rancitelli -- Actions from Mission / Technology Planning Workshop November 19, 1988	November 2, 1988
SSRL / Correspondence - Memos	Roberts / Koelle -- Lunar Base Papers Published in ACTA Astronautica	October 3, 1988
SSRL / Correspondence - Memos	Roberts / Gooding -- Revision 4 of "The Case for Planetary Sample Return Missions / 2. History of Mars"	December 1, 1988
SSRL / Correspondence - Memos	Roberts / Aaron -- Technology Actions Items	August 18, 1988
SSRL / Correspondence - Memos	Roberts / Boain -- FY'88 OEXP ( Office of Exploration ) Precursor Concepts Study	November 17, 1988
SSRL / Correspondence - Memos	Aaron / Mark -- Models for Lunar Base and Mars Exploration	July 29, 1988
SSRL / Correspondence - Memos	Roberts / Darwin -- Space Transportation Infrastructure Steering Group	November 25, 1988
SSRL / Correspondence - Memos	Roberts / Kopp -- Draft News Release for Lunar Base Systems Definition Study	January 20, 1989
SSRL / Correspondence - Memos	Roberts / Harris -- Nuclear Rockets Using Indigenous Martian Propellants	December 15, 1988
SSRL / Correspondence - Memos	Bland / Hastrup -- Preliminary TNIM Design Parameters and Assumptions ( Mars Case Studies )	January 20, 1989
SSRL / Correspondence - Memos	Dunmor / Roberts -- Request to Modify Delivery Order No. 0598	January 27, 1989
SSRL / Correspondence - Memos	Roberts / Aaron -- FY'89 Explanation Budget Marks and Data Request	November 22, 1988
SSRL / Correspondence - Memos	Distribution / Roberts -- ESSIA and TIA Interface	February 28, 1989
SSRL / Correspondence - Memos	Craig / Mendell -- ASCE Task Committee on Lunar Base Structures	January 4, 1989
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SSRL / Correspondence - Memos	Distribution / Craig -- Inputs to the	June 26, 1989

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SSRL / Correspondence - Memos	AHU Director / Roberts --Access to Government Facilities for University Student	June 26, 1989
SSRL / Correspondence - Memos	Distribution / Cole -- Symposium in Anchorage on Construction	February 23, 1989
SSRL / Correspondence - Memos	Roberts / Stoker -- Case for Mars III Proceedings Papers	May 19, 1988
SSRL / Correspondence - Memos	Roberts / Koelle -- Subcommittee for Lunar Base Project	August 25, 1988
SSRL / Correspondence - Memos	Distribution / Craig -- LMEO Staff Meetings	August 18, 1988
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SSRL / Correspondence - Memos	Manager / Wheelock -- 1223 System Accounts for the NIO ( New Initiatives Office )	August 30, 1989
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SSRL / Correspondence - Memos	SSET / Roberts -- Splinter Sessions for Working Group Week	February 14, 1989
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SSRL / Correspondence - Memos	NASA Headquarters / Huffstettler -- Workshop on Radiation Constraints for Exploration Class Missions	February 15, 1988
SSRL / Correspondence - Memos	Craig / VanLandingham -- Performance Figures and Projections for Ion and MPD Propulsions Systems	June 28, 1988
SSRL / Correspondence - Memos	Distribution / Bland -- Review Draft of OEXP ( Office of Exploration ) Exploration Studies Technical Report	August 28, 1988
SSRL / Correspondence - Memos	Distribution / Lister -- Human Resources Calendar	July 22, 1988
SSRL / Correspondence - Memos	Pepper / Roberts -- NASA Grant NAG9-308 / Old Dominion University	January 30, 1989
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SSRL / Correspondence - Memos	IZ Staff / Bland -- Annual Report Status Note #1 / General Guidelines for Review of Annual Report Material	August 10, 1988
SSRL / Correspondence - Memos	Distribution / Roberts -- Material From 6/9/89 Telecom / "Tech Needs Input to Cycle 2"	June 9, 1989
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SSRL / Correspondence - Memos	Roberts / Koelle -- Students Visiting U.S.A. for Aerospace Studies	September 28, 1988
SSRL / Correspondence - Memos	Roberts / Val Verde -- SSRL Documentation Request	August 10, 1989
SSRL / Correspondence - Memos	Quayle / Truly -- Response to Vice President's Letter Dated 12/19/89	January 31, 1990

SSRL / Correspondence - Memos	Roberts / Friedland -- Phone Conversation Regarding Joint Work on Research & Development	
SSRL / Correspondence - Memos	Distribution / Aaron -- Establishment of the Exploration Technology Committee	February 22, 1988
SSRL / Correspondence - Memos	Craig / IC 3 / IR&D Focal Point -- 1988 General Dynamics, Space Systems Division IR&D Review	June 10, 1988
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SSRL / Correspondence-Memos	Wietz / Fletcher -- Civil Space Policy	April 21, 1988
SSRL / Correspondence-Memos	Underwood / Huffaker / Close-Out of Action #10A and 11 from Briefing to Dr. Fletcher on July 25, 1988	August 25, 1988
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SSRL / Correspondence-Memos	Roberts / Kral -- Sending copy of Book "Lunar Base Agriculture"	September 7, 1989
SSRL / Correspondence-Memos	Petri / Daga -- Utilizing Lava Tubes for Lunar Base Habitats	September 8, 1989
SSRL / Correspondence-Memos	Distribution / Finn -- Rationale for SEI ( Space Exploration Initiative )	July 3, 1990
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SSRL / Correspondence-Miscellaneous	Grant / University of New Mexico / NAG 9-245, Supplement 2	May 1, 1989
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	Proceedings of One Day Seminar on Planetary Excavation	September 8, 1989
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	Missions Models for LSB ( Lunar Surface Base ) Propulsion Systems Study	July 9, 1985
Gordon Woodcock	Transportation Networks for Lunar Resources Utilization	
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	Soviet Plans for Manned Flight to Mars	April 2, 1985
Louis D. Friedman	Mars Press -- Visions of 2010	March 1985
	Annotated Bibliography of Manned Mars Mission Plans	
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J. von Puttkamer	The Long-Range Future	1985
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R.D. Waldron	Lunar Manufacturing: A Survey of Products and Processes	October 4-11, 1986
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Weathers, Fields, Cox-MSFC	Surface Mining on the Moon	March 1-3, 1967
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Williams, McKay, Giles, Bunch	Mining and Beneficiation of Lunar Ores	
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Bonnie Cooper	Sources and Subservice Reservoirs of Lunar Volatiles	
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Lunar and Planetary Institute	Extraterrestrial Materials Processing and Construction / Final Report	January 31, 1980
Cullingford, Novara	Conceptual Design of a Piloted Mars Sprint Life Support System	
Gerald Diggers	A Factory Concept for Processing and Manufacturing with Lunar Materials	
Los Alamos National Laboratory	Manned Mars Missions / Working	September 1986

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William Farrand	Back to the Moon	March 1988
Fields, Weathers, Cox, Shotts	Problems and Techniques of Lunar Surface Mining	January 1967
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Bernie Fields	LESC / Space Station Freedom Overview Flight Elements	May 23, 1989
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John Graf	Excavation and Construction Operations for a Lunar Base	
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Sadeh, Criswell, Nowak	Construction Alternatives / Extraterrestrial Mining and Construction Workshop	May 2-4, 1988
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PhytoResource Research, Inc.	Food Production Techniques in Lunar and Martian Environments	June 15, 1987
Reynold Shotts	Systems for Lunar Surface Mining	October 30, 1967

United Aircraft Research Labs	Study of Trajectories and Upper Stage Propulsion Requirements for Exploration of the Solar System	September 1967
D.G. Rea	Mars Rover Sample Return ( MRSR ) Presentation	June 1988
Pieniazek, Touns	Preliminary Analysis of Payload Accommodations Between LEO & LS	January 19, 1990
Wernher Von Braun	The Next 20 Years of Interplanetary Exploration " First Words from Mars " Cartoon	1985
Morton Krasner	Feasibility Study of a Tungsten Water-Moderated Nuclear Rocket	September 13, 1972
Mark Craig, Technical Study Group	Human Exploration Study Requirements	September 8, 1989
Zubrin, Baker, Gwynne / AIAA	Mars Direct : A Simple, Robust, and Cost Effective Architecture for the Space Exploration Initiative	January 7-10, 1991
NASA-N.P. #001	Nuclear Thermal Rocket Stage Requirements / Revision I ( Draft )	September 13, 1991
NASA N.P. #002	Nuclear Thermal Rocket Engine Requirements / Revision I ( Draft )	September 13, 1991
Marshall Space Flight Center	Manned Mars / Lunar Studies, Mid-Term Reviews	December 1-2, 1987
Exploration Programs Office	Mision Design Strategies for the Human Exploration of Mars	June 2, 1992
NPO-003	Nuclear Electronic Propulsion Engine Requirements / Draft	October 23, 1991
Borowski, Clark, Sefcik, Corban, Alexander	An Accelerated Development, Reduced Cost Approach to Lunar / Mars Exploration Using a Modular NTR-Based Space Transportation System	August 28-Sept. 5, 1992
Borowski, Alexander	"Fast Track" NTR ( Nuclear Thermal Rocket ) System Assessment for NASA's First Lunar Outpost Mission	July 6-8, 1992
Borowski, Alexander	"Fast Track" Lunar NTR ( Nuclear Thermal Rocket ) Systems Assessment for NASA's First Outpost and its Evolvability to Mars	October 16, 1992
Lazareth, Divadeenam, Schmidt	Prediction of the Radiation Dose to Humans During a Voyage to Mars	September 4-6, 1991
Paul Sager	Radiation Shield Design Considerations for Nuclear Rocket Space Vehicles	March 24-27, 1997
McDonnell Douglas Space Systems	United States / Russia Joint Technology Development Programs	
Spudis, Taylor	The Roles of Humans and Robots as Field Geologists on the Moon	May 1988
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NASA / Mission Planning and Analysis Division	Mission Requirements Data Base ( MRDB ) / Direct Access User's Guide	July 1987
Eagle Engineering	Design Goals and Technology Requirements for Future Launch Systems / Executive Summary ( Draft )	March 2, 1988
Neudecker, Blacik, Rowley	Subselene / A Nuclear Powered Melt Tunneling Comcept for High-Speed Lunar Subsurface Transportation Tunnels	
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Phinney, Criswell, Drexler, Garmirian	Lunar Resources and Their Utilization	
Podnieks, Roepke--Proceedings of Symposium '86--The First Lunar Development Symposium	Mining Technology Requirements for Lunar Resource Development	September 22-24, 1986
Podnieks, Roepke	Mining for Lunar Base Support	
	From Red Tape to Results : Creating a Government that Works Better & Costs Less / Report of the National Performance Review, Vice President Al Gore	September 7, 1993
Professor Alexander Gurshtein at MIT	The First Steps Toward the Moon / Some Skeletons in the Closet of Soviet Cosmonautics	
Life Sciences Research and Technology Programs	Strategic Considerations for Support of Humans in Space and Moon / Mars Exploration Missions / Volume I	June 1992
Borowski, Clark, Sefcik, Corban, Alexander	An Accelerated Development, Reduced Cost Approach to Lunar / Mars Exploration Using a Modular NTR ( Nuclear Thermal Rocket )-Based Space Transportation System	Aug. 28-Sept. 5, 1992
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	The National Space Science Data Center ( NSSDC )	January 1989
Martin Marietta	External Tank Gamma Ray Imaging Telescope Study / Final Review	December 1986
Space Transportation Architecture Study / General Dynamics	CSLI ( Civil Space Leadership Initiative )Architecture Implications	September 15, 1987
Sandia Laboratories	Mars Penetrator / Subsurface Science Mission	August 1974
JPL	Mars Polar Orbiter / Penetrator / Summary Report	August 1975
JPL	Requirements and Capabilities for Planetary Missions / Mars Polar Orbiter / Penetrator 1981	March 1976
Christopher Barns / Ames Research Center	Mars Penetrator Umbilical	
Bentley, Campbell	The Mars Penetrator Telemetry and Control System	August 1974
Blacic, Rowley	Surface Drilling Technologies for Mars	
Desing News	Coming : A Campus on the Moon	May 23, 1988
Lunar Bases & Space Activites in the 21st Century / Bufkin, Trevino	EVA ( Extravehicular Activity )Concerns for a Future Lunar Base	April 5-7, 1988
Ann Bufkin	Lunar Surface Transportation / Study Strategy and Plan Results	September 28,1988
SAE Technical Paper Series--Carnevale, McDonald	Oxygen Extraction for a Mission Life Support	July 11-13, 1988
Mining & Construction Workshop--Carrier, Mitchell	Geotechnical Engineering on the Moon	May 2-4, 1989
Proceedings of the Fourth Lunar Science Conference--Carrier, Mitchell, Mahmood	The Relative Density of Lunar Soil	
Preston Carter / Lockheed Engineering	Mars Rover Sample Return Lander Sizing Analysis	July 22, 1987
Carter, Davidson--Lockheed Engineering	Initial Results / Trade Study Between Propulsion and Parachutes	March 10, 1988
	USMB ( United States Bureau of Mines ) Examines Exotic Ways of Breaking Rock	April 1968

	The Space & Planetary Environment Criteria Guidelines for Use in Space Vehicle Development / Section 3 / The Moon	1982
Lunar Bases & Space Activities in the 21st Century / Billings, Walden, Dabrowski	Evolving Lava Tube Lunar Base Simulations With Integrated Instructional Capabilities	April 5-7, 1988
Blacic, Ander, Vaniman	Mars Surface Science Requirements and Plan	
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MSFC	Manned GEO Access Study / Transportation System Support and Technology Requirements	March 1982
	Dry Extraction of Silicon and Aluminum from Lunar Ores / Lunar Bases & Space Activities in the 21st Century / Anthony, Cochran, Haupin, Keller, Larimer	April 5-7, 1988
John Alred, JSC	Lunar Base Systems Study / Introduction	September 29, 1988
William Agosto	Beneficiation and Powder Metallurgical Processing of Lunar Soil Metal	1981
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John Alred /NASA Technical Monitor, Bill Stump / Eagle Engineering	Lunar Base Systems Study ASTS Support Contract	September 29, 1988
Pressurized Rover	Primary Control Research Vehicle / Draft	April 17, 1988
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On Orbit Assembly Workshop, NASA- KSC	On Orbit Assembly, Maintenance and Servicing / Space-Based Orbital Transportation System ( SBOTV )  Nuclear Electric Propulsion Cargo Vehicle	September 22, 1988
Spaceflight	A New Concept in Planetary Probes - The Mars Penetrator	
Contract NAS9-17772 / Seventh Progress Review	Advanced Missions Cost Model	March 9, 1989
	Conceptual Design of a Lunar Base Thermal Control System	
Presented at Surface System Final Review	Lunar TNIM	June 29-30, 1989
Doc. No. Z-2.4-002	Planet Surface System Requirements Document	March 15, 1989
Doc. No. Z-2.4-002	Appendix to Planet Surface System Requirements Document / Element Definition Forms	March 15, 1989
Mars Science Working Group Meeting / R.A. Wallace	Review of Mars Outpost Science Program / Science-Engineering Analysis	February 27, 1990
Nancy Ann Budden / LMEO	Human Exploration of the Moon and Mars / The Science Program for the NASA 90-Day Study	February 5, 1990
NASA Contract # NAS 9-17878 / EEI Report # 87-174	Space Transportation Nodes Assumptions and Requirements	April 18, 1988
NASA Contract No. NAS 9-17878 EEI Report #88-189	Lunar Storm Shelter Conceptual Design	May 1, 1988
Listing of LESC / Authored/Co- Authored Reports / Papers / Books, Compiled by the Lockheed Technical Library	Frontier Report	March 1989
NASA Contract No. NAS9-17878 EEI Report #87-173 Eagle Engineering	Maintenance and Supply Options	May 1988
David Petri, Tom Polette	Habitability Systems Concept Study	October 1, 1990
Journal of Spacecraft and Rockets,	Lunar Habitat Concept Employing the	May-June 1990

Vol. 27, No. 3	Space Shuttle External Tank	
Eagle Engineering Report 89-251	Support to Extraterrestrial Propellant Leveraging Trade Study / Final Report	August 15, 1989
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Report No. SAIC-87/1980 / Science Applications International Corp	Piloted Sprint Missions to Mars * This 46 page document has been scanned	November 1987
<b>SubHeading:</b>	<b>Box Number: 060*</b>	
	List of Lunar Reports Produced by Eagle Engineering, Inc. / *All 3 pages of this document have been scanned	1983-1988
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Johnson Space Center	CTSD ( Crew and Thermal Systems Division ) Life Support Activities Supporting PSS	September 18, 1990
Study Review for NASA-JSC by Steven Schwartzkopf	Lunar Base Controlled Ecological Life Support System ( LCELSS )	January 23, 1991
	Planet Surface Systems JSC / ARC Life Support Systems Discussion	September 18, 1990
Planet Surface Systems	LSS ( Life Support System ) Charts	February 6, 1990
Advanced Life Support Division NASA/Ames Research Center	Integrated Monthly Project Management Report ( PMR )	January 1991
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M.L. Roberts, ED2, Advanced Programs Office, JSC	Inflatable Habitation for the Lunar Base	April 5-7, 1988
Lisa Guerra, Large Scale Programs Institute	Lunar Base Element Definition : Habitation Architecture	June 20, 1988
	Lunar Base Inflatable Design Considerations	
M. Roberts, ED2	The Large Volume Lunar Habitat	April 26, 1989
John Frassanito & Associates	Inflatable Lunar Habitat Construction Sequence	
Easter, Buoni, McCauley	Mobility Study for a Lunar Rover	December 1, 1988
William Lewis / Grand Valley State University, MI / Paper No. LBS-88-131	Towards a Lunar Glass Fiber-Metal Composite: Production	April 5-7, 1988
Pearce, Patterson / Pearce Structures Incorporated / Paper No. LBS-88-177	A Building Technology for Extraterrestrial Application	April 5-7, 1988
Billings, Purdue, Dabrowski / Paper No. LBS-88-044	Evolving Lava Tube Lunar Base Simulations with Integral Instructional Capabilities	April 5-7, 1988
Dickinson, Watson / Paper No. LBS-88-119	Issues for Joining of Lunar Structural Materials	April 5-7, 1988
Ishikawa, Kanamori, Okada / Paper No. LBS-88-268	Possibility of Concrete Production on the Moon	April 5-7, 1988
Brandt Goldsworthy / Paper LBS-88-209	Composite Structural Materials from Lunar Regolith	April 5-7, 1988
John Graf	Excavation and Construction Operation for a Lunar Base	
Presented at the 1989 ASEE Annual Conference / Johnson, Burns, Chua, Duric, Gerstle, Taylor	Developing Concepts for Lunar Astronomical Observatories	June 25-29, 1989
Larry Toups, Working Group Week III, Human Systems	Lunar Construction Options	
Tom Polette / Lockheed	Analysis of Open and Closed Physical-Chemical Life Support Systems	February 7, 1990
John Gruener, Larry Toups / Lockheed	Formation of Lava Tubes and Their Potential Applications	February 7, 1990
Kennedy, Harris	System's Engineering Review of Airlocks for the Planet Surface Systems Office	June 1991

Langley Research Center	Humans to Mars / Space Station Accomodations Study / LaRC Input to CNDB Update	June 15, 1987
Larry Redd / Martin Marietta	Lunar Transportation System Optimization	
Frew, Stephenson	Designing a First : The Orbital Maneuvering Vehicle ( OMV )	1987
John Dzenitis, EC7	Integrated Active Thermal Control / Trade Study Status for the PSS Technical Status Review Board	October 4, 1990
Steven Schwartzkopf	Lunar Base Controlled Ecological Life Support System ( LCELSS )	July 18, 1990
Matsumoto, Namba, Kai, Yoshida, Sughara / Paper No. LBS-88-269	Concrete Structure Construction on the Moon	April 5-7, 1988
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Memo from Michael Roberts to Barney Roberts	Recommendation of Inflatable Habitat * All 5 pages of this document have been scanned	July 10, 1989
<b>SubHeading:</b>	<b>Box Number: 062</b>	
	Lunar Surface Module	January 10, 1989
	Mars Surface Module	January 18, 1989
	Weights Statement / Mars Surface Module / 60 Day, 4 Crew	
Mary M. Connors / Code EBM	Exploration Mission and Technology Planning Workshop Special Session: Humans in Space / Human Performance	
	Life Support Architecture Definition Study for Long Duration Planetary Missions Program Coordination Meeting	April 11, 1989
King, Butterfield, Hypes, Nealy, Simonsen / Langley Research Center	A Lunar Habitat Configuration Derived From A National Space Transportation System External Tank	January 1990
Hypes, Wright	A Survey of Surface Structures and Subsurface Developments for Lunar Bases	
Presentation to PSS TSRB / J.W. Brown, M. Brown	Status of Advanced Development Planning for the Life Support Subsystem	November 1, 1990
Man-Systems Division / Nathan Moore	Split-Level Hab / Lab Pros & Cons	
	Issues, Trade Studies and Solotions Affecting Planetary Habitation	
Jonn B. Hall	ECLS ( Environmental Control and Life Support ) System Study for the NASA / JSC Inflatable Lunar Base Habitat	December 1988
Warren Hypes	A Conceptual Design of an Environmental Control and Life Support System for the NASA / JSC Inflatable Lunar Base Habitat	July 22, 1988
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Nealy, Wilson, Townsend / Langley Research Center	Solar Flare Sheilding with Regolith at a Lunar Base Site	
Hypes, Hall / 18th Intersociety Conference on Environmental Systems ( SAE Paper 881058 )	ECLS ( Environmental Control and Life Support ) Systems for a Lunar Base / A Baseline and Some Alternate Concepts	July 11-13, 1988
	Lunar Construction	
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Pieniazek, Friesen, Weaver / Lockheed	Evolution of Space Station	May 1988

Engineering	Transportation Interfaces	
E. Brian Pritchard / LaRC Space Station Office	Evolution Requirements for the SSP ( Space Station Program ) Preliminary Requirements Review	January 10, 1989
General Dynamics Space Systems Division ( GDSS-CRAD-87-001 )	Long Term Cryogenic Storage Facility Systems Study / Phase II Summary Report	December 1987
James Sturm / ED22, Systems Definition Adv. Prog. Office	Lunar Base Systems Study ECLSS / TCS	September 29-30, 1988
Stuart Ross Taylor	The Origin of the Moon	1987
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	Lunar Base Systems Study--Tasks / Schedules. JSC Advanced Programs Office, John W. Alred	October 9, 1987
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Advanced Programs Office / Chester Lee	Exploration Rationale / Volume 2 / On Man's Role in Space, A Review of Potential Utilitarian and Humanistic Benefits of Manned Space Flight / October 30 Report of the Space Operations Task Force	1974
Stahl, Billings, Volosin, Johnson, Exploration Science Working Group	Exploration Rationale / Volume 4 / SEI Rationales and Benefits Overview / Economic Benefits of the SEI / Educational Benefits of the SEI / The SEI's Impact on the Quality of Life in the U.S. / International Participation in the SEI / A Rationale for the SEI; A Nation of Explorers / The Drive to Enhance Knowledge	1990
LMEPO Document XE-91-001, NASA	Analysis of the Synthesis Group's "Mars Exploration" Architecture	October 1991
ExPO Document XE-92-001, NASA	Analysis of the Synthesis Group's "Moon to Stay & Mars Exploration" Architecture	January 1992
	"America at the Threshold" / A Review of the Synthesis Report by Sandia National Laboratories	October 28, 1991



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Marshall Space Flight Center	First Lunar Outpost Lunar Habitat Documentation / Preliminary Definition Study by Program Development	May 1992
Martin Marietta	Manned Mars System Study / Volume I, Final Report / Executive Summary of Mars Transportation and Facility Infrastructure Study / NASA Marshall Space Flight Center / MCR-90-537 / NAS8-37126	July 1990
Martin Marietta	Manned Mars System Study / Volume II, Final Report / Technical Report, Mars Transportation and Facility Infrastructure Study / NASA Marshall Space Flight Center	July 1990
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Memo from Norman Chaffee	Final Versions of the System Engineering and Integration ( SE&I ) Office Trade Studies and Assessments	April 18, 1990
Memo from Edgar Lineberry	Final Versions of the Mission Development and Operations ( MDO ) Office Trade Studies and Assessments	April 20, 1990
Rice, Crabb, Hanley, Teeter	Final Report on Aluminum / Oxygen Propellant Rocket Engines for Lunar Transport Applications for Innovative Outreach Program / Office of Aeronautics, Exploration, and Technology / NASA / Contract NASW-4476 / OTC-FR-G007-90-1	May 23, 1990
Willian Dean, Robert Might	An Early Warning System for Monitoring and Evaluating Progress on Large Projects / Phase I / Data Acquisition Methods and Industry Reaction / NASA Contract NASW-4458 / Requisition/Project Number 10-49499	April 30, 1990
F. H. Cocks / Duke University	Deployable Magnetic Radiation Shields Using High Tc Superconductors / Final Report on Contract Number NASW-4453	
P. H. Fang, Boston College	Design Considerations of a Lunar Solar Cell Production Plant / Final Report / NASA Innovation Outreach Program / Office of Exploration / Contract No. 444W to Boston College / University Contract No. 5-23748	1990
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Walter Yuen, University of California	Project Report / A Small Particle	

	Catalytic Thermal Reactor ( SPCTR ) for the Conversion of CO and CO2 to Methane in a Gravity-Free Environment / NASA Innovative Space Exploration Research Contract No. NASA NAS@-4489 / Marc Shepanek, Program Manager	
Hammock, Currie, Fisher	Apollo Experience Report - Descent Propulsion System / NASA Technical Note D-7143	March 1973
Doug Cooke, LMEPO	Current SEI ( Space Exploration Initiative ) Strategy	October 1, 1991
Carl Case / Boeing	SEI ( Space Exploration Initiative ) Interchange Meeting	October 1, 1991
DoD Input to SEI	SEI ( Space Exploration Initiative ) for DoD ( Department of Defense ) Programs	September 30, 1991
Rockwell International	Space Exploration Initiative Technical Interchange	October 1-3, 1991
Presentation by Honeywell	Lunar / Mars Bases	January 15, 1991
	Presentation by United Technologies	
W.H. Siegfried / McDonnell Douglas	Analysis of the Report of the Synthesis Group on America's Space Exploration Initiative	
Dr. Jim Blacic, Los Alamos National Laboratory	LIBS / A Remote Resource Diagnostic / NASA/JSC SEI ( Space Exploration Initiative ) Interchange Meeting	October 1-3, 1991
J.L. Hieatt, TRW	SEI ( Space Exploration Initiative ) Technical Interchange	October 1-3, 1991
Bialla, Simon / General Dynamics	SEI ( Space Exploration Initiative ) Attributes and Synthesis Group Architectures Assessment / Presentation at SEI Technical Interchange Meeting	October 2, 1991
IBM	Advanced Planning for Performance and Capability Growth / Technology Insertion	July 2, 1991
	Overview of DOE ( Department of Energy ) Space Exploration Initiative Activities / Fenton Carey, SEI Technical Interchange Meeting	October 1-3, 1991
T.E. Styczinski, Lockheed	Exploration Programs Status Update / Space Exploration Initiative Technical Exchange	October 1-3, 1991
Clark, Geels, Sutter, Zaveri, and Zubrin / Martin Marietta	Chemical Propulsion, Aerocapture, Nuclear Propulsion and Hybrids for the Space Exploration Initiative	August 17, 1991
	Advantages of HYTEC ( GE Thermally Regenerated Fuel Cells )	September 27, 1991
	NASA's Analysis of the Synthesis Group's Mars Exploration Architecture / Space Exploration Initiative Technical Interchange	October 1-3, 1991
Rockwell International	2nd Generation-Modular Lunar Base	
H.C. Mandell	EXPO ( Exploration Programs Office ) Near Term Plan	January 7, 1992
Kent Joosten	First Lunar Outpost / Mission and Design Guidelines / Presented at the ExPO Technical Interchange Meeting	January 7, 1992
Buoni, Guerra	Final Draft / Management and Operations Analogs to the Space Exploration Initiative ( SEI ) / U.S. Antarctic Program: A Case Study / A Briefing to JSC Planet Surface Systems Office	December 20, 1991
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	SEI ( Space Exploration Initiative ) Reference Mission / Presented at the	January 7, 1992

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**Box Number: 066**

Goracke, Perronne / Rocketdyne Division, Rockwell International	Near-Term Waypoint Power Options / EXPO SEI Technical Interchange Meeting	January 7-8, 1992
General Atomics	Thermionic Systems for the Space Exploration Initiative ( SEI )	December 1991
	Application of SP-100 Technology to Early SEI ( Space Exploration Initiative ) Missions / Presented by N.W. Brown / NASA Exploration Programs Office SEI Technical Interchange Meeting / University of Houston-Clear Lake, Houston, Texas	January 7-8, 1992
Martin Marietta	Near-Term Lunar / Mars Mission and Vehicle Concepts / Presented to SEI Technical Interchange Meeting	January 8, 1992
	BDM Presentation by James R. Morrison, Werner Gruhl & Stewart Johnson on January 8, 1992 / 2nd SEI ( Space Exploration Initiative ) Interchange Meeting JSC, January 7 & 8, 1992	January 8, 1992
	Initial Programmatic Milestone Concepts / Bill Fedor / Boeing	January 8, 1992
Gordon Woodcock / Boeing-Huntsville	Lunar Direct / Direct Mode Analysis	
Stewart Johnson, Jack Burns	Technology Development for Large Lunar-Based Observatories: The Role of Artemis, Common Lunar Lander	July 1-2, 1991
	Lunar Lander Payload Concepts / Presented to SEI Technical Interchange NASA / JSC Exploration Programs Office January 8, 1992 by Dr. James D. Blacic, Los Alamos National Laboratory	January 8, 1992
	Alternatives for Near Term SEI ( Space Exploration Initiative ) Missions / Presented by: Orbital Sciences Corporation to NASA Exploration Programs Office	January 8, 1992
Hubert Davis - Davis Aerospace Company / John Frassanito & Associates	Preliminary Assessment of a Space Shuttle-Based Lunar Lander	January 8, 1992
	Vehicle Sizing for an Early Lunar Mission	
Stephen Bailey, New Initiatives Office	Artemis Common Lunar Lander Project Status / Presented to SEI Technical Interchange	January 8, 1992
David Eichelberger, Chief Mechanical Engineer United Engineers & Constructors / Teamed with Boeing Defense & Space Group	Material Handling of Lunar Regolith	
Howe, Leonard, Johnson	Terrestrial Simulators for Lunar Surface Operations / N-DO Briefing for the LMEPO SEI Technical Exchange	January 7-8, 1992
Gerald Falbel, Barnes Engineering	Lunar Orbit Spacecraft Attitude and Automatic Orbit Maintenance System	
John T. McGraw, Steward Observatory, University of Arizona	An Early Lunar-Based Survey: The Lunar Transit Telescope	
Marland Stanley, Space Nuclear Systems	DOE ( Department of Energy ) SEI ( Space Exploration Initiative ) Propulsion Program	
T. Gunn, Gunn Laboratories	Preliminary Earth to Mars Transportation Safety Technological Barriers	
	2nd SEI ( Space Exploration Initiative ) Technical Interchange Proceedings / Sponsored by the Exploration	January 7 & 8, 1992

	Programs Office and the University of Houston-Clear Lake / Coordinated by Doug Peterson	
U.S. Department of Energy	Lunar Resource Mapper / Presentation to Dr. Michael Griffin, NASA Office of Exploration	November 14, 1991
Brand Griffin, Boeing	Rover First: Dual Mode Operations for Early and Long-Life Exploration	January 7, 1992
	Before and After the Dress Rehearsal	
General Dynamics	Moon / Mars Architectures - Initial Milestone Selection and Supporting Early Projects / Presentation at SEI Technical Interchange Meeting #2, Houston, TX	January 7, 1992
Oran and Mateik, Bendix Field Engineering Corporation / Allied-Signal Aerospace Company	Industrial Support and a Lunar Communications Base	1991
Robert Mulvihill, PRC, Inc.	Risk Assessment in Program Milestone & Mission Analysis	January 7-8, 1992
Sandia National Laboratories	Support Technologies for Early Lunar Return	
Terry Payne, Oak Ridge National Lab	Supporting Technologies for Early Missions / Presentation at SEI Technical Interchange Hosted by the Exploration Programs Office	January 7, 1992
J. Erickson, ER / Automation and Robotics Division	Simulate Sooner and Often Rather Than Later or Not At All	December 1991
Exploration Programs Office	NASA's Analysis of the Synthesis Group's " Moon to Stay and Mars Exploration " Architecture / SEI Technical Interchange Meeting	January 7-8, 1992
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	3rd SEI ( Space Exploration Initiative ) Technical Interchange Proceedings / Sponsored by the Explorations Programs Office and the University of Houston-Clear Lake / Coordinated by Doug Peterson	May 5-6, 1992
	Lunar Rover / Mobility Systems Workshop -- Preliminary Report	April 29-30, 1992
	Some Geologic Problems of Mars / Technical Report No. 32-400 / Alden Al Loomis / Jet Propulsion Lab	March 4, 1963
Moon Landing Map	Geologic Map of Apollo Landing Site 2 ( Apollo 11 ) / Part of Sabine D. Region Southwestern Mare Tranquillitatis / by Maurice J. Grolier / Map # I-619 [ORB II-6 (25)] / Published by the U.S. Geological Survey, Washington, D.C.	1970
Lunar Map	Geologic Map of the Near Side of the Moon / by Don E. Wilhelms and John F. McCauley / Map # I-703 / Published by the U.S. Geological Survey, Washington, D.C.	1971
	Countdown to Space Exploration / A Memoir of the Jet Propulsion Laboratory, 1944-1958 / Jet Propulsion Lab, California Institute of Technology / by William Pickering with James H. Wilson	October 1992
	JSC Pre-Phase A Study / Mars Rover Sample Return Mission / Aerocapture, Entry, and Landing Element / Prepared by Joe D. Gamble / Approved by Ronald Kahl / JSC-23230	May 1, 1989
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Handbook of Lunar Materials. NASA Reference Publication 1057. Edited by Richard J. Williams, James J. Jadwick, Houston, Texas	February 1980
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Continued

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**Box Number: 199**

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Box Number: 51

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