

CENTER SERIES

ADVANCED PROGRAM PLANNING

The responsibility for planning advanced missions for the Johnson Space Center has resided with a number of offices throughout the years. (A list of the offices involved and the years when they existed follows.) The most consistent effort has been in the Engineering Directorate which is responsible for conducting studies that advance the manned space flight program as an outgrowth of existing programs. The subseries consists, for the most part, of published reports produced by JSC advanced planning groups. However, there are also numerous materials originating with NASA Headquarters, NASA contractors, the DoD, and organizations such as the President's Space Task Group charged with recommending goals for the future to NASA. The materials are filed chronologically. Multi-volume study reports have been kept together even though individual volumes may be dated differently. The subseries concludes with a collection of NASA Long Range Program Plans (formerly called NASA Five Year Planning or NASA Program Plan) and their companion documents, the NASA Space Systems Technology Model. NASA began to produce the Long Range Plans annually in 1976. The Technology Models were also produced annually starting three years later in 1979. Neither of these advanced planning forecasts were published in 1987 or 1988 between the Challenger accident and the return to flight. Also of interest in the subseries are files related to the SPART (Space Research and Technology Study), the OAST Space Theme Workshop, the Woods Hole "Think-tank" Symposia, and the U.S. Army Project Horizon Lunar Base Study. For further information on NASA planning, see the NASA Management subseries. 1964 - 1966 Space Station Study Office, Engineering Directorate 1964 - 1969 Office of Long Range Planning, Engineering & Director's Office 1966 Advanced Spacecraft Planning, Director's Office 1966 - 1973 Advanced Mission Planning, Flight Operations Directorate 1967 Space Station and Future Mission, Engineering Directorate 1968 Future Mission Project Office, Apollo Applications Office 1968 Advanced Spacecraft Technology Division (Planetary Missions), Engineering Directorate 1969 - 1970 Advanced Missions Program Office 1969 Advanced Earth Orbital Missions, Engineering Directorate 1971 - 1980 Technical Planning Office 1971 Space Station Project Office, Engineering Directorate 1972 - 1979 Future Programs Division, Engineering Directorate 1972 - 1973 Spacecraft Concept Design Group, Engineering Directorate 1974 - 1976 Advanced Mission Planning, Data Systems and Analysis

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	Across the Space Frontier (Collier's Symposium)	1953
	Project Horizon: A U.S. Army Study for the Establishment of a Lunar Military Outpost, Volume I - IV	June 8, 1959
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	A Lunar Exploration Program Based Upon Saturn Boosted Systems-U.S. Army Ordnance Missile Command	February 1, 1960
	Space Flight Beyond the Moon: A Story of Advanced Propulsion Systems for Interplanetary Flight	1962, 1965
	A Review of Space Research. The Report of the Summer Study conducted under the auspices of the Space Science Board of the National Academy of Sciences	June 17 - August 10, 1962
	Space Research: Directions for the Future. Report of a Study by the Space Science Board. Woods Hole, Massachusetts	1965
	The Space Program in the Post-Apollo Period. A Report of the President's Science Advisory Committee	February 1967
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	Andy Meyer: Advanced Spacecraft Technology Division and Advanced Missions Program Office Meeting Notes (11 vols.)	1967 - 1970
	Boeing Company Integrated Manned Interplanetary Spacecraft Concept Definition, Volume I - III	January 1968
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	Boeing Company Integrated Manned Interplanetary Spacecraft Concept Definition, Volume IV - VI	January 1968
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	Post Apollo Earth Orbital Manned Space Flight Program Options to Post Apollo Advisory Group	February 15, 1968
	Long Range Planning Study, Presentation to NASA Headquarters	July 25, 1968
	Advanced Planning Program for MSC	August 28, 1968
	An Analysis of the Allocation of Federal Budget Resources as an Indicator of National Goals and Priorities to the National Aeronautics and Space Administration, Contract NASW-1146	February 10, 1969
	The Outer Solar System: A Program for Exploration. Report of a Study by the Space Science Board of the National Academy of Science	June 1969
	MSC Management Philosophy for Advanced Programs	March 1969
	An Integrated Program of Space Utilization and Exploration for the Decade 1970 to 1980 Summary	July 10, 1969
	Planetary Program Review	July 11, 1969
	An Integrated Program of Space Utilization and Exploration for the Decade 1970 to 1980	July 16, 1969
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	Proposal for Enhancing NASA Technology Transfer to Civil Systems (Office of Advanced Research and Technology)	September 26, 1969
	The Post Apollo Space Program: Directions for the Future. Space Task Group Report to the President	September 1969
	America's Next Decades in Space: A Report for the Space Task Group	September 1969
	North American Rockwell Nuclear Flight Stage and Payloads Study, NAS8-24975 Phase I Review (Tasks 1 - 10)	October 7, 1969
	North American Rockwell Nuclear Flight Stage and Payloads Study, NAS8-24975 Interim Phase II Review (Tasks 1 - 10)	January 28, 1970
	Report on Technology Requirements of NASA OSSA Launch Vehicle and Propulsion Programs to the National Aeronautics and Space Administration, NASW-1146	December 17, 1969
	Advanced Program Plan Study Work Plan, December 1969 - June 1970	December 24, 1969
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	NAS9-9018, Advanced Spacecraft Subsystem Cost Analyses, Structure / Subsystem Integration, 3 volumes	January 2, 1970
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	NAS9-9018, Advanced Spacecraft Subsystem Cost Analyses, Environmental Control System, 3 volumes	January 2, 1970
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	Lockheed Missiles and Space Company Nuclear Flight Systems	October 6, 1969

	Definition Study, NAS8-24715, First Interim Briefing	
	Lockheed Missiles and Space Company Nuclear Flight Systems Definition Study, NAS8-24715, Second Interim Briefing	January 29, 1970
	Lockheed Missiles and Space Company Nuclear Flight Systems Definition Study, Phase I NAS8-24715, Volume I - 4	May 1, 1970
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	Loftus Advanced Programs Presentation and Reference Materials (8 folders)	1969 - 1973
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	Lockheed Missiles and Space Company Nuclear Flight System Definition Study, NAS8-24715, Final Briefing	May 19, 1970
	Lockheed Missiles and Space Company Nuclear Flight System Definition Study, Phase III NAS8-24715 Performance Review	September 3, 1970
	The Next Decade in Space: A Report of the Space Science and Technology Panel of the President's Science Advisory Committee	March 1970
	Study Manager's Report on the MSC Advanced Program Plan Study (regarding nuclear stage program planning)	c. March 1970
	Estimates of Future Automated Space Mission Model for Use in NASA Launch Vehicle Planning to National Aeronautics and Space Administration, NASW-2018	May 15, 1970
	McDonnell Douglas Astronautics Company Nuclear Flight System Definition Study, Final Report, Volume 1, Summary	May 1970
	North American Rockwell Nuclear Flight System Definition Study, Phase II Final Report, Volume 1, Summary	August 1970
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	Advanced Program Plan Study, Executive Summary	August 1970
	Aerospace Corporation, Manned Space Flight Studies Presentation	July 7, 1970
	Advanced Program Plan Study, Volume 1: STG Derived Program and Project Development	August 1970
	Advanced Program Plan Study, Volume II: Complementary Program and Project Factors	August 1970
	Advanced Program Plan Study, Volume III: Appendixes A, B, C, D, E, and H - Detailed Program Plans and Project Summaries	August 1970
	Advanced Program Plan Study, Volume IV: Appendixes F and G - Budgetary and Detailed Cost Data	August 1970
	Aerojet Nuclear Systems Company Reference Mission Data Book for NERVA Design, Volume I, Mission Data and Descriptions	November 1970
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	NASA's Major Challenges for the Seventies	1970

	General Flight Systems Descriptions from the Integrated Space Flight Program: 1. Automated Scientific Packages 2. Manned Automated Scientific Packages 3. Manned Spacecraft . General Use Vehicle	c. 1970's
	Hudson Institute, Contextual Planning for NASA: A Second Workbook of Alternative Future Environments for Mission Analysis, Volume 1	April 30, 1971
	Rockwell Philosophy and Outline of Long-Range Space Planning for the Needs of this Nation and Mankind	July 1971
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	Planning Advanced Missions Five Year Planning Guideline	July 21, 1971
	Plans for 80's Programs (A Plan for a Plan), MSC E&D Presentation	September 1971
	Battelle Advanced Space Program Objectives Analysis Volume I, Technical Proposal	July 7, 1972
	The Ehrenfield Corporation Technical Proposal for Advanced Space Program Objective Analysis	July 14, 1972
	Optimal Data Corporation Technical Proposal for Advanced Space Program Objective Analysis	July 14, 1972
	Harbridge House Technical Proposal for Advanced Space Program Objective Analysis, Volume I	July 14, 1972
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	Bendix Corporation Advanced Space Program Objective Analysis, Volume I, Technical Proposal	July 1972
	Office of Manned Space Flight Advanced Program Studies Catalogue of Results	July 1972
	SPART (Space Research and Technology Study) Phase III Report, Sensors and Flight Experiment Equipment Technology	July 21, 1972
	SPART (Space Research and Technology Study) Phase III Report, Research in Physics, Chemistry, Mathematics, and Computer Sciences	July 21, 1972
	SPART (Space Research and Technology Study) Descriptions and Objectives	1972
	SPART (Space Research and Technology Study) Correspondence	1972
	SPART Notes of Mr. Dallas Evans, Program Scientist (2 folders)	1969 - 1972, n.d.
	Aerospace Corporation Advanced Missions Safety, Volume I: Executive Summary	October 15, 1972
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	Niehoff and Grivas, Space Shuttle and Planetary Missions	May 1973
	Free-Flying Lab - Shuttle Supported Presentation Material	August 2, 1973
	Rockwell International, Unmanned Orbital Platform Summary Report, NAS7-200 (UOPD)	September 15, 1973
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	The Aerospace Corporation Advanced Space Program Studies, Overall Executive Summary, NASW-2472	September 1973

	The Aerospace Corporation Operations Analysis (Study 2.1) Payload Designs for Space Servicing Addendum	September 30, 1974
	Outlook for Space, 1980 - 2000. A Summary of Potential Earth Oriented Activities	December 20, 1974
	Future Aeronautics and Space Opportunities Volume I: Space	1974
	The Aerospace Corporation Study of the Commonality of Space Vehicle Applications to Future National Needs, NASW-2727	March 24, 1975
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	Outlook for Space Reference Volume: A Forecast of Space Technology, 1980 - 2000 Final Draft	July 15, 1975
	ECON Incorporated A Review of the Economic Implications of the National Academy of Engineering 1974 Study of the Potential Application of Space Systems	September 1975
	Study Plan, NASA Study 2.1, Advanced Space Planning and Conceptual Analysis	December 1, 1975
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	Outlook for Space - A Synopsis Report to the NASA Administrator by the Outlook for Space Study Group	January 1976
	National Aeronautics and Space Administration OAST Space Theme Workshop, Volume I - IV	April 26 - 30, 1976
	The Aerospace Corporation Advanced Space Program Studies Overall Executive Summary, NASW-2727	March 1976
	The Aerospace Corporation Advanced Space Planning and Conceptual Analysis, NASW-2884	May 14, 1976
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	The Aerospace Corporation Advanced Space Planning and Conceptual Analysis, (Study 2.1) Final Report, Volume II - III, NASW-2884	April 15, 1977
	Advanced Program Study, Merits of Water Electrolysis in Space	May 1977
	Aerospace Corporation Integrated Planning Support Functions, Volume I and 2: Executive Summary and Study Report	June 1977
	Space Exploration - The Golden Decade Presentation to 28th IAF Congress	September 25 - October 1,
	Jet Propulsion Laboratory A Benefit and Role Assessment of Advanced Automation for NASA	April 14, 1978
	GSFC Multi-mission Modular Spacecraft (MMS) External Interface Specification and User's Guide	April 1978
	An Overview of Advanced Program Activities - Presentation to the Center Director	June 30, 1978
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	The Aerospace Corporation Preliminary Definition and Evaluation of Advanced Space Concepts, Volume I: Executive Summary	June 30, 1978
	Extraterrestrial Materials Processing and Construction, Final Report	September 30, 1978

	Overview of Office of Space Transportation Systems Future Planning	1978
	JSC Future Planning / Five Year	1978
	Cross Cutting Technology Presentations	April- May 1979
	Space Horizons: A Search for Potential Innovative Futures	September 15, 1979
	Los Alamos Scientific Laboratory Selection of Power Plant Elements for Future Reactor Space Electric Power Systems	September 1979
	Executive Summary, Innovation Study Symposium - Woods Hole, Massachusetts	June 10 - 16, 1979
	Report to the NASA Advisory Council on the Woods Hole "Brain-storming" Symposium	June 10 - 16, 1979
	Space Systems Engineering FY 1982 - 1991 Ten Year Plan, Presentation to NASA Planning Council	May 1980
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	A Report of the Discussion at the NASA Advisory Council's New Directions Symposium - Woods Hole, Massachusetts	June 9 - 14, 1980
	Collections of Working Papers, New Directions Symposium - Woods Hole, Massachusetts	June 1980
	Report of the Discussions at the NASA Advisory Council's New Directions Symposium, Woods Hole, Massachusetts, June 9 - 14, 1980	September 19, 1980
	NASA Planning Issues	1977, 1980
	Advanced Planning Correspondence	1978, 1980
	Spacecraft Technology Plan, Second Draft, Volume II Detailed Tasks and Requirements	June 1981
	NASA's Next Decade: A Program Planning Report	August 1981
	Report of the Lunar Base Working Group	April 23-27, 1984
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	NASA TM-58264, Design Study of an Integrated Aerobraking Orbital Transfer Vehicle	March 1985
	JSC-20593, A Design Study for an Aeroassist Flight Experiment	June 1985
	AIAA, Future Exploration Supportability Considerations	April 7, 1988
	Johnson Space Center New Initiatives Office, Advanced Programs Submission to Office of Space Flight. RTOPS for POP 88-1	May 13, 1988
	Advisory Committee on the Future of the U.S. Space Program (Augustine Committee) Preliminary Recommendations and related materials	1988 - 1991
	Lunar Outpost Workshop	August 1989
	Report of the 90-Day Study on Human Exploration of the Moon and Mars	November 1989
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	Compendium of Future Space Activities (Program Planning Office)	1976 - 1979, 1982

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	OSTS Five and Ten Year Plans FY 1980 Through FY 1993 4 volumes	January 1979 - December 1
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