

CENTER SERIES
WILLIAM E. SIMON PAPERS

William E. Simon joined NASA on February 18, 1963 at the tail end of the Gemini program just after receiving his undergraduate in Mechanical Engineering from the University of Southwestern Louisiana. His early assignments included conducting a transient thermodynamic analysis on the Apollo fuel cell power generation system. He also earned a M.S. and Ph.D. in Mechanical Engineering from the University of Houston in 1966 and 1970 respectively. In 1988, Bill worked for the Space Station Project Office (SSPO) as Manager for Systems Engineering Office, reporting to the Systems Engineering and Integration Office (SE&I). The System Engineering and Integration Office was responsible for overall systems engineering, analysis, and integration of the WP-2 systems and elements. They also were responsible for development of engineering master schedules and flight crew integration. In 1990, Mr. Simon chaired the External Maintenance Solutions Team (EMST) to evaluate the recommendations of the External Maintenance Task Team. The purpose of the EMTT study was to assess the requirement for external maintenance, to determine EVA crew time required by current station designs if all external maintenance were by EVA, and to develop possible trade-offs between EVA time, robotics time, and movement of Orbital Replacement Units (ORU) inside pressurized areas. This collection was donated by William E. Simon on July 20, 2009. Loose materials and files were rough sorted into five series: Personal (including a term paper), Power Generation (including Fuel Cells and Solar Powered System), JSC Management, Engineering Directorate, and SSPO. The SSPO is roughly sorted into general information, Simon's work in the Advanced Development Office, and later as chairman of the Space Station Freedom External Maintenance Solutions Team, a sub-unit of the External Maintenance Task Team that produced the Fisher-Price report. Duplicates of the Space Station Project Office Emergency Maintenance Task Team, JSC telephone directories, and the Space Shuttle Technical Conference were removed. A VHS cassette of the Space Station Freedom EVA Maintenance Briefing dated July 20, 1990 was separated into the JSC video collection. A copy of the four-volume Fisher Price report is found in the Space Station Series, Section 093.

Inventory

SubHeading:	Box Number: 01	
Personal	Aerospace America - Special Report The Propulsion Challenge	July 1990
Personal	The Propulsion & Power Division—An Analysis Guided by the Propositions of Thompson	December 14, 1976
Personal	Simon, William E. (retirement and oral history transcript)	1984, 1990
Power Generation	Program Cryo	ND
Power Generation	Dielectric Constant of Oxygen	1971
Power Generation	The Specific Heat Input of Oxygen; NBS 9718	ND
Power Generation	Study of Oxygen and Nitrogen Generating Systems; NBS 9757	1970
Power Generation	Thermodynamic Evaluation of a Supercritical Cryogenic Storage System	June 14, 1968
Power Generation	Thermal Dissociation	1974
Power Generation	Hydrogen Storage and Production Processes (notes)	1975, ND
Power Generation	Solar Power Satellite Space Vehicle (SPS)	1977
Power Generation	Electrical Power and Cryogenic Gas Storage Systems Study for AAP MSC 67-EP-5	February 14, 1967
Power Generation	Shuttle Electromechanical Fuel Cell Program NAS9-18277	March 25, 1991
SubHeading:	Box Number: 02	
JSC Management	Project Management Shared Experience Program	August 28, 1987
JSC Management	Project Management Shared Experience Program Handouts	August 28, 1987
JSC Management	Seminar in Management	1985
JSC Management	New Employee Orientation Handouts	1990

SubHeading:	Box Number: 03	
Space Station Program Office	Advanced Development Activities * Space Station Program Office * SSPO	November 1985
Space Station Program Office	SE&I Functional Area Managers Agreements (KC2)	1988
Space Station Program Office	SE&I Technical Integration Panel	1988
Space Station Program Office	EVA Task Project * SSPO	January 1988
Space Station Program Office	Growth Technologies Recommendations * SSPO	ND
Space Station Program Office	Management Agreements between JSC and the SSPO	1987
Space Station Program Office	Space Station Assignments	1988
Space Station Program Office	Space Station Projects Office Directives	1988
Space Station Program Office	Space Station Projects Office Personnel Directory	1990
Space Station Program Office	Advanced Development Technology Reports (Neural Networks, Fuzzy Logic, Wavelet Technology) * SSPO * Space Station Program Office	1989
Space Station Program Office	Distribution of SSPO Tasks * Space Station Program Office	ND
Engineering Directorate	Engineering Directorate Reorganization	March 3, 1990
Engineering Directorate	Program Engineering Office FY88 Annual Report	1989
Engineering Directorate	Program Engineering Office FY89 Annual Report	1990
Space Station Program Office	Advanced Development Abstracts * SSPO * Space Station Program Office	1987
Space Station Program Office	Advanced Development Evolution Working Group trip report * Space Station Program Office * SSPO	1987
Space Station Program Office	Advanced Development Overview Presentation * SSPO * Space Station Program Office	October 1985
Space Station Program Office	Advanced Development Programs— OAST * SSPO * Space Station Program Office	1985
Space Station Program Office	Advanced Development Reviews * SSPO * Space Station Program Office	1985-1986
SubHeading:	Box Number: 03 *	
Space Station Program Office	Space Station Projects Office Organization Charts * This 30 page document has been scanned	1988
SubHeading:	Box Number: 04	
Space Station External Maintenance Task Team (EMTT- Fisher Price) Space Station External Maintenance Solutions Team (EMST)	EMST Final Report	July 19, 1990
Space Station External Maintenance Task Team (EMTT- Fisher Price) Space Station External Maintenance Solutions Team (EMST)	EMST SAIC Review of Reliability Data	July 1990
Space Station External Maintenance Task Team (EMTT- Fisher Price) Space Station External Maintenance Solutions Team (EMST)	Reliability Data Analysis for Space Station Freedom Executive Summary (SAIC) DRAFT	June 18, 1990
Space Station External Maintenance Task Team (EMTT- Fisher Price) Space Station External Maintenance Solutions Team (EMST)	Reliability Data Analysis for Space Station Freedom Executive Summary (SAIC)	June 25, 1990
Space Station External Maintenance Task Team (EMTT- Fisher Price)	Research on Long-Life Assurance Technologies for Advanced Space	1990

Space Station External Maintenance Solutions Team (EMST)	Systems	
Space Station External Maintenance Task Team (EMTT- Fisher Price)	Space Station Freedom Design Changes January to June	June 1990
Space Station External Maintenance Solutions Team (EMST)	EMTT Management Review Presentation to Space Station Freedom Program Director	June 25, 1990
Space Station External Maintenance Task Team (EMTT- Fisher Price)	EMST report to Program Director	July 9, 1990
Space Station External Maintenance Solutions Team (EMST)	Space Station External Maintenance Task Team (EMTT - Fisher Price)	1990
Space Station External Maintenance Task Team (EMTT- Fisher Price)	Space Station External Maintenance Solutions Team (EMST)	
Space Station External Maintenance Task Team (EMTT- Fisher Price)	EMST Report to Associate Administrator	July 18, 1990
Space Station External Maintenance Solutions Team (EMST)	EMST Report to NASA Administrator	July 19, 1990
Space Station External Maintenance Task Team (EMTT- Fisher Price)	EMST Decision Packages	July 1990
Space Station External Maintenance Solutions Team (EMST)	Space Station Freedom External Maintenance Status Report	July 20, 1990
Space Station External Maintenance Task Team (EMTT- Fisher Price)	Clippings	July 1990
Space Station External Maintenance Solutions Team (EMST)	EMST Report to Program Director	June 25, 1990