

SHUTTLE SERIES
RICHARD H. KOHRS PAPERS

This subseries contains materials related to the National Space Transportation System (NSTS) Program from 1975 to 1989, with the majority of the collection dating from 1986 to 1989. It contains a number of interesting topics, chief of which are post-Challenger documents and memos on NSTS organization changes and shuttle redesigns. There is also an extensive memo and newspaper clippings collection for the year 1972. This year was a turning point for NASA in terms of presidential politics, the transition to post-Apollo programs (i.e., shuttle development), and Congressional funding of the space program. The provenance of this collection is Richard H. Kohrs, Deputy Director, NSTS Program from 1987-1989. He is currently Director of Space Station Freedom. Biographical data on Mr. Kohrs can be found in the contents folder for this collection. The original order of the collection was adjusted to account for the various subject areas. These subject areas are arranged in alphabetical order below. The contents are arranged by document number when available or chronologically when no document number is used. The Shuttle documents are arranged alphabetically. The subject areas are: Anomaly Status Reports JSC Documents JSCM Documents KSC Documents NASA TM Documents NSTS Documents Shuttle-C papers Shuttle Documents STS Documents Unmanned Shuttle Flight Verification/Certification Assessment of Shuttle Program A chronological placement was chosen for the remainder of the collection. The memo and newspaper clippings collection for 1972 has been placed in the Special Materials area in boxes 11-12. Included in this section are various memos from other NASA centers and Headquarters, as well as maps of a majority of the NASA centers.

Inventory

SubHeading:	Box Number: 01	
ANOMALY STATUS REPORTS	Anomaly Status Reports STS-1 to STS-61C	1981-1985
JSC DOCUMENTS	JSC 08934, v.4 Data Change Notification	May 10, 1988
JSC DOCUMENTS	JSC 08934, v.4, pt.1 Data Change Notification	June 29, 1989
JSC DOCUMENTS	JSC 11174 Space Shuttle Systems Handbook v.1 - Sections 1-11	April 20, 1988
SubHeading:	Box Number: 02	
JSC DOCUMENTS	JSC 12805 Flight Control Operations Handbook v.1 - Shuttle OPS, Final, Rev. C	July 1, 1988
JSC DOCUMENTS	JSC 14046, Annex 9 Description of Changes to Payload Integration Plan	September 14, 1984
JSC DOCUMENTS	JSC 16987 Flight Data File, PDRS Operations Checklist All Vehicles, Basic, Rev. A	October 18, 1985
JSC DOCUMENTS	JSC 21020 Leasat Salvage Mission Payload Integration Plan (Basic)	August 1985
JSC DOCUMENTS	JSC 21020, Annex 1 Payload Data Package - Annex Leasat Salvage Mission (Basic)	August 1985
JSC DOCUMENTS	JSC 22275 STS Crew Egress and Escape Study v.1 - Analysis	August 1986
JSC DOCUMENTS	JSC 22275 STS Crew Egress and Escape Study v.2 - Appendixes	August 1986
JSC DOCUMENTS	JSC 22354 Crew Scheduling Constraints (Basic)	March 1987
JSC DOCUMENTS	JSC 22729 Photo/TV Checklist (Generic)	November 13, 1987
JSC DOCUMENTS	JSC 22965 Mission Evaluation Room User's Guide	May 1988
SubHeading:	Box Number: 03	
JSCM DOCUMENTS	JSCM 2314, Rev. A JSC Document Index	August 1988
JSCM DOCUMENTS	JSCM 5312-S JSC Safety, Reliability, and Quality Assurance Manual	n/d
KSC DOCUMENTS	John F. Kennedy Space Center Space Shuttle Design Certification Review	March 22, 1979

(DCR)

SubHeading:

Box Number: 04

KSC DOCUMENTS	John F. Kennedy Space Center DCR (KSC Director L. Scherer's copy)	April 11, 1979
NASA TM DOCUMENTS	NASA TM 78118 Terrestrial Environment (Climatic) Criteria Guidelines for Use in Aerospace Vehicle Development, 1977 Revision (memos, notes included)	November 1977
NASA TM DOCUMENTS	NASA TM 82473 Terrestrial Environment (Climatic) Criteria Guidelines for Use in Aerospace Vehicle Development, 1982 Revision	June 1982
NASA TM DOCUMENTS	NASA TM 82478 Space and Planetary Environment Criteria Guidelines for Use in Space Vehicle Development, 1982 Revision (Volume 1)	January 1983
NSTS DOCUMENTS	NSTS 07700, v.3, Rev.F STS Flight Definition and Requirements Directives (with change sheets)	July 25, 1986

SubHeading:

Box Number: 05

NSTS DOCUMENTS	NSTS 08116, Rev.B Space Shuttle Data for Planetary Mission Radioisotope Thermoelectric Generator (RTG) Safety Analysis	September 27, 1988
NSTS DOCUMENTS	NSTS 08195 OV-104 Special Test Flow to Launch Pad 39B Integrated Test Plan	September 26, 1986
NSTS DOCUMENTS	NSTS 18798, Rev.A Interpretations of NSTS Payload Safety Requirements	April 1989
NSTS DOCUMENTS	NSTS 21111 STS-26 Integrated Cargo Hazard Assessment Report (ICHAR)	August 1988
SHUTTLE-C PAPERS	Shuttle-C memos (Systems CEI and Program Requirements Documents, Preliminary)	October 1988-March 1989
SHUTTLE-C PAPERS	Shuttle-C Senior Management Overview	February 24, 1989
SHUTTLE-C PAPERS	Shuttle-C Senior Management Overview	February 24, 1989
SHUTTLE-C PAPERS	Shuttle-C memo	February-March 1989
SHUTTLE-C PAPERS	Shuttle-C, Mr. Cohen and staff	n/d
SHUTTLE-C PAPERS	Shuttle-C materials (The Saga of Shuttle-C Planning, or, Why Doesn't Logic Prevail Within the NASA Hierarchy; STS Cargo Element (Shuttle-C); Shuttle-C Pocket Guide; Shuttle-C Fact Sheet	n/d

SubHeading:

Box Number: 06

SHUTTLE-C PAPERS	Shuttle-C - Today's Launch Vehicle for Tomorrow (promo material, includes calendar)	n/d
SHUTTLE DOCUMENTS	Avionics Interfaces and Requirements	1984
SHUTTLE DOCUMENTS	Management Splinter Session	1984?
SHUTTLE DOCUMENTS	Operations Splinter Session	1984?
SHUTTLE DOCUMENTS	Safety Guidelines and Requirements	1984?
SHUTTLE DOCUMENTS	Space Shuttle Payload Design and Development, Executive Overview	1984?
SHUTTLE DOCUMENTS	Structural/Mechanical Interfaces and Requirements	1984?
SHUTTLE DOCUMENTS	Thermal Interfaces and Requirements	1984?
STS DOCUMENTS	STS83-0926 Space Shuttle System Integration v.1 - Contractual Proposal	October 1983
STS DOCUMENTS	STS83-0926 Space Shuttle System Integration v.2 - Cost Proposal	October 1983

STS DOCUMENTS	STS84-0001 Information Requirements Document for Space Shuttle Systems Integration	April 1984
SubHeading:	Box Number: 07	
UNMANNED SHUTTLE FLIGHT	Unmanned Shuttle Flight material (memos, decisions made on this option in the early 1970's)	1972-1986
VERIFICATION / CERTIFICATION ASSESSMENT OF SHUTTLE PROGRAM	Space Shuttle Program Response to Verification/Certification Assessment - Special Staff Recommendations	June 1980
VERIFICATION / CERTIFICATION ASSESSMENT OF SHUTTLE PROGRAM	Space Shuttle Program Response to Verification/Certification Assessment - Special Staff Recommendations Second Set of Recommendations	July 1980
VERIFICATION / CERTIFICATION ASSESSMENT OF SHUTTLE PROGRAM	Space Shuttle Program Verification/Certification Assessment, Special Staff Recommendations - Response Given to Third Set of Recommendations	August 15, 1980
SubHeading:	Box Number: 08	
VERIFICATION / CERTIFICATION ASSESSMENT OF SHUTTLE PROGRAM	Space Shuttle Program Response to Verification/Certification Committee Recommendations - Electrical Power Distribution and Control	September 15, 1980
CHRONOLOGICAL MATERIAL	Space Shuttle System Summary	July 1975
CHRONOLOGICAL MATERIAL	Space Shuttle Solid Rocket Booster Fact Book	June 1977
CHRONOLOGICAL MATERIAL	Space Shuttle System Summary	January 1978
CHRONOLOGICAL MATERIAL	Space Shuttle System Capability (paper)	October 29 - November 1,
CHRONOLOGICAL MATERIAL	STS Mission Synopses	January 11, 1984
CHRONOLOGICAL MATERIAL	NAS9-17104 Launch Support Contract	February 14, 1984
CHRONOLOGICAL MATERIAL	FLPS 3.0 User's Guide	March 23, 1984
CHRONOLOGICAL MATERIAL	STS Mission Synopses	June 20, 1984
SubHeading:	Box Number: 09	
CHRONOLOGICAL MATERIAL	System Assurance Analysis of the Payload Bay Area Access Bridge, Orbiter Processing Facility, High Bay 1 & 2 (attached memo)	September 1986
CHRONOLOGICAL MATERIAL	Solid Rocket Motor Redesign and Reassessment (presentation)(color photos)	November 7, 1986
CHRONOLOGICAL MATERIAL	SRM Redesign and Reassessment (memo, b/w copy)	November 13, 1986
CHRONOLOGICAL MATERIAL	Briefing to Mr. Myers, Admiral Truly Space Shuttle Changes for First Flight	December 19, 1986
CHRONOLOGICAL MATERIAL	NSTS Organization and Responsibilities	October 14, 1987
CHRONOLOGICAL MATERIAL	NSTS Organization and Responsibilities (revised version)	November 2, 1987
CHRONOLOGICAL MATERIAL	NSTS Organization - Documents, presentations (I)	1987-1988
CHRONOLOGICAL MATERIAL	NSTS Organization - Documents, presentations (II)	1987-1988
SubHeading:	Box Number: 10	
CHRONOLOGICAL MATERIAL	NSTS Organization - Documents, presentations (III)	1987-1988
CHRONOLOGICAL MATERIAL	Level III Directives - Radioisotope Thermoelectric Generator (RTG)	1987-1988
CHRONOLOGICAL MATERIAL	Space Shuttle Payloads	January 15, 1988
CHRONOLOGICAL MATERIAL	Orbiter DCR - Presentation Agenda	March 3, 1988
CHRONOLOGICAL MATERIAL	NSTS Emergency Mission Control Center Activation and Operations	August 1988

Procedures Rev. 4		
CHRONOLOGICAL MATERIAL	Office of Technology Assessment Visit (NSTS Return to Flight Status)	September 22, 1988
CHRONOLOGICAL MATERIAL	STS-27 Structural Load Indicator Anomaly	December 16, 1988
CHRONOLOGICAL MATERIAL	RTG's Accident Scenarios	1988
SubHeading:	Box Number: 11	
CHRONOLOGICAL MATERIAL	Presentation to NASA Shuttle Ascent Review (NASA Material)	January 11-12, 1989
CHRONOLOGICAL MATERIAL	NSTS Engineering Integration Action Items	January 12, 1989
CHRONOLOGICAL MATERIAL	Improvement of Space Transportation Systems	January 26, 1989
CHRONOLOGICAL MATERIAL	Space Launch System Options and Costs for the Nineties	March 3, 1989
CHRONOLOGICAL MATERIAL	PCIN's	March 1989
CHRONOLOGICAL MATERIAL	All Hands Meeting (questions, responses, etc.)	March-April 1989
CHRONOLOGICAL MATERIAL	Rockwell Evaluation of Orbiter to Space Station Docking System	April 5, 1989
CHRONOLOGICAL MATERIAL	NSTS-SSFP Docking System Development	April 5, 1989
CHRONOLOGICAL MATERIAL	Kohrs pitch - NASA Advisory Council (presentation with color photographs)	May 16, 1989
CHRONOLOGICAL MATERIAL	NASA Programs - Fiscal Year 1989	1989
CHRONOLOGICAL MATERIAL	SRM Ignition Systems	n/d
CHRONOLOGICAL MATERIAL	Long-Duration Exposure Facility (LDEF) - Fact Sheet	n/d
CHRONOLOGICAL MATERIAL	Ascent Reconstruction Data Book	n/d
CHRONOLOGICAL MATERIAL	Space Shuttle News Reference	n/d
CHRONOLOGICAL MATERIAL	Escape Presentation	n/d
SPECIAL MATERIALS	Memos, newspaper clippings (I)	1972
SubHeading:	Box Number: 12	
SPECIAL MATERIALS	Memos, newspaper clippings (II)	1972
SPECIAL MATERIALS	Memos, newspaper clippings (III)	1972
SPECIAL MATERIALS	Memos from other centers, Headquarters (maps of other NASA centers)	n/d