

## CENTER SERIES

### LARGE SPACE STRUCTURES

The Large Space Structures subseries contains correspondence and reports which deal with various space transportation or power structures studies conducted between 1968-1982. These include the Power Extension Package (PEP) and a study on space construction. NASA documents (1978-1982) are filed after the correspondence. Contractor reports are arranged alphabetically by contractor name, with the largest section devoted to Grumman Aerospace. Concluding this subseries are three boxes of files originating with Samuel Nassiff of the Spacecraft Systems Division. Mr. Nassiff was technical monitor for the Rockwell Space Construction System Analysis Study and manager of the Orbital Construction Support Equipment contract with Martin Marietta.

#### Inventory

<b>SubHeading:</b>	<b>Box Number: 01</b>	
	Correspondence	1978-1982
<b>SubHeading:</b>	<b>Box Number: 02</b>	
	Large Space Systems Technology, Volumes I & II. NASA Conference Publication 2035.	Jan. 17-19, 1978
	Control - Structure Interaction in a Free Beam, by S.K. Shrivastra & R.C. Ried, JSC 16699	May 1980
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	Power System - STS Integration Tasks, Progress Report: August 15 - October 1, 1980, JSC.	Oct. 7, 1980
	Conceptual Power System Integration Plan: Space Transportation System and 25 KW Power System, JSC 16678.	Dec. 16, 1980
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	Satellite Services Workshop, Volumes I & II, JSC.	June 22-24, 1982
	Information Transfer Satellite Concept Study, Final Report, Volumes I & II. General Dynamics, NAS2-5571.	May 15, 1971
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	Advanced Composite Material & Structures Capabilities. General Dynamics.	April 1975
	Large Space Structures Fabrication Experiment (A Proposal for a), Volume I. General Dynamics.	Oct. 15, 1976
	Space Construction Automated Fabrication Experiment Definition Study (A Proposal for a), Volume I. General Dynamics	Nov. 28, 1977
	Beam Fabricator Technology, Application to Large Reflectors. General Dynamics.	March 16, 1978
	Orbital Propellant Handling and Storage Systems for Large Space Programs, Volumes I & II. General Dynamics, NAS9-15305.	April 14, 1978
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	Space Construction Automated Fabrication Experiment Definition Study (SCAFEDS), Final Report, Volumes II & III. General Dynamics, NAS9-15310.	May 26, 1978

	Space Construction System Analysis Study (A Proposal for a), Volume I. General Dynamics.	July 26, 1978
	A Proposal for a Space Construction System Analysis Study, Questions and Update to: Volume 1: Technical and Management, General Dynamics, GDC PIN 78-112	August 11, 1978
	Lunar Resources Utilization for Space Construction, Final Presentation. General Dynamics, NAS9-15560.	Feb. 21, 1979
	Space Construction Automated Fabrication Experiment Definition Study (SCAFEDS), Part III, Volume II. General Dynamics, NAS9-15310.	June 29, 1979
	Space Construction Automated Fabrication Experiment Definition Study (SCAFEDS), Part IV, Volume I. General Dynamics, NAS9-15310.	Jan. 14, 1980
	Graphite Composite Truss Welding and Cap Section Forming Subsystems, Intermediate Status Review, General Dynamics, GDC-ASP-80-002	March 18, 1980
	Large Space Structure Tension Tie Cable Study, Final Report. General Dynamics, NAS9-15689.	May 1980
	Orbital Construction Demonstration Study, Grumman Aerospace Corporation, NAS9-14916.	June 23, 1976
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	Orbital Construction Demonstration Study, Final Report & Executive Summary. Grumman Aerospace Corporation, NAS9-14916.	Dec. 1976
	Orbital Construction Demonstration Study, (1st Add-On Report). Grumman Aerospace Corporation, NAS9-14916.	Feb. 5, 1977
	Orbital Construction Demonstration Study, (2nd Add-On Report). Grumman Aerospace Corporation, NAS9-14916.	March 1, 1977
	Orbital Construction Demonstration Study, (3rd Add-On Report). Grumman Aerospace Corporation, NAS9-14916.	May 2, 1977
	Manned Geosynchronous Mission Requirements & Systems Analysis Study, Final Review - Phase 1 & 2. Grumman Aerospace Corporation, NAS9-15779.	May 1979
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	Manned Geosynchronous Mission Requirements & Systems Analysis Study, Volume 1 - Executive Summary. Grumman Aerospace Corporation, NAS9-15779.	Nov. 7, 1979
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	Manned Geosynchronous Mission Requirements & Systems Analysis Study Extension, 3rd Quarterly Review. Grumman Aerospace Corporation.	Nov. 25, 1980
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	Manned Orbital Transfer Vehicle (MOTV) Capabilities Handbook and User Guide. Grumman Aerospace Corp.	Feb. 1981
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	Satellite Services System Analysis Study, Volume 1 - Executive Summary. Grumman Aerospace Corporation, NAS9-16120.	Aug. 1981
	Manned Geosynchronous Mission Requirements & Systems Analysis Study Add-On (A Proposal for), Volumes 1 & 2. Grumman Aerospace Corporation.	Sept. 15, 1981
	Orbiter-Based Construction Equipment Study (OBCES), Final Review Phase I	January 28, 1982
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	Application of Advanced Electric / Electronic Technologies to Conventional Aircraft, Presentation. Lockheed, NAS9-15863.	Aug. 7, 1980
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	PEP System Definition Assessment and Orbiter Integration Analysis, Final Study Report. McDonnell Douglas Company, NAS9-15532.	Oct. 1980
	Space Shuttle Orbiter Power Extension Package (PEP) Interface Evaluation Study Summary Briefing. Rockwell International, NAS9-14000.	Nov. 1979
	Space Industrialization: An Overview, Final Report, Vol. 1. Space Industrialization Science Applications, Inc., NAS8-32197.	April 15, 1978
	Presentations: Large Space Systems Technology & LSS On-Orbit Experiment. TRW.	June 19, 1980
	Payloads Requirements / Accommodations Assessment Study for Science and Applications Space Platforms, 3rd Quarterly Review. TRW, NAS8-33758.	Oct. 15, 1980
	Liquid Rocket Propulsion: An AIAA Assessment of Our National Capability. TRW.	June 1982
	University of Alabama / NASA Workshop on Space Science Platform, Summary of Reports.	Aug. 1978
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	Space Construction Systems Analysis Study (SCSAS) Antenna Farm Concepts, Rockwell	1977 - 1979, n.d.
	Space Construction System Analysis Study (SCSAS) Correspondence, Rockwell	1978 - 1980, n.d.
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	SCSAS General Review Presentation, Rockwell	October 1979
	Space Construction System Analysis Study, NAS9-15718 Monthly Progress Report Nol. 6, Rockwell	January 1980
	SCSAS Structural Analysis SPS Microwave Antenna, Rockwell	January 1980
	Shuttle Modifications for Space Construction System Analysis, Rockwell	1980
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	Orbital Construction Support Equipment Study Correspondence,	1976 - 1977

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Orbital Construction Support Equipment Study Plan, Martin Marietta	October 1976
Orbital Construction Support Equipment Presentation Material and General Information, Martin Marietta	1976 - 1977,n.d.
Orbital Construction Support Equipment Final Review, Martin Marietta	June 1977
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Space Environmental Factors (Radiation)	1964 - 1977, n.d.
Subsystem Test bed Program Report Systems Evaluation and Test Summary, Internal Note No. 71-EW-4	March 18, 1971
Statement of Work - Large Space Erectable Structures	February 9, 1976
Space Fabrication Techniques Development Program Presentation Material, Grumman	February 12, 1978
Shuttle Launched Prefabricated Building	1976
Orbital Construction / Fabrication Presentation Charts	1976, n.d.
Applications of the Robotic Tool Systems Concept Presentation Material, JPL	May 9, 1977
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