

CENTER SERIES
ENGINEERING AND DEVELOPMENT DIRECTORATE

This subseries contains material (1963-1984) from JSC's Engineering & Development Directorate. This directorate is responsible for "in depth engineering and technical support for MSC spacecraft development programs" including extensive test and evaluation of hardware. It also directs the Center's Research and Technology Programs and conducts Advanced Studies of manned space flight. The first part of this section is devoted to Weekly Activity Reports (1967-1985), which review major activities undertaken in the directorate's divisions. The next section contains reports and presentations (1963-1981) released under the directorate's auspices. The annual review of engineering tests may be helpful in grasping the extent of E & D's activities. Also of particular interest are a series of seminars given by E & D staff members on aspects of engineering, design, and operation of manned spacecraft. The subseries is strongest in the area of engineering facilities.

Inventory

SubHeading:	Box Number: 01	
	Weekly Activity Reports (6 folders)	May 1967 - July 1968
SubHeading:	Box Number: 02	
	Weekly Activity Reports (2 folders)	August 1968-1969
SubHeading:	Box Number: 03	
	Weekly Activity Reports (2 folders)	1970
SubHeading:	Box Number: 04	
	Weekly Activity Reports	1971
SubHeading:	Box Number: 05	
	Weekly Activity Reports (2 folders)	1972 - May 1973
SubHeading:	Box Number: 06	
	Weekly Activity Reports (7 folders)	June 1973 - 1974
SubHeading:	Box Number: 07	
	Weekly Activity Reports (4 folders)	1975
SubHeading:	Box Number: 08	
	Weekly Activity Reports (6 folders)	1976
SubHeading:	Box Number: 09	
	Weekly Activity Reports	1977
SubHeading:	Box Number: 10	
	Weekly Activity Reports (2 folders)	1978
SubHeading:	Box Number: 11	
	Weekly Activity Reports (2 folders)	1979
SubHeading:	Box Number: 12	
	Weekly Activity Reports (6 folders)	1980
SubHeading:	Box Number: 13	
	Weekly Activity Reports (8 folders)	1981 - 1985
SubHeading:	Box Number: 14	
	Guidelines for Advanced Manned Space Vehicles	April 5, 1960
	Instrumentation & Electronic Systems Division: Activity Review	Mar. 1963
	Energy Systems Branch - Evaluation Program (Systems Evaluation and Development Division)	September 1963
	Summary of E & D Directorate Facilities and Laboratories	November 20, 1963
	Engineering and Development Directorate: Scope and Utilization of Laboratory and Office Facilities	Nov. 12, 1963

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Note: This item is missing as of
6/8/2007

E & D Division Weekly Milestone
Reports 1963

Description and Capabilities of the
Space Chambers of the Space
Environments Effects Section, MSC-
IN-63-74-5 Feb. 1964

Propulsion and Power Division
Evaluation Program, Revision A Apr. 1964

Operational Support of Laboratories
and Test Facilities at MSC:
Supplemental Information for
Prospective Contractors May 12, 1964

SubHeading:

Box Number: 15

Crew Systems Division Annual Status
Report 1964

Procedures for Planning and Reporting
In-House Test Activity in the
Engineering and Development
Directorate Apr. 5, 1965

Major Test Facilities of the Engineering
and Development Directorate Apr. 1965

Technical Discussions on Results of
the Manned Space Flight Supporting
Development Program October 12, 1965

Engineering and Development Project
Planning and Reporting System 1965

Major Test Facilities of the Engineering
and Development Directorate Apr. 1966

Benefits of the Manned Space Flight
Supporting Development Program:
Selected Highlights, Second Annual
Review Oct. 17, 1966

Engineering and Development
Directorate: Division Information
Booklets 1966

SubHeading:

Box Number: 16

Summary of Activities of the
Thermochemical Test Area During
Calendar Year 1966 Jan. 1967

Engineering and Development
Directorate Program Activities and
Relationships with the Office of
Advanced Research and Technology Apr. 1967

Manned Spacecraft Hardware /
Software Development Plans with
Selected Reference to Mainstream
Program Effort and SRT Work by
Other NASA Centers June 30, 1967

Selected Test Activities of the
Engineering and Development
Directorate July 1967

Supporting Development Program
Third Annual Review Oct. 24, 1967

Selected Test Activities of the
Engineering and Development
Directorate: July 1, 1967 Through
December 31, 1967 Jan. 1968

Planned Major Tests / Tasks of the
Engineering and Development
Directorate, FY-69 Jan. 1968

Planned Major Tests / Tasks of the
Engineering and Development
Directorate: January 1, 1968 Through
June 30, 1968 Jan. 1968

Planned Selected Test Schedules of
the Engineering and Development
Directorate Feb. 1968

	Directorate: Calendar Year 1968	
	Engineering and Development Directorate Manpower Utilization Plan Programmatic Break FY-69 with FY 1970 Projection	June 1968
SubHeading:	Box Number: 16 *	
	Summary of Activities of the Thermochemical Test Area During Calendar Year 1967 * All 128 pages of this document have been scanned * See Center-Eng Dir-16-Activities of Thermochemical	Jan. 1968
SubHeading:	Box Number: 17	
	Manned Spacecraft Hardware / Software Development Plans with Selected Reference to Mainstream Program Effort and SRT Work by Other NASA Centers: Final Review Copy	Sept. 20, 1968
	Major Test Accomplishments of the Engineering and Development Directorate, 1967	Oct. 1968
	Engineering and Development Directorate Manpower Utilization Data FY 1968 and Fy 1969	Nov. 22, 1968
	Selected Test Activities of the Engineering and Development Directorate, Calendar Year 1968	Mar. 1969
	Major Test Accomplishments of the Engineering and Development Directorate 1969: Directorate Internal Note, MSC-02531	June 1969
	Task Force on Program Costing and Cost Reduction	October 20, 1969
	Summary of Activities of the Thermochemical Test Area During Calendar Year 1969	Jan. 1970
	E & D Institutional Operations Computer and Analysis Support FY 1972	August 1971
	E & D Directorate 1970 - 1971 Test Highlights, Space Environment Test Division	November 1971
	Summary of Activities of the Thermochemical Test Area During Calendar Year 1971	Jan. 1, 1972
SubHeading:	Box Number: 17 *	
	Major Test Facilities of the Engineering and Development Directorate: Technical Brochure, MSC-03415 // * All 244 pages have been scanned.	Oct. 1970
SubHeading:	Box Number: 18	
	Exterior Area and Volume Coding, Supplement to General Specification, Operations Location Coding System for Crew Interfaces	April 10, 1972
	E & D Manpower Review: Presentation	1972
	Summary of Activities of the Thermochemical Test Area During Calendar Year 1972	Jan. 1, 1973
	Summary of Activities of the Thermochemical Test Area During Calendar Year 1973	Aug. 26, 1974
	DACS / Facility Implementation Plan Data and Control System	October 31, 1974
	E & D Manpower Review: Presentation	1974
	Preliminary Engineering and	Mar. 18, 1975

	Development Directorate Chemical and Mechanical Systems Manpower Review Benefiting Program Analyses	
	E & D Briefing on Manpower: Presentation Charts	Oct. 31, 1975
	Summary of Activities of the Thermochemical Test Area During the Period from January 1, 1974 Through June 30, 1975	Nov. 1975
SubHeading:	Box Number: 19	
	Engineering and Development Directorate Manpower Analysis POP 76-1C	Apr. 1, 1976
	Engineering and Development Directorate - Manpower Analysis Presentation Material of Review Held April 1, 1976	Apr. 5, 1976
	E & D Directorate OSF Support Services Contractors POP 76-2: Center Director's Review, Presentation Charts	Aug. 9, 1976
	E & D Engineer Grade Level Distribution Viewgraphs	1976
	E & D Budget Review: Presentation Charts	Feb. - Apr. 1977
SubHeading:	Box Number: 19 *	
	Summary of Activities of the Thermochemical Test Area During the Period from July 1, 1975 Through September 30, 1976 // * All 120 pages have been scanned.	ca. 1976
	Summary of Activities of the Thermochemical Test Area During FY 1977 // All 116 pages have been scanned.	ca. 1977
SubHeading:	Box Number: 20	
	Engineering and Development Directorate: 1977 Test Highlights	May 1978
	Engineering and Development Directorate Institutional Program Support Equipment Purchase FY 1979	Sept. 1978
	Engineering and Development Directorate: 1978 Test Highlights	Aug. 1979
	Engineering and Development Directorate: Preliminary Facilities and Test Highlights of 1979	Aug. 1980
	Engineering and Development Directorate: 1979 and 1980 Test Highlights	July 1981
	Engineering and Development Directorate: Brochures	1980-1981
	General Specification Controls, Manned Spacecraft and Related Flight Crew Equipment, Functional Design Requirements	1974 - 1975, 1982
	An Historical Overview of NASA Manned Spacecraft and their Crew Stations (Loftus)	n.d.
SubHeading:	Box Number: 20 *	
	E & D Facilities: Brochures // Six pages have been scanned	1977-1978
	Engineering Directorate Principal Test and Development Facilities // All 332 pages have been scanned.	November 1984
SubHeading:	Box Number: 21	
	Engineering Seminar, Vogt, Fred B., "The Study of Man in Space"	July 19, 1963

	Engineering Seminar, Dodson, Joe W., "Pyrotechnics"	July 22, 1963
	Engineering Seminar, Johnson, C. C. and L. T. Chauvin, "Apollo Design Integration"	August 7, 1963
	Engineering Seminar, Chamberlin, James A., "Project Gemini Design Integration"	August 7, 1963
	Engineering Seminar, Rector, W. F. and O. E. Maynard, "Lunar Excursion Module Design Integration"	August 8, 1963
	Engineering Seminar, Bland, William M. and Lewis R. Fisher, "Reliability Through Attention to Detail"	August 9, 1963
	Engineering Seminar, Hodge, John D., "Inflight Systems Monitoring"	August 22, 1963
	Engineering Seminar, Davis, Hubert P., "On Board Propulsion"	December 1963
	Engineering Seminar, Yodzis, Charles W., "Liquid Rockets"	January 4, 1964
	Engineering Seminar, Lee, John B., "Earth Landing Systems for Manned Spacecraft Systems Applications"	1964
	Engineering Seminar, Kiker, John W., "Spacecraft Landing Systems Design Criteria and Components"	1964
	Engineering Seminar, Mayer, John P., "Mission Analysis"	n.d.
	Engineering Seminar, Kraft, Christopher C., "Mission Planning and Philosophy"	n.d.
	Engineering Seminar, Preston, G. M., "Preflight Checkout and Preparation"	n.d.
	Engineering Seminar, Faber, Stanley and Harold I. Johnson, "Simulators and Training for Manned Spaceflight"	n.d.
SubHeading:	Box Number: 22	
	Engineering Seminar, Purser, Paul E., "Summary of Management, Design, and Operational Philosophy"	n.d.
	Engineering Seminar, Funk, Jack, "Mission Plan for Space Mission"	n.d.
	Engineering Seminar, Pohl, Henry O., "Reaction Control System for Manned Spacecraft"	n.d.
	Engineering Seminar, "Space Environment - Radiation and Meteoroids"	n.d.
	Engineering Seminar, Deans, Philip M., "Launch Escape System"	n.d.
	Engineering Seminar, Chambers, Thomas V., "Stabilization and Control Systems"	n.d.
	Engineering Seminar, Erb, Brian R., "Thermal Balance and Heat Protection of Manned Spacecraft"	n.d.
	Engineering Seminar, Ferguson, Richard B., "Electrical Power Systems"	n.d.
	Engineering Seminar, Eichmeier, Alfred E., "Airborne Instrumentation"	n.d.
	Engineering Seminar, Lambert, C. H., "Solid Rockets"	n.d.
SubHeading:	Box Number: 23	
	First Formal Briefing - Flight Acceleration Facility Study	August 23, 1962
	Flight Acceleration Facility	1964 - 1966

	Correspondence	
	Flight Acceleration Facility Correspondence	1966 - 1968, n.d.
	Flight Acceleration Facility, Analysis of Centrifuge Arm	January 1967
SubHeading:	Box Number: 24	
	Operational Readiness Inspections of CrewSystems Division Manned Altitude Chambers (Correspondence)	1966 - 1967, n.d.
	Crew Systems Laboratory - Operational Readiness Inspection Summary Report	November 12, 1965
	Report of 8' Chamber Accident on December 14, 1966 which Resulted in Loss of Suit Pressure	January 3, 1966
	Crew Systems Division - Systems Test Branch CY 1966 Facilities and Operations	December 1966
	Crew Systems Division - Systems Test Branch Altitude Chamber Facilities Standard Operating Procedures Manual (SOPM)	August 1, 1967
SubHeading:	Box Number: 25	
	Crew Systems Division - Systems Test Branch Altitude Chamber Facilities Training Manual	August 1967
	Crew Systems Division Quality Assurance Plan for the Operation of the CSD Test Facilities	August 21, 1967
	Crew Systems Division - Systems Test Branch Altitude Chamber Facilities Operational Readiness Inspection System Modifications	August 29, 1967
	Crew Systems Division - Systems Test Branch Altitude Chamber Facilities Operational Readiness Inspection Manned Test Facilities	August 29, 1967
	Crew Systems Division - Systems Test Branch Altitude Chamber Facilities Operational Readiness Inspection Agenda, Objective, Laboratory Description, and History	August 29, 1967
	Crew Systems Division - Systems Test Branch Altitude Chamber Facilities Operational Readiness Inspection Materials, Control, Program Status	August 1967
	Crew Systems Division - Systems Test Branch Altitude Chamber Facilities Operational Readiness Inspection Preparation Guidelines	August 1967
	Crew Systems Laboratory Operational Readiness Inspection Status Report to the Committee	November 15, 1967
	Crew Systems Division Quality Assurance for the Operation of the CSD Test Facilities	1967
	Crew Systems Division - Systems Test Branch Altitude Chamber Facilities Operational Readiness Inspection Briefing Materials	1967
SubHeading:	Box Number: 26	
	Engineering Directorate Correspondence (12 folders)	1962 - 1979, n.d.
SubHeading:	Box Number: 27	
	Engineering Drawing System Manual (2 vols.)	
SubHeading:	Box Number: 28	

SubHeading:

Manned Spacecraft Criteria and Standards

March 6, 1970

Manned Spacecraft Criteria and Standards Change 3

February 8, 1972

Manned Spacecraft Criteria and Standards Change 6

May 19, 1975

Box Number: 29

Manned Spacecraft Criteria and Standards Change 7

February 1, 1976

Manned Spacecraft Criteria and Standards Change 9

February 1, 1980