

NASA UNIFORM FILES INDEX

(NHB-1442.1A) NASA UNIFORM FILES
INDEX (NASA) 91 p

N94-70714

Unclas

Z9/82 0190959

2320.1 GMSR
GEN. MGMT. SYSTEMS REVIEW

1442.1 NASA
UNIFORM FILES



NASA UNIFORM FILES INDEX

PREFACE

This Handbook is a guide for the use of all personnel engaged in handling NASA files. It is issued in accordance with the regulations of the National Archives and Records Administration, in the Code of Federal Regulations Title 36, Part 1224, Files Management; and the Federal Information Resources Management Regulation, Subpart 201-45.108, Files Management.

It is intended to provide a standardized classification and filing scheme to achieve maximum uniformity and ease in maintaining and using agency records. It is a framework for consistent organization of information in an arrangement that will be useful to current and future researchers.

The NASA Uniform Files Index coding structure is composed of the subject classification table used for NASA management directives and the subject groups in the NASA scientific and technical information system. It is designed to correlate files throughout NASA and it is anticipated that it may be useful with automated filing systems.

It is expected that in the conversion of current files to this arrangement it will be necessary to add tertiary subjects and make further subdivisions under the existing categories. Established primary and secondary subject categories may not be changed arbitrarily. Proposals for additional subject categories of NASA-wide applicability, and suggestions for improvement in this handbook should be addressed to the Records Program Manager at the pertinent installation who will forward it to the NASA Records Management Office, Code NTR, for approval.

This Handbook is issued in loose-leaf form and will be revised by page changes.

NHB 1442.1, dated June 1985, is cancelled.



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Information Resources Management



TABLE OF CONTENTS

	<i>Page</i>
Introduction	iii
NASA Uniform Files Index	1
NASA Management Files	3
Primary Subject Identification Codes	3
Secondary Subject Identification Codes	4
Alphabetical Relative Index	11
NASA Scientific and Technical Information Files	51
Primary Subject Identification Codes	51
Secondary Subject Identification Codes	59
Alphabetical Relative Index	75



INTRODUCTION

NHB 1442.1A, NASA Uniform Files Index, is to be used to establish a standard pattern of files in NASA Offices. It can be used whether the control system is manually operated or computer based. A file is a collection of related records. Each record in a file is included because it pertains to the same agency business.

The arrangement can be used by any NASA office regardless of the size and volume of files. It is not necessary for offices to set up files in all subject categories. Only those subjects which reflect actual responsibilities should be selected for the office files outline.

Records provide the information essential to the agency's efficient and continued operation. The usefulness of recorded information is largely dependent upon the logical arrangement and file organization determines how the records will be retrieved.

Whether an office maintains a large volume of records or merely a few files, they should be kept in such a manner that persons can readily obtain them when needed. The records of an office must remain usable regardless of personnel or organizational changes. It is necessary, therefore that some deliberate plan ;be used for filing records so that a "finding key" to the information will be available and the file arrangement will be understandable to all persons who use the records. Use of the NASA Uniform Files Index will simplify the inevitable transfer of custodianship of the files to other employees.

Some current file categories that follow established patterns which have been adopted for agency use are: Contract Files/Procurement follow the Federal Acquisitions Regulations (FAR); Personnel (Human Resources) Files follow the Personnel Management Manual (PMM); and, Financial Management Files follow the Financial Management Manual (FMM).

STEPS TO FOLLOW:

1. The first step is to list current office files. Do not include old inactive files in this listing.
2. Compare this list to the NASA Uniform Files Index, number like files, and rearrange in numerical order at the earliest convenience.

It may be necessary to add subdivisions under existing categories. Subdivisions, such as the name of projects, contract numbers, and work categories are logical extensions and should be assigned arabic numerals. For example, 3451-- Incentive Awards, can be divided by making the following subdivision: 3451.1--Step Increases (Routine) and 3451.2--Quality Step Increases (QSI).

Selection of the file subject categories is based upon office functions. All incoming items are acted upon according to recognizable work subjects. If one can clearly distribute incoming mail in an orderly manner, the identical pattern in determining primary subject headings for files is applicable. Subdivisions are most useful when they show the natural categories under which incoming work is sorted for action (such as the preceding example). The primary subject should define incoming work according to the program. Secondary subjects define the work according to the action assignment.

3. Make a final listing of the files and their associated numbers to be used as a guide in locating and refiling records. Place this guide in a convenient location accessible to office personnel.

Filing, retrieval and refiling of records will become easier as familiarity with use of the index increases. There is a relative subject index located at the back of the handbook to help determine file categories.

4. Add any new files as required and periodically update the file listing.

REMEMBER . . .

WHERE YOU FILE IT IS

WHERE YOU FIND IT!

NASA UNIFORM FILES INDEX

SUBJECT NUMBERS

MAJOR SUBJECT GROUPS

1000-9999

I. MANAGEMENT FILES

1000-1999	ORGANIZATION AND ADMINISTRATIVE
2000-2999	LEGAL AND TECHNICAL
3000-3999	PERSONNEL
4000-4999	PROPERTY AND SUPPLY
5000-5999	INDUSTRY RELATIONS AND PROCUREMENT
6000-6999	TRANSPORTATION
7000-7999	PROGRAM FORMULATION
8000-8999	PROGRAM MANAGEMENT
9000-9899	FINANCIAL MANAGEMENT
9900-9999	AUDITS AND INVESTIGATIONS

01-99

II. SCIENTIFIC AND TECHNICAL INFORMATION FILES

01-	AERONAUTICS
12-	ASTRONAUTICS
23-	CHEMISTRY AND MATERIALS
31-	ENGINEERING
42-	GEOSCIENCES
51-	LIFE SCIENCES
59-	MATHEMATICAL AND COMPUTER SCIENCES
70-	PHYSICS
80-	SOCIAL SCIENCES
88-	SPACE SCIENCES
99-	GENERAL



FILE TYPE DESCRIPTIONS BY MAJOR SUBJECT

1000 - 1999 ORGANIZATION AND ADMINISTRATIVE

General office files; suspense files; requisitions for supplies; routine correspondence; transitory files; organization charts; finding and reference aids; public affairs; international activities; forms; standards of conduct; report controls; feasibility studies; privacy act; FOIA; safety; health; postal services.

2000 - 2999 LEGAL AND TECHNICAL

Legal matters; court decisions; technology utilization; scientific and technical documentation; management information systems; automatic data processing (ADP); communications; photographic equipment, services, and supplies.

3000 - 3999 PERSONNEL

Employment paperwork/records; counseling; performance; time and attendance; insurance and annuities; position classification (PD); pay and allowances; retirement; training (career development); awards; grievance; injury; charity drives; contributions; savings bond; Official Personnel Folder; civilian and military; examinations; recruitment; and human resources management.

4000 - 4999 PROPERTY AND SUPPLY

Excess; surplus; inventory; requisitions; requirements; equipment accountability (NEMS); real; use and replacement; utilization and disposal; storage; receiving and inspection; distribution; and supply management.

5000 - 5999 INDUSTRY RELATIONS AND PROCUREMENT

Small and Disadvantaged business information; procurement, related documents and actions; bids and proposals; contract management; labor relations; patents; statements-of-work; grants; inventions and contributions; taxes; purchase orders; bonds; reliability and quality assurance; clauses; termination of contracts; copyrights; and contract management procedures.

6000 - 6999 TRANSPORTATION

Commerical freight services; traffic management; transportation of cargo; preparation and handling of cargo; airlift service; NASA aircraft; motor vehicle operation/management.

7000 - 7999 PROGRAM FORMULATION

Agency goals and objectives; long-range planning; research and development project planning/approval; institutional planning/approval; program operating plans; resources authority; and human resources utilization.

8000 - 8999 PROGRAM MANAGEMENT

Major flight and development; advanced studies; supporting research and technology; grants and research contracts; tracking and data acquisition; program support services; mission reports; real property and facilities for program; program medical support; safety and health applications (OSHA); and program and project operations.

9000 - 9899 FINANCIAL MANAGEMENT

General principles and policies; agencywide coding structure; accounting; installation financial reports; fiscal operations; NASA travel; payroll; treasury; claims; vouchers; travel advances-authorizations; user charges; revenue accounting, budget policy files.

9900 - 9999 AUDITS AND INVESTIGATIONS -- INSPECTOR GENERAL

Audits; policies and procedures; relationship with GAO; and investigations (IG).



NASA MANAGEMENT FILES SECONDARY SUBJECT IDENTIFICATION CODES

ORGANIZATION AND GENERAL ADMINISTRATION 1000-1999

1000	GENERAL	1000
	Agency Establishment	1010
	Legislative Authority	1011
	Executive Authority	1012
	The NASA Seal and Other Devices, and the Congressional Space Medal Honor.	1020
	Names, Symbols	1022
	Honors and Ceremonies	1030
	Emergency Planning & Mobilization Role	1040
	Civil Defense	1041
	Emergency Warden Organization	1042
	Fallout and Fallout Shelter	1043
	Casualty Reporting	1044
	Mobilization Readiness	1046
	Agreements (general)	1050
	Foreign Governments	1054
	Non-Government	1056
	Intra-Agency Agreements	1058
	Consultants	1060
	History Program	1070
1100	ORGANIZATION	1100
	NASA Organization and Definition of Terms	1101
	HQ Program Office Organization	1102
	HQ Staff Office Organization	1103
	Field Installation Organization	1107
	General Organization Responsibilities	1120
	General Operating Relationships	1130
	Committees, Boards, Councils, Panels	1150
	Intra-Agency	1152
	Interagency	1154
	Advisory Committees	1156
	Special Lines of Succession	1160
	Delegation of Authority to Act for the Administrator	1162
	Inventions and Contributions Board ..	1170
	NASA Board of Contract Appeals	1180
1200	BASIC OPERATING & MANAGEMENT CONCEPTS	1200
	Fundamental Principles	1210
	Work Management	1216
	Role of General Management	1220
	Program Management	1230
	Functional Management	1240
	Institutional Management	1250
	Budget Management	1260
	Productivity and Quality Enhancement.	1270
1300	EXTERNAL RELATIONSHIPS	1300
	Escort Services	1305
	Legislative Branch	1310
	Congress	1311
	General Accounting Office (GAO)	1312
	Government Printing Office (GPO)	1313
	Library of Congress	1314
	Judicial Branch	1315
	Supreme Court of the United States ..	1316
	Executive Branch	1320
	Office of the White House	1322
	Office of Management & Budget (OMB).	1323
	Executive Agencies/Departments	1325
	Department of Defense	1328
	Independent Establishments and Government Corporations	1330

1300 Continued:

State and Local Government	1340
Nongovernmental Organizations	1350
University Affairs	1355
General NASA University Policy and Relationships	1356
Unsolicited Proposals from Universities	1357
Functional Management of University Programs	1358
University R&D Support	1359
International Affairs	1360
Cooperative Projects	1362
International Organizations	1365
Support of Overseas Operations	1367
Foreign Visits and Visitors	1370
NASA Travel Abroad	1373
International Fellowships	1374
Resident Research Associateships ..	1376
Training of Foreign Nationals	1378
Public Affairs	1380
Release of Information	1382
Audio Visual News Material	1383
Public Appearances	1384
Speeches and Speakers	1385
Exhibits	1387
Conferences	1389
Educational Programs	1392
Educational Services	1394
Foreign Government Awards	1395

1400

ADMINISTRATIVE MANAGEMENT PROGRAMS ...	1400
Management Directives	1410
Office of the Federal Register	1412
Reports Management	1415
Forms Management	1420
Visual Aids Management	1430
Records Management	1440
Records Disposition	1441
Files Maintenance	1442
Correspondence Management	1450
Executive Instructions on Correspondence	1451
Cost Reduction	1460
Management Improvement	1470
Work Measurement & Simplification ..	1472
Publications Management	1480
Printing	1490

1500

ADMINISTRATIVE SERVICES	1500
Graphics	1520
Visual Aids	1521
Postal Affairs (Mail Management)	1530
Building and Grounds Management	1540
Transportation and Parking Services.	1541
Conference Rooms and Auditoriums ...	1542
General Office Services	1550
Internal Mail and Messenger	1551
Clerical and Stenographic	1552
Moving and Labor	1553
Office Supplies	1570
Office Equipment and Furnishings ...	1571
Local Telephone Communications	1580
Miscellaneous Administrative Matters.	1590

1600	SECURITY	1600	2100	TECHNOLOGY UTILIZATION	2100
	Personnel Security	1610		Programs and Policies	2110
	Physical Security	1620		Flash Sheets	2120
	Control of Classified Information ...	1630		Appraisal and Evaluationg	2121
	Security Classification	1640		Tech Briefs	2130
	Industrial Security	1650		Tech Briefs Distribution	2131
	Security Education	1670		Patent Statements	2140
	Visitors and Foreign Travel Control .	1680		Reporting Industrial Applications ...	2150
	Security Surveys	1690		Information and Applications Centers.	2160
1700	SAFETY	1700		Contractors New Technology	
	Basic Policy	1701		Management	2170
	NASA Safety/Accident Prevention			Technology Transfer	2180
	Program	1710		Export Control	2190
	Accident Reporting & Investigation .	1711	2200	SCIENTIFIC AND TECHNICAL INFORMATION .	2200
	Injury Reporting	1712		STI Data Bases	2210
	Explosive Safety	1720		Publications Program	2220
	Protective Clothing and Equipment ...	1730		Library Program	2240
	Safety Standards	1740		ARIN (Aerospace Research Information	
1800	OCCUPATIONAL MEDICINE	1800		Network)	2242
	Professional Medical Services	1810		Exchange Program	2250
	Medicines	1812		Domestic Exchanges	2252
	Clinical Facilities	1814		International Exchanges	2254
	Narcotics and Drugs	1815		User Services	2260
	Preventive Medicine	1820		Announcement/Current Awareness	2262
	Physical Fitness	1830		Document Delivery	2264
	Industrial Hygiene	1840		RECON (Remote Console)	2266
	Health Standards	1845		Translations	2268
	Toxicology	1850		Document Operations	2270
	Advisory Center on Toxicology	1852		Abstracting/Indexing	2272
	Radiological Health	1860		Distribution/Availability	2274
	Environmental Sanitation	1870		Thesaurus	2276
	Entomology	1880		Specifications and Standards	2280
	Disaster Medical Planning	1890		Program Office Projects	2290
1900	STANDARDS OF CONDUCT	1900	2300	MANAGEMENT INFORMATION SYSTEMS	2300
				General Policies and Procedures	2305
				Information Resources Management-IRM.	2310
				Documentation Management Systems ...	2314
				Management Presentations and Reviews.	2320
				Planning and Scheduling Systems	2330
				NASA PERT and Companion Cost	2332
				Line of Balance	2334
				Milestone Systems	2336
				Project Status Reporting	2340
			2400	AUTOMATIC DATA PROCESSING	2400
				ADP Management Policies & Procedures.	2410
				Computer Program Documentation	2415
				Data Reduction and Interpretation ...	2420
				Equipment Utilization and Control ...	2430
				Data Display	2440
				Personnel Management	2450
			2500	COMMUNICATIONS	2500
				General	2510
				NASA Communications System	2520
				Telecommunications and Messages	2530
				Administrative Communications	2540
				Cryptography	2550
				Radio Frequency Management	2570
			2600	PHOTOGRAPHIC EQUIPMENT AND SERVICES ..	2600
				Camera Supplies and Attachments	2610
				Photographic Instrumentation	2620
				Photography Services	2630
				Projectors and Operator Services	2640
2000	LAWS AND LEGAL MATTERS	2000			
	Law	2010			
	Civil Law	2011			
	Criminal Law	2012			
	Administrative Law	2013			
	Procedural Law	2014			
	Federal Law	2015			
	State Law	2016			
	Foreign Law	2017			
	International Law	2018			
	Statute Law	2019			
	Case Law	2020			
	Legal Assistance	2030			
	Taxes, Customs, and Duties	2040			
	Courts, Boards, and Arbitration	2050			
	Codifications and Citations	2060			
	Interpretations	2070			
	Claims	2080			
	Tort Claims	2082			
	Contract Claims	2084			
	Civil Rights	2090			

PERSONNEL
(Human Resources)
3000-3999

3000	GENERAL	3000	3400	EMPLOYEE PERFORMANCE AND UTILIZATION .	3400
3100	EXECUTIVE HUMAN RESOURCES MANAGEMENT (SES, Senior Executive Service)	3100		Employee Development (Training)	3410
3200	GENERAL PERSONNEL PROVISIONS	3200		Performance Evaluation (Appraisals) .	3430
	Basic Concepts and Definitions	3210		Employee Recognition and Incentives .	3450
	Veteran's Preference	3211		Incentive Awards	3451
	Competitive Service & Competitive Status	3212		Suggestion System	3452
	Excepted Service	3213	3500	POSITION CLASSIFICATION, PAY, AND ALLOWANCES	3500
	Organization of the Government for Personnel Management	3230		Position Classification & Job Evaluation	3510
	Personnel Management in Agencies	3250		Position classification under the Classification Act System	3511
	Direction & Control of the Personnel Program	3270		Job Evaluation under Prevailing Rate Systems	3512
	Developing Policies, Procedures, Program, and Standards	3271		Employee Classification Appeals	3513
	Personnel Policy Formulation and Personnel Issuances	3272		Classification--Excepted Positions .	3515
	Inspections, Surveys and Audits	3273		Pay Rates and Systems (General)	3530
	Corrective Actions	3274		Pay under the Classification Act System	3531
	Evaluation of Personnel Programs	3275		Pay under Prevailing Rate System ...	3532
	Military Personnel	3280		Pay under Other Systems	3534
	Personnel Records and Processing	3290		Conversions between Pay Systems	3539
	Personnel Reports	3291		Pay Administration (General)	3550
	Development of Personnel Statistics.	3292		Travel and Transportation for Recruitment	3571
	Personnel Records and Files	3293		Allowances and Differentials	3590
	Release of Personnel Information ...	3294		Allowances and Differentials Payable in Non-Foreign Areas	3591
	Personnel Forms and Documents	3295		Overseas Allowances and Post Differentials	3592
	Processing Personnel Actions	3296		Subsistence, Quarters, and Laundry ..	3593
				Allowances for Uniforms	3594
3300	EMPLOYMENT (general)	3300	3600	TIME AND ATTENDANCE	3600
	Overseas Employment	3301		Hours of duty	3610
	Employment in the Excepted Services .	3302		Absence and Leave	3630
	Military Service Obligation & Draft Deferment	3303	3700	PERSONNEL RELATIONS AND SERVICES	3700
	Employment of Experts & Consultants .	3304		Personnel Relations	3710
	Dual Employment & Dual Compensation .	3305		Employee-Management Relations	3711
	Personal Service Contracts	3306		Employee-Organizations & Activities.	3712
	Detailees	3307		Nondiscrimination	3713
	Authority for & Tenure of Employment.	3310		Nondisciplinary Separations, Demotions, and Furloughs	3715
	Power of Appointment and Removal	3311		Suitability and Conduct	3730
	Position Control	3312		Suitability	3731
	Career & Career-Conditional Employment	3315		Political Activities of Federal Employees	3733
	Temporary & Indefinite Employment ...	3316		Holding State or Local Office	3734
	Recruitment, Selection, & Placement..	3330		Employee Responsibilities & Conduct.	3735
	Organization for Recruitment & Examining	3331		Employee Investigations	3736
	Recruitment and Selection through Competitive Examination	3332		Discipline and Adverse Actions	3750
	Recruitment and Selection for Temporary and Term Appointment Outside the Register	3333		Discipline	3751
	Personnel Mobility Agreements Under Title IV of the IPA of 1970	3334		Adverse Actions	3752
	Promotion and Internal Placement ...	3335		Remedies	3770
	Examining System	3337		Employee Grievances & Administrative Appeal	3771
	Qualification Requirements--General.	3338		Appeals to the Commission	3772
	Qualification Requirements--Medical.	3339		Services to Employees (General)	3790
	Transfers	3340		Alcoholism Program	3792
	Job Retention	3350			
	Reduction in Force	3351			
	Reemployment Rights	3352			
	Restoration after Military Duty	3353			

PROCUREMENT CONTINUED:

	Extraordinary Contractual Actions ...	5150
	Use of Government Sources by Contractors	5151
	Solicitation Provisions and Contract Clauses	5152
	Contract Forms	5153
5200	CONTRACTOR LABOR RELATIONS	5200
	Labor Relations Boards	5210
	Disputes, Strikes, & Work Stoppages ..	5220
5300	RELIABILITY AND QUALITY ASSURANCE	5300
	General Provisions	5310
	NASA-DOD Relationships	5311
	Reliability Policies and Programs ...	5320
	Quality Policies and Programs	5330
	Contamination Control	5340
5400	CONTRACTOR-HELD GOVERNMENT PROPERTY ..	5400
5500	PATENT WAIVER	5500
5600	STATEMENT OF WORK	5600
	Work Breakdown Structures	5610
5700	AWARDS, INVENTIONS & CONTRIBUTIONS BOARD	5700
5800	GRANTS	5800
5900	PROVISIONING	5900

**TRANSPORTATION
6000-6900**

6000	GENERAL	6000
	Definition of Terms	6010
	Transportation Officers	6020
	Appointment and Responsibilities ...	6022
	Transportation Planning	6030
	Relationships with Other Government Agencies	6040
	Participation before Regulatory Agencies	6041
	Transportation Publications, Records, and Reports	6050
	Preparation of Government Bills of Lading	6051
6100	COMMERCIAL FREIGHT SERVICES	6100
	Freight Rates, Charges, & Classification	6110
	Freight Traffic Negotiations	6120
	Carrier and Mode Selection	6130
	Accessorial Transportation Services ..	6140
6200	TRAFFIC MANAGEMENT PROGRAMS	6200
	Procurement Traffic Management	6210
	Loss and Damage in Transit	6220

6300	TRANSPORTATION OF UNUSUAL OR HAZARDOUS CARGO	6300
	Export Traffic	6310
	Import Traffic	6320
	Explosives and Other Dangerous Articles	6330
	Oversize and Overweight Cargo	6340
	Classified Cargo	6350
6400	PREPARATION AND HANDLING OF CARGO	6400
	Preservation, Packaging, and Packing Supplies and Equipment	6410
	Loading, Blocking and Bracing	6420
	Operation & Maintenance of Materials Handling Equipment	6430
6500	SPECIAL AIRLIFT SERVICES	6500
6600	TRANSPORTABILITY & TRANSPORT ENGINEERING	6600
	Movement of Large Launch Vehicles ...	6610
	NASA Transportability	6620
6700	MOTOR VEHICLE OPERATION AND MANAGEMENT	6700
	NASA Motor Vehicle Program	6710
	Vehicle Authorization & Acquisitions ..	6720
	Vehicle Operations and Control	6730
	Vehicle Maintenance and Motor Pools ..	6740
	Vehicle Accidents	6750
	Lost, Damaged, & Destroyed Vehicles ..	6752
	Vehicle Marking and Identification ..	6760
	Leased and Rented Vehicles	6770
	Automotive Equipment	6780
6800	PASSENGER TRANSPORTATION	6800
	Local Passenger Service	6810

**PROGRAM FORMULATION
7000-7999**

7000	GENERAL	7000
	Agency Program Goals & Objectives ...	7010
	Long-Range Planning	7020
	Intermediate-Range Planning	7030
	Program Planning and Review	7040
	Low Cost Systems Program	7050
7100	RESEARCH AND DEVELOPMENT PLANNING AND APPROVAL	7100
	Advanced Studies Planning & Approval ..	7110
	Project Planning and Approval	7120
	Phased Project Planning & Approval ..	7121
	Other Project Planning & Approval ..	7122
	Supporting Research and Technology Planning and Approval	7130
	University Program	7140
	Project Scheduling & Implementation ..	7150
	Project Termination	7160
	Human Research	7170

7200	INSTITUTIONAL PLANNING AND APPROVAL .. 7200	7900	AIRCRAFT OPERATIONS AND MANAGEMENT ... 7900
	Establishment of Agency Institutional Goals and Objectives 7210		Aircraft Operations Management 7910
	Establishment of Installation Institutional Goals and Objectives . 7220		Administrative Aircraft Management .. 7920
	Institutional Planning--		
	Center Development 7230		PROGRAM MANAGEMENT
	Human Resources Planning and Plans . 7231		8000-8900
	Facility Master Planning and Plans . 7232	8000	GENERAL 8000
	Installation Technical Capability Planning and Plans 7233		Major Flight and Development 8005
	Installation Institutional Capability Planning and Plans 7234		General 8010
	Site Selection 7235		Program Control 8020
7300	FACILITY PLANNING AND APPROVAL 7300		Flight Experiments and Tasks 8030
	Facility Requirements Determination . 7310		Configuration Control 8040
	Facility Design Standards, Criteria, and Procedures 7320		Systems Integration and Checkout .. 8050
	Facility Project Planning & Approval (C of F) 7330		Systems Design 8060
	Industrial Facilities Planning and Approval 7340		Standards and Specifications 8070
7400	BUDGET FORMULATION AND EXECUTION 7400		Tests and Testing 8080
	General 7410	8100	ADVANCED STUDIES 8100
	Preliminary Budget (Budget Review) .. 7420		General 8110
	Budget Call (Instructions and Guidelines) 7421		Conduct of Studies 8120
	Preparation and Submission of Estimates 7422		Study Reports 8130
	Headquarters Review & Approval 7423		In-House Reports 8132
	Formulation of Annual Appropriation and Authorization Languages 7430		Contractor Study Reports 8134
	President's Budget 7440	8200	SUPPORTING RESEARCH AND TECHNOLOGY ... 8200
	Budget Call 7441		General 8210
	Preparation and Submission of Estimates 7442		Conduct of SRT 8220
	Headquarters Review and Approval ... 7443		Coordination and Dissemination 8230
	External Agency Review & Approval .. 7444	8300	GRANTS AND RESEARCH CONTRACTS 8300
	Congressional Budget 7450		General 8310
	Budget Call 7451		University Program 8320
	Preparation & Submission of Material Headquarters Review and Approval ... 7453		Evaluation of Proposals 8330
	Preparation and Submission of Congressional Budget 7454		Termination 8340
	Conduct of NASA Participation in Congressional Hearings 7460	8400	TRACKING AND DATA ACQUISITION 8400
7500	COMMERCIALIZATION 7500		General 8410
7600	PROGRAM OPERATING PLANS 7600		Network Assignment and Management ... 8420
	General Policies and Procedures 7610		Network Planning and Coordination ... 8430
	Research and Program Management 7620	8500	SUPPORT SERVICES 8500
	Research and Development 7630	8600	OPERATIONS 8600
	Construction of Facilities 7640		General 8610
7700	HUMAN RESOURCES UTILIZATION 7700		Mission Reports 8620
	General 7710		Mission Failure Investigations and Reports 8621
	Determination of Human Resources Requirements 7720		Launch Operations 8630
	Personnel Complement Ceilings and Controls 7730		Launch Scheduling 8631
	Human Resources Utilization Program and Reports 7740		Launch Dates 8632
7800	RESOURCES AUTHORITY ALLOCATION SYSTEM 7800		Launch Testing 8635
	General 7810		Flight Operations 8640
	Research and Program Management 7820		Astronauts 8650
	Research and Development 7830		Payload Specialists 8651
	Construction of Facilities 7840		Range Integration and Support 8660
			Weather 8670
		8700	STANDARDS 8700
			Safety and Health Standards Systems . 8710
			Occupational Safety and Health Program Application (OSHA) 8720

8800 REAL PROPERTY AND FACILITIES 8800
 Land and Improvements 8810
 Acquisition 8811
 Utilization and Management 8812
 Transfer of Disposal 8813
 Housing and Personnel Quarters 8814
 Construction of Facilities 8820
 General 8821
 Criteria and Standards 8822
 Design and Engineering 8823
 Cost Estimation 8824
 Inspection, Supervision, &
 Acceptance 8825
 Major Construction 8826
 Minor Construction 8827
 Alterations and Repairs 8828
 Maintenance, Repair, and Operation of
 Facilities 8830
 General 8831
 Criteria and Standards 8832
 Inspections 8833
 Structure and Equipment 8834
 Grounds and Appurtenances 8835
 Utility Systems 8836
 Refuse Collection and Disposal 8837
 Fire Protection and Fire Fighting 8838
 Plant Support Services 8839
 Logistics 8850

8900 PROGRAM MEDICAL SUPPORT 8900

FINANCIAL MANAGEMENT
 9000-9900

9000 PRINCIPLES AND GENERAL POLICIES 9000
 Introduction to the NASA Financial
 Management Manual 9001
 Definitions of Financial Management
 Terms 9020
 Criteria for Recording and Reporting
 Commitments 9030
 Criteria for Recording and Reporting
 Obligations 9040
 Cash Management 9050
 Accrual Accounting 9060
 User Charges and Rental Charges 9080
 Guidelines Applicable to Reimbursable
 Agreements 9090

9100 AGENCYWIDE CODING STRUCTURE (AWCS) ... 9100
 General 9101
 Reimbursable Agreement Number System 9110
 Coding Structure 9120
 The AWCS Automated System or,
 (UPN, Unique Project Number) 9130

9200 ACCOUNTING 9200
 Accounting, Principles 9210
 General Ledger Accounting 9220
 Allotment Accounting 9230
 Cost Accounting 9240
 Property Accounting 9250
 Revenue Accounting 9260
 Miscellaneous Accounting 9280

9300 FINANCIAL REPORTS 9300
 General 9301
 Agency Reports 9310
 Installation Program Reports 9320
 Installation Fiscal Activity Reports 9340
 Installation Functional Reports 9350
 Installation Civilian Pay Reports ... 9360
 Installation Miscellaneous Reports .. 9380
 Installation Fiscal Year-End
 Accounting & Reporting Requirements 9390

9400 RESERVED

9500 RESERVED

9600 FISCAL OPERATIONS 9600
 Payroll, Leave and Allowances 9620
 Voucher Examination and Payment 9630
 Claims 9640
 Erroneous Payment of Salaries
 and Wages 9645
 Treasury/NASA Transactions and
 Relationships 9650
 Vital Records and Emergency
 Transactions 9660
 Payment for Transportation Services
 Procured through the Department of
 Defense 9670

9700 NASA TRAVEL REGULATIONS 9700
 General Provisions 9710
 Travel Requests and Authorizations .. 9720
 Transportation and Related Expenses . 9730
 Temporary Duty Travel 9740
 Actual Expense Travel 9750
 Change of Assignment to Permanent
 Duty Station 9760
 Evacuation & Adverse Conditions
 Travel 9770
 Allowable Expenses Connected with
 the Death of Employees and Deceased
 Dependents 9780
 Advances and Reimbursement Claims
 for Travel, Transportation, and
 Miscellaneous Expenses 9790

AUDITS AND INVESTIGATIONS
 9900-9999

9900 GENERAL (AUDITS AND INVESTIGATIONS) .. 9900
 Audit Policies and Procedures 9910
 Relationship with GAO 9920
 Investigations Policies and
 Procedures 9950

1000

1000

1000



1000

1000

1000



1000

1000



NASA MANAGEMENT FILES ALPHABETICAL RELATIVE INDEX

	Index No.	NRS No.		Index No.	NRS No.
***** A *****					
ABSENCE	3630		ADMINISTRATIVE CONTINUED:		
... ALSO SEE "Personnel" ...			Forms	1420	
ACCIDENTS			Management Improvement	1470	
Casualty Reports	1711		Management Programs	1400	
Compensation, Work-Related			Organization	1100	
Injuries:	3810		Publications	1480	
Definitions			Records Management	1440	
Policies			Reports Control	1415	
Reporting Requirements			Administrative Services	1500	
Responsibilities			ADMINISTRATOR		
Mission Failure Investigation	8621		Authority to Act for	1162	
Motor Vehicle, Report	6750		Flag, Official	1020	
Operations, Investigations/ Documentation	8621		Fund	9050	
Personnel	3000		Lines of Succession	1162	
Prevention Program	1710		RESPONSIBILITIES:		
Program Management	8000		Accident/Mission Failure	8621	
Release of Information, To the Public	1382		Aerospace Safety Advisory Panel ..	1156	
Policy on			ADMINISTRATOR, ASSOCIATE DEPUTY		
Procedures for			RESPONSIBILITIES:		
Responsibilities			Federal Register Documentation ...	1412	
Safety	1700		Freedom of Information Act	1382	
Vehicles Rented by NASA Travelers, Claims for:	9730		Personnel Training in Foreign Countries by Foreign Institutions	3410	
Disposition of			Privacy Act of 1974	1382	
NASA Liability, Limitations of			Role and Responsibilities	1103	
Processing, Procedures for			ADMINISTRATOR, DEPUTY		
Travelers, Responsibilities			Flag Official	1020	
Accountable Officer's Returns	9000		Lines of Succession	1162	
ACCOUNTABILITY			RESPONSIBILITIES:		
Classified Document	1600		Accident/Mission Failure	8621	
Keys, Security and Protective	1610		Aerospace Safety Advisory Panel ..	1156	
Personal Property, Files	1620		Administrator's Fund	9050	
Property (Physical/Equipment)	4210		ADP (Automatic Data Processing)	2400	
Transportation and Travel	9700		Advance Waiver Review Panel	1152	
ACCOUNTING			Advanced Research and Technology	7100	
Accountable Officers' Returns	9000		Advanced Studies	8100	
Accounting	9200		Adverse Actions	3752	
Accrual	9060		Advertising, Paid	1102	
Allotment	9230		Advisory Council	1156	
Availability of Funds	9200		Advisory Groups	1156	
Collection of Funds	9600		... ALSO SEE "Committees" ...		
Correspondence	9200		Aerial Film	7100	
Cost	9240		... ALSO SEE "Cartography" ...		
General Ledger	9220		Aeronautics Advisory Committee	1156	
Leave	3630		AERONAUTICS AND SPACE PROGRAMS		
Miscellaneous	9280		Inspection, Provisions For	5300	
Property	9250		International Participation	1362	
Revenue	9260		Development of		
Standards	5131		Initiation of		
... ALSO SEE "Financial Management" ...			Objectives of		
ACCOUNTS			Proposals for		
Accounts, General	9000		ADMINISTRATIVE		
Posting and Control	9000		Aircraft, Operations Manual	7920	
Address Codes, FEDSTRIP and MILSTRIP, Coordination of	4050		Committees, Boards, Panels	1150	
ADMINISTRATIVE			... ALSO SEE "COMMITTEES" ...		
Aircraft, Operations Manual	7920		Intra-Agency	1152	
Committees, Boards, Panels	1150		Interagency	1154	
... ALSO SEE "COMMITTEES" ...			Advisory	1156	
Intra-Agency	1152		Directives	1410	
Interagency	1154				
Advisory	1156				
Directives	1410				

	Index No.	NRS No.		Index No.	NRS No.
AERONAUTICS AND SPACE TECHNOLOGY - OFFICE OF			Alert Reporting System	5310	
Associate Administrator:			GIDEP Notification		
Authority to Act for	1102		Reporting Requirements/Procedures		
Lines of Succession	1102		Responsibility for		
Committee	1152		Aliens	1610	
RESPONSIBILITIES:			... ALSO SEE "Security" ...		
Accident/Mission Failure	8621		Allowances (Personnel Related)	3500	
GIDEP Utilization	5310		... ALSO SEE "Financial Management" ...		
Program Planning	1102		AMERICAN	1710	
Organization and Responsibilities ..	1102		National Standards Institute (ANSI)		
Scientific & Technical Information,			Petroleum Institute (API)		
Presentation/Publication	2220		Society for Testing and Materials (ASTM)		
Aeronautics, Proposals for			Society of Mechanical Engineers (ASME)		
Outside Investigations	8030		AMES RESEARCH CENTER (ARC)	1107	
Aerospace Safety Advisory Panel	1156		... ALSO SEE "Field Installations" ...		
Affirmative Action Plans	3700		Ammunition Storage	1620	
AGENCY			ANNOUNCEMENT OF OPPORTUNITY (AO)		
PROGRAMS:	7000		Guidelines/Acquisitions of		
Authorization and Control			Investigations	8030	
Elements of			Space Science Experiments	7100	
Implementation of			Annual Leave	3630	
Objectives of			Annual Obligation Reports,		
Policy			Certification of	9000	
RESOURCES:			Annuities	3800	
Allocation and Control	7000		... ALSO SEE "Personnel" ...		
Internal Control System	1200		ANSI (American National Standards		
Agencywide Code Structure	9100		Institute)	1710	
Agriculture, Extraterrestrial			API (American Petroleum Institute)	1710	
Exposure, Quarantine	8020		Appointing Officers	3311	
AIM (Automated Information Management			Appropriations	9100	
Council)	1154		... ALSO SEE "Financial Management" ...		
Air Force (STS Protection)	8610		ARMY (Corps of Engineers)	8811	
... ALSO SEE "Defense, Department of"			Leases, Real Property	8812	
AIRCRAFT	7900		Services For, Leaseholds, Permits,		
ADMINISTRATIVE:	7920		and Licenses	8813	
Coordination/Scheduling			... ALSO SEE "Defense" ...		
Flight Approval			ARTIFACTS		
Operation of			Committee	4310	
Operations Manual			Identification and Disposition of ..	4310	
Policy on			ASTRONAUTS	8650	
Responsibility for			Accidents/Release of Information ...	1382	
Airworthiness	7910		Badges	1020	
Commercial	1620		Congressional Space Medal of Honor -		
Headquarters	7920		Procedures for Nominating	1020	
Management	7910		Disease & Injury Exposure Control ..	8900	
Mission Classification	7910		Medical/Dental Care Program	8900	
NASA Controlled:			Official Flight Kits	1900	
Definition of	7910		Payload Specialist	8651	
Delegation of Authority	7900		Personal Preference Kits	1900	
OPERATIONS GUIDELINES:	7910		Public Appearances By	1384	
Flight Crews			Policy on, Responsibility for &		
General Policy			Scheduling of	8610	
Safety			Recruitment and Selection	3330	
NASA Intercenter Operations Panel ..	1152				
Operations and Management	7900				
Operations Manual	7900				
Standardization Review Board	1152				
Wallops Station Airstrip Utilization	6000				
Airstrip					
(Wallops Station Utilization of) ...	6000				
Alcohol Abuse Program	3792				
History					
Policy					
Program Components					
Responsibilities					

	Index NRS No. No.		Index NRS No. No.
Astrophysics Program	1102	AUDITING	
Attendance (and Leave)	3630	Audits and Investigations	9900
... ALSO SEE "Personnel" ...		AUDIT PROGRAM:	9910
AUDIOVISUAL:		Audited Organizations;	
GRAPHIC ARTS	1520	Closure Recommendations;	
Consisting of:		Contractors/Grantees Audits;	
Artwork--Flyers, Letterhead,		Definitions;	
Posters, Outstanding Original(s),		Internal Audit Procedures/Resolution;	
Line Copies, Charts, Graphs,		NASA Management;	
Photo-mechanical Reproduction		Office of Inspector General;	
Viewgraphs	1521	Resolution	
MOTION PICTURES:		General Accounting Office (GAO)	1325
SOUND RECORDINGS:		Manned Space Flight Related:	
STILL PHOTOGRAPHY:		Procedures for	9920
VIDEO RECORDINGS:		Responsibility for	9920
Agency Activities	1000	Policies and Procedures	9910
Appearances (Media)	1386	Relationship with GAO	1325, 9920
Awards Presentations	1030	Automated Information Management (AIM)	
Ceremonial	1030	Council	1154
Conferences (Public)	1389	AUTOMATIC DATA PROCESSING (ADP)	
Contracts	5100	Automatic Data Processing (General).	2400
Educational Services (Public)	1392	Information Management Council	1154
Engineering	8000	Information Processing	2410
Equipment and Services	2600	Intercenter Committee on	1152
Filmstrips (Internal Training) ...	3400	Management Polices and Procedures ..	2410
Graphic Presentations, Guidelines.	1430	(Resource Management; Security	
Grants (Grant Produced)	5800	Assurance)	
Hearings	1322	Automatic Downgrading & Declassifying .	1640
Internal Management (Institutional)	1250	Automobiles	6700
Management Instruction	1410	... ALSO SEE "Motor Vehicle" ...	
Media Production	1380	AVIATION SAFETY	
Medical, Occupational	1800	NASA Aircraft Operations	7910
Meetings	1389	Reporting System	1156
Motion Picture Production	1394	AWARDS	
News Releases/Recordings	1383	Career Service Recognition	3451
Oral History Collections	1070	Cash Awards	3451
Passports (Pictures)	1680	Congressional Space Medal	1020
Personnel Identification (Badges).	1620	Distinguished Public Service Medal .	3451
Photographic Services	2630	Equal Employment Opportunity Trophy	
Policy (Agency Programs)	1200	External	
Products	1380	Foreign, Acceptance of	1030
Public Service Announcements	1380, 1382	Honor	3451
Radio Programs	1380, 2500	Incentive	3451
Production of	1394	Inspector General/Presidential	
Recruiting	3330	Merit System Cash	
Research and Development	7100	Military Personnel	3280
Scientific	2200	NASA Honor Awards	3451
Scientific Medical	8900	Presidential Recognition Program ...	3451
Scripts	1385	Scientific & Technical Contributions	5700
Slides (Internal Training)	3400	Special Achievement Awards	3451
Speeches	1385	Suggestion Award	3451
Surveillance	1600	-----	-----
Television	1394	***** B *****	
Testimony (Congress)	1322	BADGES	
Training (NASA Internal)	3400	Astronauts	1020
Training (Public)	1394	Identification	1620
		Balance of Payments, International	9380

	Index No.	NRS No.		Index No.	NRS No.
BID AND PROPOSAL FILES			Bugging, Electronic	2530	
Acceptable bidders	5100		... ALSO SEE "Investigations" ...		
Cancelled	5149		BUILDING(s)		
Successful	5115		Allocation (of space)	1540	
Unsuccessful	5115		Conference Rooms and Auditoriums ...	1542	
Bills of Lading	6051		Correspondence	1540	
Binding	1490		Credentials	8800	
(Definition of; Equipment; Standards/ Specifications)			Directory Service	1550	
Biological Contamination	5340		Fallout Shelters	1043	
... ALSO SEE "Contamination" ...			Fire Protection, Safety Manual	1700	
Boards	1150		Inspections	8833	
... ALSO SEE "Committees" ...			(Boilers / Elevators)		
Boilers, Inspection of	8833		Management	1540	
BONDS			Plans	8800	
Personnel Surety	2000		Release	8813	
Savings	3960		Relocatable Structures	8811	
BUDGET:	7400		Reports	7234	
Activities Funded through Other			Request for Services	1550	
Agencies			Space and Maintenance	1540	
Administration			Space Utilization Report	7234	
Administration Manual			Utilization	8812	
Appropriation of Funds/Legal			BUY AMERICA ACT	5125	
Requirements for Management			Canadian Supplies:		
Apportionment			Bids/Proposals Evaluation		
Correspondence Files			Determination		
Estimates	7422		Findings		
EXECUTION:	7400		End Products and Construction Materials:		
Allotment of Funds			Bids/Proposals Evaluation		
CoF Appropriation			Determination		
Program Operating Plans,			-----		
Development, Administration of			***** C *****		
R&PM Appropriation			Calendars	1570	
Resources Authority Warrants			Calibration, Instruments	5330	
Warranting/Funds Apportioning			California Institute of Technology (CALTECH)	1152	
FORMULATION:	7400		Canada, Buy America Act	5125	
Annual Budget Submission			Career Development (Training)	3410	
General Policies for			... ALSO SEE "Personnel" ...		
General Requirements for			Carrier (and Mode Selection)	6130	
Instructions for			... ALSO SEE "Transportation" ...		
Support Materials for			CARTOGRAPHY		
Formulation and Execution Handbook .	1103		Such as the Following:	7100	
Glossary of Terms	7400		Aerial Film		
Headquarters/Installations			Charts		
Responsibilities	7400		Aeronautical		
Historical/Statutory Basis for			Hydrographic		
Federal Budget Process	7400		Composites		
Overobligation of Funds,			Data Tapes		
Disciplinary Action for	7400		Field Survey Notes		
Operations Division	1103		Geodesy		
President's Budget/Information			Globes and Models		
Disclosure Responsibilities	7440		MAPS:		
R&D Appropriation	7400		Computer		
R&PM Appropriation, Direct			Correction		
Obligations Preparation by Sub-			Hand Drawn		
Function and Subject	7400		Lunar and Planetary		
Relationship of Other Agencies	7400		Microfilm		
Reports	9300		Published		
Responsibility for	7400		Raised Relief		
Summary of Functions:	7400		Products/Services, Acquisition of		
Formulation/Review and Enactment/ Execution					
Structure of Accounts/Available Funds/Programs and Projects					
Terminology	7400				
... ALSO SEE "Financial Management"...					

	Index No.	NRS No.		Index No.	NRS No.
CAS (Cost Accounting Standards)	5130		Civil Service Commission (CSC)	3510	
... ALSO SEE "Cost Accounting" ...			Civilian Personnel (General)	3000	
CASE FILES			... ALSO SEE "Personnel" ...		
Agency Policy Changes	1200		CLAIMS		
Classification Appeals	1640		Civil	2080	
Contract Appeals	5133		Contract	2084	
Emergency Planning	1040		Government Property Damage/Loss	2080	
Grants	5800		Headquarters Employees	2080	
Informational Services	1382		Pay, Erroneous Payments of	9645	
Map History	7100		Personal Injury	2080	
Personnel	3000		Personal Property Damage	2000	
Privacy Act Amendment	1382		Rented Vehicles Damage	9730	
Property Disposal	4300		Tort	2082	
Research and Development	7100		Work-Related Injury or Disease	3810	
Surplus Property, Disposal of	4320				
Casualty Reports	1711		Classification Act System	3500	
... ALSO SEE "Accidents" ...			CLASSIFIED		
Center	1107		DOCUMENTS:		
... ALSO SEE "Field Installation" ...			Access Control	1630	
CERTIFICATES			Accounting	9200	
Cholera	1820		Administrative Correspondence	1600	
Classified Document Destruction	1630		Container Security	1620	
Eligibles (Employment)	3300		INFORMATION/MATERIAL AND CONTROL:		
... ALSO SEE "Personnel" ...			Access Control	1630	
Export	6310		Container Security	1620	
Full Faith and Credit	2000		Correspondence	1600	
Medical	1820		Classification Program	1640	
Performance Rating	3430		Defense Information, Release	1630	
Tax Exemption	2000		Destruction Certificates	1630	
Title	2000		Determinations of	1640	
Transit	6000		Duplicating of	1490	
Certification Process, Procurement	1240		Information Security Program		
CEQ (Council on Environmental Quality).	1156		Committee	1152	
CFR (Code of Federal Regulations)	1410		Inventory (Property)	4100	
Charts	7100		Nondisclosure Agreement	1610	
... ALSO SEE "Cartographic" ...			Printing of	1490	
CHIEF ENGINEER			SYMPOSIA	1620	
Committee Memberships	1152		Guidelines for Security Measures At		
Organization Chart	1103		Location of		
Position Objectives			Requirements for		
RESPONSIBILITIES:			Restrictions on Attendance by Foreign		
Competition Advocacy Program	1210		National or Representative at		
Reliability, Maintainability and			Security Approval Request for		
Quality Assurance	5300		Clearance, Personnel	1610	
Space Transportation System			Clothing, Protective	1700	
Program	8010		CoF (Construction of Facilities)	8820	
Chief Scientist-Role & Responsibility .	1103		... ALSO SEE "Construction" ...		
Cholera Vaccination Certificate	1820		Commendation Letters	3450	
Circular A-76, Performance of			Commercial Aircraft	1620	
Commercial Activities (OMB)	1329		... ALSO SEE "Aircraft" ...		
Civil Claims, Collection	2080		Commercial Products	7500	
Civil Defense	1041		COMMERCIAL PROGRAMS, OFFICE OF	1103	
			Assistant Administrator:		
			Authority to Act for		
			Role and Responsibilities		
			Organization Chart		
			Commercialization, Space	7500	
			Commissions	1150	

	Index NRS No. No.		Index NRS No. No.
COMMITTEES and: BOARDS, COUNCILS, PANELS, ADVISORY		COMMUNICATIONS	
Boards	1150	Administrative	2540
Commissions	1150	Correspondence	2500
Establishment, Operation, Duration .	1150	Cryptography	2550
of NASA Internal Committees		Electric Power Supply	2530
		(Policy On / Responsibility for)	
ESTABLISHMENT/MANAGEMENT OF:		Emergency	2530
		Administrative Control	
ADVISORY	1156	Situations	
Such as:		EQUIPMENT	5117
Aeronautics Advisory Committee		Electronic	
Aerospace Safety Advisory Panel:		Acquisition of	
Environmental Quality Council;		Definition of Radio Frequency	
Historical Council;		Allocation	
Life Sciences Council;		Assignment	
Ocean Dynamics Subcommittee;		Energy	
Research and Technology Advisory Council;		Support	
Space & Earth Science Committee;		Management of Radio Frequency	2570
Space Applications Committee;		Policy on / Responsibility for ...	5117
Space Processing Ad Hoc Subcommittee;		Federal Telecommunications System ..	2520
Space Processing Payload Subcommittee;		Long Distance Telephone Reports	2530
Space Science & Applications Steering		Messages	2530
Committee (SSASC);		NASA Communication System	2520
Space Systems and Technology Committee;		Operation	2510
Wage Committee.		Policy of / Procedures for	2520
		Reports, Administrative	2540
INTRA-AGENCY	1152	Telephone	2530
Such as:		RESPONSIBILITIES:	2520
Adjustment Board Committee;		Field Installations	
Advance Waiver Review Board (ICB);		Goddard Space Flight Center	
Appeals Board;		Headquarters Administration	
Caltech/JPL Performance Evaluation;		Division	
Engineering Management Council;		Headquarters Program Directors	
Equal Opportunity Council;		Marshall Space Flight Center	
Inter-center Aircraft Operations Panel;		Office of Space Tracking and	
Intercenter Committee on Automatic		Data Systems	
Data Processing;		Shuttle Communications	8610
Inventions and Contributions Board;		SYSTEMS, NASCOM	2520
NASA Council;		Administrative Procedures	
Operations & Engineering Panel;		Definitions:	
Parts Steering Committee;		Administrative Communications	
Planning & Program Integration;		Administrative Telecommunications	
Policy Analysis;		Network	
Security Classification Program;		Federal Telecommunications System (FTS)	
Space Medicine Board;		NASA Communications System (NASCOM)	
Space Medicine Policy Board;		National Communications System (NCS)	
Space Flight;		Operational Communications	
Space Tracking and Data Systems Committee;		Telecommunications New Start	
Special Projects		Telephone Calls	2540
		Telephone Co. Charge Certification .	9080
INTERAGENCY	1154		
Such as:		COMMUNIST	
AIM (Automated Information Management		Dominated Countries & Areas:	
Council)		Definition of	1371
Federal Executive Boards (FEB):		Security	1620
Activities & Related Associations		Guests From	1371
		Travel To	1620
NASA Internal Standing Committee for		Compensation, Employee Acceptance	1900
Issuance of Permits to Ship Rocket		Competition Advocacy Program	1210
Motors Containing Class B Explosives		Competitive Placement Plan (GS-15 &	
in a Propulsive State or with the		Below)	3335
Igniters Installed	1152	... ALSO SEE "Personnel" ...	
		Complaints, Discrimination	3700
		... ALSO SEE "Personnel" ...	

	Index No.	NRS No.		Index No.	NRS No.
COMPTROLLER			CONSULTANTS (and EXPERTS)		
Financial Management Division /			Aerospace Safety Advisory Panel	1156	
Function	1103		Contracts/Guidelines	5117	
RESPONSIBILITIES:			Employees as	1900	
Disposal of Foreign Excess			Employment of	3304	
Personal Property	4340		Standards of Conduct	1900	
Financial Policies/Procedures/ Regulations	9210		CONTAMINATION CONTROL		
COMPUTER PROGRAMS, NASA			Biological	5340	
DISTRIBUTION OF:	2210		Lunar and Planetary	8020	
Authority for			Funding of		
Definitions			Policy on		
Policy for			Procedural Issuances		
Procedures for			Responsibility for		
Responsibilities for			Microbial Examination of Space		
Restrictions on Use of			Hardware	5340	
Computer Resources Management	2400		Microbially Controlled Environments.	5340	
... ALSO SEE "Automatic Data Processing" ...			Outbound Spacecraft	8020	
Concealed Weapons	1620		PLANETS	8020	
CONDUCT			Mission Constraints for		
Standards of	1900		Policy on		
(NASA Employee Handbook / NASA Special Government Employees)			Responsibility for		
Illegal or Unethical, Investigation and Reporting	9950		CONTRACT (Procurement)	5100	
(Policy On / Responsibility for)			Contract Disputes Act of 1978	5133	
Safeguarding Crop Information	1900		... ALSO SEE "Procurement" ...		
Statements of Employment/Financial Interests	1900		CONTRACTORS		
CONFERENCE(s)			Aeronautical and Space System, Quality Program Provisions	5300	
Classified Symposia	1620		Audits of	9910	
External (Public)	1389		Cost & Performance Data, Reporting Procedures for	9300	
Management	1200		Debarments	5101	
News (Media)	1389		Employment Practices, EEO	5200	
Publications	2220		Financial Management Report System .	9300	
Rooms/Auditoriums	1542		Government Cost Monitoring	5142	
Technical Symposia, Participation ..	1350		Overhead Monitoring	5131	
... ALSO SEE "Meetings" ...			Payroll	5131	
CONFLICT			Performance Evaluation	1152	
OF INTERESTS:			Reports	2220	
Aerospace Space Advisory Panel ...	1156		Statement of Contingent or Other Fees	5100	
Avoidance of	5103		Statement of Work	5600	
Enforcement Procedures	1900		Work Breakdown Structures	5610	
Post Employment Regulations	1900		CONTRACTS:	5100	
Congress, U.S.	1450		Adjustment Board	1152	
Correspondence			ADMINISTRATION:		
Definition of			Related Field Services:	7410	
Policy for			Budgeting of		
Replies to			Funding of		
Responsibility for			Interagency Agreements		
Congressional Space Medal of Honor	1020		Payment of		
CONSTRUCTION			Policy on		
Of Facilities (CoF):			Resources Authorizations for		
Appropriations	7400		Appeals, Procedures for	5133	
Approval, Authority for	7330		Appeals Board, Establishment of	1152	
Buy America Act	5125		Audit Reports of	9910	
CoF	8820		Consulting Services	5117	
Design and Engineering	8823		Debarment/Suspension	5101	
Fallout Shelters	1043		Duplicating of	1490	
General (Information)	8821		Federal Acquisition Regulation		
Major Construction	8826		Supplement	5100	
Minor Construction	8827		Foreign, Waivers on	5101	
Monuments, Proposed	8823		Incentive Contracting Guide	5104	
NASA Facilities Programs	8800		Indirect Cost Monitoring	5142	
(Coordination / Planning)			Printing of	1490	
			Procurement, Responsibility for ...	5108	
			Security Policies and Procedures ...	1650	
			Source Evaluation Board, Manual ...	5115	
			University, Termination of	8340	
			... ALSO SEE "Procurement" ...		

	Index No.	NRS No.		Index No.	NRS No.
Disabled Veterans	3300		Duty Stations, Travel to	9710	
Disabling Injuries	1700		-----	-----	-----
(Classification of / Definition of)					
Discrimination Complaints	3700		***** E *****		
Disease & Injury Exposure Control (Astronauts)	8900		Earth Resources Survey Program		
... ALSO SEE "Occupational Medicine" ...			Imagery	8000	
Distinguished Public Service Medal (DPSM)	3451		Policy On Responsibility for Sale of Remote Sensing Data, Delegation of Authority	1050	
DOCUMENTS			Easements, Granting Of	8813	
Federal Register Publication	1412		EDUCATION		
Delegation of Authority for Legal Requirement for / Policy Responsibility for			Exhibits Program	1387	
Page/Reprint Charge	9280		Information Products	1380	
Funding of			Personnel Training/Development	3410	
Policy on			Programs	1392	
Scientific and Technical	2220		... ALSO SEE "Training" ...		
Technical Information, Professional Journals / Page Charge	9280		EEO (Equal Employment Opportunity) Policy	1103	
DoD (Department of Defense)	1316		... ALSO SEE "Personnel" ...		
... ALSO SEE "Defense" ...			ELECTRONIC		
DOWNGRADING			Crimping and Wire Wrap	5300	
Classification Program	1640		Data Processing	2400	
Classified Information/Marking	1620		... ALSO SEE "Automatic Data Processing" ...		
... ALSO SEE "Security" ...			EQUIPMENT/PARTS:		
DPSM (Distinguished Public Service Medal)	3451		Acquisition of	5104	
DRAWINGS			Basic Policy For	5320	
Alteration (CoF)	8828		Background		
As-Built	8800		Definitions		
Contract	5100		Electronic Parts		
Design & Engineering (CoF)	8823		Flight Hardware		
Maps	7100		Implementation		
Measured.....	8000		Mission Essential Ground Support Equipment		
Preliminary:			Off-the-Shelf Equipment		
Real property	8800		Harnesses	5300	
Research and Development	7100		Interconnector Cables		
Federal Structures Design	7300		Printed Wiring Boards		
Presentation (To Management)	1200		Conformal Coating / Staking		
Published (Manuscript)	2220		Soldered Electrical Connections		
Repair	8830		STANDARD PARTS PROGRAM:	5320	
Shop	7000	8000	Implementation		
Space Assignment	1540		Lead Center/User Center Tasks		
Drug Abuse	3792		Responsibilities		
History			SURVEILLANCE:	2530	
Policy			Communication		
Program Components			Investigations		
Responsibilities			Meetings		
Drug Enforcement Administration, Regional Offices	1815		Telephones		
Drugs	1815, 3792		Security	1600	
Dryden Flight Research Facility, ARC Responsibilities	1107		Wiring	5300	
... ALSO SEE "Field Installations" ...			Elevators, Inspection of	8833	
Duplicating	1490				
Definition of					
Contract-Grant Documentation					
Regulations					
Unlawful					
... ALSO SEE "Printing" ...					

	Index No.	NRS No.		Index No.	NRS No.
EMERGENCY			EMPLOYEE PERFORMANCE AND UTILIZATION ..	3410	
Administrator, Authority to			Employee Development		
Act For	1162		Supervisory Training		
COMMUNICATION SERVICES DURING:	2530		Training Outside the U.S.,		
Allocation			Responsibility for Approval		
Emergency Circuit Requirement			Training Within the U.S.,		
Policy on			Responsibility for Approval		
Procedures for			Upward Mobility Program		
Reallocation			Employee Personal Property Claims	2080	
Restoration/Priority			Employee Recognition and Incentives ...	3450	
Validity Authority			Employee Incentives	3451	
COMMUNICATIONS TRAFFIC,			EMPLOYMENT	3300	
ADMINISTRATIVE CONTROL:	2530		Experts and Consultants	3304	
Essential Traffic			Outside	1900	
Minimize			Outside Applicants	3335	
NCS Circuit Requirement/			Personal Service Contracts,		
Component Networks			Handicapped Individuals	3300	
NCS/DCA Operations Center			Post Employment Regulations	1900	
(NCS/DCAOC)			Power of Appointment and Removal: ..	3311	
NCS Operating/Using Agency			Administering Oaths of Office		
Nonessential Traffic			Delegation of Authority		
Policy On			Excepted Positions		
Responsibility for			Recruitment/Selection/Placement		
Telecommunications			Intergovernmental Personnel Act		
Delegation of Emergency Authority ..	1040		of 1970	3334	
LINES OF SUCCESSION:	1160		Promotion and Internal Placement		
Approval/Documentation for			Competitive Placement Plan for		
General Provision for			Positions GS-15 and Below	3335	
Indoctrination for			ENGINEERING		
Requirements for			Construction	8820	
PLANNING:			Facilities Handbook	7320	
Casualty Reporting	1044		Reports, CoF Preliminary	8820	
Civil Defense	1041		ENVIRONMENTAL		
Correspondence	1040		Council	1156	
Directives	1040		Health Program	1800	
Directives Reference Files	1040		Quality, Assessment Guidelines	8800	
Fallout and Fallout Shelter	1043		National Environmental Policy Act		
Mobilization Readiness	1046		Preparation of Environmental		
Operations Tests	1046		Assessments		
Plans	1040		EO (Equal Opportunity), Office of	3700	
Reports	1040		... ALSO SEE "Equal Opportunity" ...		
Procedures/Notification and Alert			Equal Access to Justice Act	2013	
System	1590		EQUAL OPPORTUNITY		
REGIONAL PREPAREDNESS COMMITTEES: ..	1040		Complaints	3700	
Designations for			Council	1152	
Functions of			Director, Office of/Delegation of		
Representatives			Authority	3713	
Warden Organization	1042		Functions	1103	
EMPLOYEE (Personnel)	3000		Organization Chart (Office of)	1103	
... ALSO SEE "Personnel" for Related			Policy for	3713	
Topics ...			Responsibility For	1380	
Employee Development	3400		Trophy	3451	
Employee Inventions	3450		Upward Mobility Program	3410	
Employee-Management Relations	3711				
... ALSO SEE "Personnel Relations" ...					
Employee Participation in Scientific					
and Engineering Symposia	1350				

	Index No.	NRS No.		Index No.	NRS No.
Fallout Shelters	1043,	7400	FIELD INSTALLATIONS CONTINUED:		
FBI (Federal Bureau of Investigation) ALSO SEE "Federal" ...	1610		Micrographics Management	2314	
Feasibility Studies	7000		News Releases	1380	
FEB (Federal Executive Board)	1154		Organization	1107	
... ALSO SEE "Committees" ...			Procurement Officers	5131	
FEDERAL			Property and Supply Officers	4100	
Acquisition Regulation Supplement ..	5100		Public Affairs	1380	
Budget System	7400		Roads, Naming Of	1022	
... ALSO SEE "Budget" and "Financial Management" ...			Roles and Responsibilities	1100	
Bureau of Investigation, (FBI)			RTOP Management System	7100	
Personnel Security Referrals	1610		Security Instructions/Requirements .	1620	
Cataloging	4410		Field Investigations	1610	
(Utilization and Maintenance of)			... ALSO SEE "Investigations" ...		
Employees' Labor Management			Files Management Program	1442	
Relations Program	3711		Definitions		
Executive Board Activities	1154		Maintenance		
Insurance Contribution Act (FICA) ..	7400		Uniform Files Index		
Mail, Privileges/Restrictions on ...	1450		FILMS		
Record Disposition Handbook	1441		Agency Activities	1300	
Register (NASA Documentation)	1412		Duplicates	2600	
Standard Requisitioning and Issue			Educational	1392	
Procedures (FEDSTRIP)	4050		Engineering	8000	
Telecommunications System (FTS)	2530		Grants	5800	
Water Pollution Control			Outtakes	2600	
Administration	8800		Policy	1200	
FEDSTRIP (Federal Standard Requisitioning and Issue Procedures)	4050		Recruiting	3330	
FIELD INSTALLATIONS (CENTER)			Research and Development	7000	
Chief Counsels	2000		Scientific Medical	8900	
Classified Information/Safeguarding.	1620		Stock Footage	2600	
Communication Responsibilities	2520		Surveillance	1600	
Definition of	1132		Training	3400	
Delegations of Authority,			Financial Interests, Employee	1900	
Appropriations	7240		FINANCIAL MANAGEMENT		
DIRECTORS OF:			Accounting & Reporting Requirements		
Responsibilities:			Installation Year-End	9390	
Facilities Master Plan	7232		Administrative Control of		
GIDEP Representative	5310		Appropriations and Funds:	9050	
Micrographics Management	2314		Administrator's Fund		
News Releases	1380		Exchange Activities		
Position Classification	3510		Prccedures for		
Real Property Acquisition	8811		Violations, Reporting of		
Statements of Employment/ Financial Interests	1900		Appropriations	9100	
Stores Stock Management	4100		Auditing	9900	
Facilities	7232		Balance-of-Payments, International .	9380	
GIDEP Program	5310		Budget Administration Manual	7400	
History Program	1070		Budget Estimates	7422	
Information Processing			Congressional Budget	7450	
Responsibility	2410		Contract Administration, Related		
INSTALLATIONS:	1107		Field Services:	7410	
Ames Research Center (ARC)			Budgeting		
Goddard Space Flight Center (GSFC)			Funding		
Johnson Space Center (JSC)			Payment		
Kennedy Space Center (KSC)			Policy		
Langley Research Center (LaRC)			Resources Authorizations		
Lewis Research Center (LeRC)			Contractors Reports System	9300	
Marshall Space Flight Center (MSFC)			Cost & Performance Data		
National Space Technology (NSTL)			Financial Management Reports		
Laboratories			Currency, Foreign	9393	
			Definitions:		
			Country-Use Currencies		
			Excess/Near-Excess		
			Action on		
			Responsibility for		
			U.S. Currencies		

	Index No.	NRS No.		Index No.	NRS No.
FINANCIAL MANAGEMENT CONTINUED:					
DIRECTOR OF (FINANCIAL MANAGEMENT DIVISION)			FOIA (Freedom of Information Act)	1382	
Authority of	9210		FOREIGN AFFAIRS		
Objectives of	1103		Aeronautical and Space Program	1362	
Reporting of	9200		Decorations, Acceptance of	1030	
Responsibilities	1103		Exchange Visitors Employed by		
Organization Chart	1103		NASA Contractors	1371	
Division, Office of the Comptroller.	1103		Policy		
Foreign Currency	9380		Waiver of Residence Abroad		
MISCELLANEOUS FINANCIAL MATTERS:			Exhibits Request	1387	
Allowances:			Intergovernmental Negotiations	1360	
Notaries Public	9600		Technology Utilization Material,		
Payroll, Leave, and	9620		Access to	2110	
Authorizations:			VISITORS ACTIVITIES COORDINATION:		
Annual Obligation Reports			Communist Dominated Countries and		
Certification	9040		Areas	1371	
Payments/Vouchers, Certification	9630		Foreign Nationals		
Telephone Company Charges			Foreign Representative		
Certification	9080		Procedures for		
NASA Participation in Congressional			Responsibility for		
Hearings (Budget)	7460		... ALSO SEE "International" ...		
Policies/Objectives	9000		Foreign Currency	9380	
User Charges	9080		... ALSO SEE "Financial Management" ...		
FINDING AIDS			FOREIGN TRAVEL		
Audiovisual	1521		Approval of	9710	
Cartographic	7100		College/University Personnel	9720	
Design and Construction	8823		Communist-dominated Countries (To) .	1620	
NASA and NHQ Forms Index	1420		Approval of		
Scientific and Technical	2200		Definition		
Uniform Files Index	1442		Scope		
Fire Protection	1700		Purpose of		
FIREARMS	1620		Health Services	1820	
Authorization to Carry			Nonprogram Activities	9710	
Control and Issuance:			Outside Meetings		
Definitions:			Requirements		
Certifying Official			Studies/Training		
Concealed Firearm			Trip Reports		
Unconcealed Firearm			FORMS AND REPORTS, PREPARATION OF		
Possession:			Announcement of Opportunity	7100	
Certification for			MANAGEMENT PROGRAM	1420	
Commerical Aircraft Limitations			Definitions:		
Conditions for			Forms		
Proficiency Maintenance			Installation Form		
Qualifying Procedures/Standards			NASA Form		
Record Keeping			Optional Form		
Responsibility for			Standard Form		
Storage Requirements			NASA/NHQ Prefixed Forms Index		
Training			Objectives		
Weapon Standards			Policy		
FLAGS	1020		Procedures		
Half-Staff			Responsibilities		
NASA			Marine Equipment	6600	
Rules			RTOP	7100	
United States			Statements of Work	5600	
Flammability, Odor, and Offgassing			Forms Management	1420	
Requirements and Test Procedures for			FREEDOM OF INFORMATION ACT (FOIA)	1382	
Materials in Environments that Support			(Agency Records, public access to)		
Combustion	8060		Administrative		
Flexitime Attendance	3600		Appeals		
FLOOD HAZARDS			Control		
NASA Facilities Budget Estimate			Reports		
Guidelines for	7400		Requests		
Floodplain and Wetland Management ..	8800		Freight	6100	
			FTS (Federal Telecommunications	2530	
			System)		
			Full Faith and Credit Certificates	2000	

	Index No.	NRS No.		Index No.	NRS No.
GSA (General Services Administration)			HEALTH, EDUCATION AND WELFARE (HEW)		
Regional Offices	8811		(Health and Human Services)		
... ALSO SEE "General" ...			Department Of:		
GSFC (Goddard Space Flight Center)	1107		Air Pollution Division	8800	
... ALSO SEE "Goddard Space Flight" ...			Extraterrestrial Exposure,		
GUARD			Quarantine For	8020	
Assignment	1600		Hearing Conservation	1820	
Facility Checks	1620		Historian, Duties of	1070	
Service Control	1600		Historical Advisory Committee	1156	
Logs and Registers	1680		HISTORY PROGRAM		
Guide for Inservice Inspection of			Artifacts:	4310	
Ground-Based Pressure Vessels and			Definition		
Systems	1700		Disposition		
Guns	1620		Lists, Preparation		
... ALSO SEE "Firearms"			NASA Artifacts Committee		
-----			Policy		
***** H *****			Procedures		
Handicapped Individuals	2090,	3300	Responsibilities		
HEADQUARTERS			Director, Responsibilities	1070	
ADMINISTRATION:			Policy		
Classified Information/Safe-			Program		
guarding Responsibilities	1620		Holiday Designation	3610	
Consulting Services Contracts/			Honor Awards	3451	
Responsibilities	5117		... ALSO SEE "Awards" ...		
DIRECTOR OF HQ ADMINISTRATION:			Honorariums, Employee Acceptance	1900	
Authority to Approve Labor-			Household Goods/Effects, Shipment of ..	9760	
Management Agreements	3711		HOUSING:		
Responsibilities	1102		And Personnel Quarters-Management of	8814	
Materials Inventory Management	4100		Maintenance and Repair	8830	
Organization Chart	1102		Reports	8845	
Field Installations Organization .	1107		Requests (EEO)	3713	
Research and Technology Activity ...	7100		HUMAN RESEARCH:	7100	
RTOP Management System	7100		Authorization for		
Science Activity	7100		Policy/Procedure		
HEALTH			Committee on		
Alcohol/Drug Abuse Program	3792		Content of Protocol for		
Civilian Programs	3890		Definitions		
Clinical Facilities	1814		Injuries/Illness or Disease (Reports on)		
Controlled Drugs, List of	1815		Legal/Safety/Medical Office (Reviews of)		
Disaster Medical Planning	1890		Procedures Changes, Reports on		
Dispensary Logs	1814		Protocols/Authorization of		
Environmental Health Program	1870		Requirements/Exceptions/Waivers		
Health Record Cards	1800		Subjects, Rights of		
Hearing Conservation in Noise			Voluntary Informed Consent of		
Exposure, Guide To	1820		Director, Responsibilities of	8811	
Individual Cases	1800		-----		
Machine-Readable Files	2400				
Medical/Dental Care Program	3800				
... ALSO SEE "Astronauts" ...					
Medicines	1812				
Narcotic and Drug Control	1815				
(Policy / Responsibilities)					
NASA Policy	8710				
Occupational Medicine	1800				
Occupational Safety and Health					
Programs	8720				
Physical Fitness	1830				
Safety and Health Handbook	8720				
Safety and Health Programs	8710				
Services/International Travel	1820				
Qualification Requirements					
Employment	3339				
Reports	1415				

	Index No.	NRS No.		Index No.	NRS No.
***** I *****					
Identification-Badge Card (Identification Credentials)	1620		Program Management Case Files	8000	
Illegal or Unethical Conduct, Investigation and Reporting of ... ALSO SEE "Conduct" ...	9950		Public Appearances	1384	
IMAGERY			PUBLICATIONS:		
Earth Resources Survey Program	8005		Educational and Public	1392	
Remote Sensing Imagery	7100		Scientific and Technical	2220	
Immigrant Aliens, Definition of	1610		Release to GAO:	1325	
Importing of Space Articles	8610		Policy/Ground Rules		
Incentive Awards ... ALSO SEE "Awards" ...	3451		Response to Requests		
Incentive Contracting Guide ... ALSO SEE "Procurement" ...	5117		Special Cases		
Indebtness, Employee	1900		Statutory Authority		
INDEX(es)			Release to News Media	1380	
NASA Management Instructions (NMI)	1410		Retrieval/Records Disposition	1441	
NASA and NHQ Prefixed Forms	1420		Requests	1382	
Uniform Files ... ALSO SEE "Finding Aids" ...	1442		SCIENTIFIC AND TECHNICAL:		
INDUSTRIAL			Definition	2220	
Labor Relations Manual, Contracts	5200		Distribution and Availability		
Labor Relations Manual, Program Management	8020		Categories	2230	
Products/Services, Acquisition of	7410		Document Availability		
Relations, Office Of, Director	1102		Authorization		
Security	1650		Definitions		
Ventilation Handbook	7320		Policy		
Wind Tunnel Utilization	1300		Responsibilities		
Inflationary Impact Evaluation	7400		GIDEP	5310	
INFORMATION:			Policy	2220	
Acknowledgement Files	1380		Presentation/Publication, Authority for		
Audio Visual News Material	1383		Publication, Definitions		
Agency Records, Public Access	1382		Related Policies on		
Bibliographies	1070		Responsibilities		
Congressional	1450		Space Science Flight Data	8030	
Correspondence	1450		Senior Management, Direct Channel To	3711	
Executive Instructions on	1451		Speeches	1385	
Control Systems	2340		Television, Use for Information		
Freedom of	1382		Dissemination	1103	
Information Management System	2300		Injuries, Compensation For	3810	
Internal Communications	1480		INSIGNIA, OFFICIAL NASA		
Internal Control Of	1200		Establishment/Description of	1020	
NASA Release to GAO	1325		(Use of, Policy On)		
Personnel, Release of	3294		Printing Standards for	1490	
Press Conference Transcripts	1389		Reimbursable Launch Vehicles	8610	
Press Releases	1380		INSPECTIONS:		
Privacy Act	1382		Boilers	8833	
PROCESSING, Management Of	2410		Buildings	8834	
Resources Management Handbook			Elevators	8833	
Acquisition Plans			Government Owned Facilities	8825	
Inventory Controls			NASA Property, Persons	1600	
Policy and Responsibilities			Personnel	3273	
Privacy and Security Data			Policy	8833	
Software Management			Pressure Vessels	1700	
Security Assurance			Privately Owned Facilities	8833	
			INSPECTOR GENERAL (IG):		
			Audit Policies/Procedures	9910	
			Committee Membership	1152	
			Employee Complaints To	3711	
			General (Audits/Investigations)	9500	
			Investigations By	9950	
			Organization Chart/Responsibility	1103	
			Relationship with GAO	9920	
			Installation Institutional Capability		
			Planning and Plans	7234	
			(Facilities Utilization Program)		

	Index No.	NRS No.		Index No.	NRS No.
INSTALLATIONS	1107		INTERNATIONAL:		
Ames Research Center (ARC)			Aeronautical and Space Programs	1362	
Goddard Space Flight Center (GSFC)			Affairs, Division of	1360	
Johnson Space Center (JSC)			Intergovernmental Negotiations ...	1360	
Kennedy Space Center (KSC)			Appointment of Delegates to		
Langley Research Center (LaRC)			International Conferences	1360	
Lewis Research Center (LeRC)			Certificates of Vaccination	1820	
Marshall Space Flight Center (MSFC)			Cooperative Projects	1362	
National Space Technology (NSTL)			DIRECTOR OF (AFFAIRS)	1103	
Laboratories			Delegation of Authority to Act for		
Classified Information/Safeguarding			Organization Chart		
Responsibility	1620		Position Objective		
Communications Responsibilities	2520		Responsibilities of		
Security Instructions/Requirements .	1620		Fellowships	1374	
... ALSO SEE "Field Installations" ...			Foreign Visitors/Activities		
INSURANCE AND ANNUITIES	3800		Coordination	1370	
Group Life Insurance	3870		Organizations	1365	
NASA Employees Benefit			Organization Chart (NASA)	1103	
Association (NEBA)	3870		Resident Research Associateships ...	1376	
Health Insurance	3890		Responsibilities	1103	
Injury Compensation	3810		Support of Overseas Operations	1367	
Retirement	3831		System of Units (SI)	8010	
Social Security/Retirement	3830		Training of Foreign Nationals	1378	
Unemployment Compensation	3850		Transactions	9300	
INTERAGENCY AGREEMENTS:			Travel Abroad (NASA)	1373	
Amendments or Review of	1050		Approval of	9710	
Basic Requirement For	1050		Interview, Exit	3700	
Contract Administration, Related			... ALSO SEE "Personnel" ...		
Field Services	7410		INVENTIONS:		
Definition:	1050		Appeals	3450	
Format and Preparation			Award Consideration	3450, 1170	
Cancellation Paragraph			Contributions (and), Scientific and		
Draft Copies			Technical	5700	
Effective Date and Termination			CONTRIBUTIONS (AND) BOARD:	1170	
Final Version			Advance Waiver Review Panel	1152	
Original			Definition of	5109	
Reference List			Membership	1152	
Signature Block			Patent Waiver Petitions, Findings,		
Subject Title			and Recommendations	5500	
Listing	1050		Responsibility of	1170	
Obtaining Authorization for	1050		Services Provided by	1152	
Power and Authority, Negotiate/			Employees	3450, 1170	
Execute/Amend/Terminate:	1050		Licenses/Assignments, Acceptance of.	2000	
Conditions and Limitations On			PATENTS:		
Delegation of Authority			Foreign, Program for	5127	
Effects on Current Agreements			Licensing Regulations, NASA		
Reporting on			Inventions	5127	
Records and Publications of			Policy, Implementation of	3450	
Review of			Waiver Regulations	5127	
Space Tug/Inertial Upper Stage			Petitions	3450	
Management (Air Force)	8020		Responsibility for	3450	
Termination of	1050		Statement of Employment/Financial		
Intercenter Aircraft Operations Panel .	1152		Interests	1900	
Intercenter Committee on ADP	1152		INVENTORY MANAGEMENT:		
Interception of Conversations/Meetings			Information Processing Resources ...	2410	
Policy on	2530		ADP Equipment Inventory Control		
Interconnecting Cables	5300		Reporting Requirements		
Intergovernmental Personnel Act			Resource Sharing		
of 1970	3334		Software Management		
Interim Upper Stage	8000		Material Inventory Management		
Internal Control Systems	1200		Handbook	4100	
			Property	4100	
			... ALSO SEE "Property" ...		

	Index No.	NRS No.
INVESTIGATIONS:		
Accidents/Mission Failures	8621	
Bugging, Electronic	2530	
Full Field	1610	
Guidelines for Acquisition of	8030	
Outside Proposals/Procedures	8030	
Personnel	1610	
Policy on	2530	
Recording of	2530	
Reporting of	9950	
Responsibilities for Security		
Space Science & Applications	1152	
Terminology/Abbreviations	7100	
INVESTMENTS:		
Employees		1900
Key Officials		
Statement of Employment/Financial Interests		
Invitations (Public Appearances)	1384	
Invoices, Stores Accounting	4100	
IUS (Inertial Upper Stage)	8020	
... ALSO SEE "Defense" ...		

***** J *****		
JCP (Joint Committee On Printing)	1490	
... ALSO SEE "Printing" ...		
JET PROPULSION LABORATORY (JPL)		
Description	1132	
NASA Management Directives		
Application	1410	
Performance Evaluation Board	1152	
Resident Legal Office	2000	
Job Descriptions	3500	
... ALSO SEE "Personnel" ...		
JOHNSON SPACE CENTER (JSC)		
DIRECTOR:		
Authority to Act for	1107	
Lunar Materials Control		
Responsibilities	7100	
Organization Chart	1107	
Responsibilities, General		
Space Shuttle Program Responsibility		
Space Transportation System		
Responsibility	8900	
... ALSO SEE "Field Installations" ...		
Joint Committee On Printing	1490	
(JCP)		
JPL (Jet Propulsion Laboratory)	1107	
... ALSO SEE "Field Installations" ...		
JSC (Johnson Space Center)	1107	
... ALSO SEE "Johnson Space Center" ...		
Jury Duty	3630	

JUSTICE

	Index No.	NRS No.
Department of	1330	
Drug Enforcement Administration		
Regional Offices	1815	
Federal Register Documentation	1412	

***** K *****

KENNEDY SPACE CENTER (KSC)

DIRECTOR:	1107	
Authority to Act for		
Objectives		
Responsibilities		
Organization Chart	1107	
Shuttle Landing Facilities	6000	
Space Shuttle Program Responsibility		1107
Space Transportation System		
Responsibilities	8900	
... ALSO SEE "Field Installations" ...		
Key Control, Security	1600	
KEY EMPLOYEES / POSITIONS		
Investments, Requirements for	1900	
Outside Employment, Policy For	1900	
Ready Reserve Screening	3303	

KSC (Kennedy Space Center)	1107	
... ALSO SEE "Field Installations" ...		

***** L *****

LABOR

Contractor Labor Relations	5200	
Disputes, Strikes, and Work		
Stoppages (Contractor)	5220	
Employee-Management Relations	3711	
Industrial Labor Relations Manual ..	5200	
Labor Relations Board (Contractor) ..	5210	
Policy (Labor-Management Relations) ..	3711	
Program, Policy/Reporting/Review ...	3711	
Laboratory Notebooks	7100, 8000	
Laboratory Ventilation, Handbook For ..	7320	
Langley Research Center (LaRC)		
DIRECTOR:	1107	
Authority to Act for		
Objectives of		
Responsibilities		
Organization Chart		
... ALSO SEE "Field Installations" ...		

LAUNCH

Budget, Procurement Price-Out Data		
for Launch Vehicles & Spacecraft .	7400	
Insights on Reimbursable Launch		
Vehicles	8610	
Operations (Contracts & Agreements) ..	8610	
... ALSO SEE "Operations" ...		
Reimbursement for, Non-U.S. Govt.		
Users:	8610	
Application of		
Items Reimbursed		
Policy On		
Responsibility for		
Users, Definition of		
Space Systems, Termination	8640	
Tracking	8410	
Unmanned Space Flight Projects	8430	

	Index No.	NRS No.		Index No.	NRS No.
LAWS AND LEGAL MATTERS			LIFE SCIENCES		
Budget Administration	7400		Advisory Committee	1156	
Case Law	2020		Responsibility for	1102	
Civil Rights	2090		... ALSO SEE "Space Science" ...		
Claims (General)	2080		LINES OF SUCCESSION		
Conflict of Interest Enforcement ...	1900		Administrator, Delegation of		
Contract Claims	2084		Authority to Act For	1162	
Court Actions:	2010		Approval and Documentation of	1160	
Definitions of			Policy		
NASA, Against			Requirements		
NASA Employees, Against			Special Lines of		
Procedures for					
Federal Law	2015		LOGISTICS		
Federal Register/CFR Documentation .	1412		Logistics and Security Division,		
Interpretations	2070		Responsibilities	1102	
Laws and Legal Matters	2000		Federal Register Office, NASA		
Legal Assistance	2030		Representative	1412	
Taxes, Customs, and Duties	2040		Formulation of	7500	
Tort Claims:	2082		Organization Chart	1102	
NASA, Against			U. S. Government Manual Update	1410	
NASA Employee, Against					
U. S. Government, Against			Logotype, NASA Official	1020	
Leave	3600		Losses In Shipment Act, Government	6220	
... ALSO SEE "Personnel" ...			Lotteries, Employee	1900	
Lecturing (Employee)	1900		LUNAR		
Speeches	1385		Contamination	8020	
LEDGERS			Mapping	7100	
Allotment	9230		Planetary Nomenclature	8020	
Cost Report	9240		SAMPLES, Control of	7100	
General Accounts	9220		Policy on		
Property Accounting	9250		Responsibility for		
Subsidiary	9280		Selection, Research and Development		
... ALSO SEE "Accounting" ...			of Lunar Samples	1387	
LEGISLATIVE			-----		
Accident/Mission Failure					
Investigation	8621		***** M *****		
Affairs (Branch)	1320				
DIRECTOR:	1103		MACHINE-READABLE RECORDS	2400	
Authority to Act for			Such As:		
Functions			Backup Media		
Organization Chart			Guides		
Responsibilities			Information Retrieval		
MATERIAL, Definition of	1320		Instructions		
Processing of	7010		Reference		
Program	1320		Intermediate Data		
Requests for	1320		Master Files		
Responsibilities	1320		Print Files		
Responsibilities	1103		Publications		
Timely Implementation of			Reports		
(Directives)	1410		Source Data		
Levy and Garnishment	3500		Specifications		
File			File		
Lewis Research Center (LeRC)			Output		
DIRECTOR:	1107		System		
Authority to Act for			Temporary Media		
Responsibilities			Test Data		
Organization Chart			Test Documentation		
... ALSO SEE "Field Installations" ...			Valid Transaction		
Licensing, Patent Regulations	5127		Work Files		
... ALSO SEE "Patents" ...			Machines, Office (Copying)	1490	
Life Insurance, Group	3870				
... ALSO SEE "Personnel" ...					

	Index No.	NRS No.		Index No.	NRS No.
MAIL			MANAGEMENT		
Administration	1530		Affairs, Timely Implementation of ..	1410	
Control	1530		Alcohol/Drug Abuse	3792	
Internal Mail and Messenger	1551		Automatic Data Processing Equipment.	2410	
Loss Report	1530		Basic Operating & Management Concepts	1200	
NASA Management Program			Budget	1260	
Definitions:	1450		CONFERENCES/RETREATS, NASA		
Bulk Rate			Sponsored:	1200	
Mail			Background of		
Official Mail			Definitions:		
Objective			Management Conference		
Privileges			Retreat		
Contractor			Policy for		
Federal Government			Private Facilities, Use of		
Responsibilities			Approval for		
Restrictions			Reporting On		
Penalty Mail Routing	1450		Correspondence	1450	
Receipt and Routing	1530		Employee Disciplinary Action	3752	
Registered Mail	1450		Employee Relations With	3711	
Stamps	1450		Employment Ceiling/Funding	7240	
Statistical Reports	1450		Federal Register	1412	
Mailing Lists (Internal, NASA)	1551		Forms	1420	
Mailings, Official	1450		Financial, Relationship	7400	
MAINTAINABILITY ASSURANCE	5300		Financial, Responsibilities	1103	
Basic Policy and Responsibilities			Functional	1240	
Space Shuttle Program			Improvement	1470	
MAINTENANCE AND OPERATION			Information & Control System (MICS).	2340	
Marine Equipment	6600		Information Processing	2410	
Materials Handling Equipment	6430		Information Systems	2300	
NASA Facilities Programs	8800		Institutional	1250	
Major Facilities Utilization Report ...	7234		Internal Control Systems	1200	
MAJOR FLIGHT AND DEVELOPMENT			Investigations/Responsibilities	9950	
Configuration Control	8040		Manpower	3000	
Flight Experiments and Tasks	8030		Meetings (NASA Sponsored)	1200	
General Information	8010		MICROGRAPHICS, Management of	2314	
Inertial Upper Stage (IUS) Project .	8020		OFFICE OF:		
Major Flight and Development	8005		Associate Administrator		
Program Control	8020		Authority to Act for:	1102	
Standards and Specifications	8070		During Normal Conditions		
Systems Design	8060		In the Event of an Attack		
Systems Integration and Checkout ...	8050		Authority to Approve Employment		
Tests and Testing	8080		Ceilings	3510	
MAJOR SYSTEM ACQUISITIONS	7100		Lines of Succession	1102	
Background on			Responsibilities	1102	
Basic Policies on			Federal Register	1412	
Considerations/Strategy for			Organization Chart	1102	
Definitions			Position Management Program	3510	
Exceptions to Process for			Privacy Act of 1974	1382	
Procedure/Process for			Organizational Responsibilities/		
Reaffirmation to Need Statement			Structure/Changes	1120	
Preparation			Announcements/Other Actions of		
Responsibilities for			Approval Levels of		
			Definitions--Basic Organization		
			Field Installation		
			Headquarters Office		
			Documentation of		
			General Criteria for		
			Information Required for		
			Review/Approval Process for		
			Position Management Program	3510	
			Privacy Act of 1974	1382	
			Procurement	5000	
			Productivity & Quality Enhancement .	1270	
			Program	1230	
			Publications	1480	
			Records	1440	
			Reports	1415	
			Role of General	1220	

	Index No.	NRS No.		Index No.	NRS No.
MANAGEMENT CONTINUED:			MEDICINE		
SENIOR EXECUTIVE SERVICE (SES)	3100		Astronauts/Dependents/Health Care Program	8900	
Definitions:			Hearing Conservation	1820	
Career Reserved Position			MSF Responsibilities/Relationships .	8900	
General Position			Occupational	1800	
Senior Executive			Space Transportation System Responsibilities	8900	
Senior Executive Service Position			... ALSO SEE "Health" ...		
NASA EXECUTIVE RESOURCES BOARD ...	3100		MEETINGS		
NASA Performance Review Board			Management, NASA Sponsored	1200	
NASA SES Executive Position Managers			Background of Definitions:		
Responsibilities			Management Conferences		
Senior Executive Committee			Retreat		
Software/Flight Projects	2410		Policy for		
SUPPORT OFFICE - Consulting			Private Facilities, Use of		
Services Contracts/Responsibility	5117		Approval for		
Director	1103		Reporting on		
Position Objectives			Recording of	2530	
Responsibilities			Conditions for		
Organization Chart			Policy on		
Visual Aids	1430		Scientific and Technical, Visual For	2220	
Work	1216		Travel to	9710	
Work Breakdown Structures	5610		Merit Promotion Case Files and Merit Promotion Plan (GS-15 & BELOW).	3335	
Mapping	7100		Messages, Recording Precedences for ...	2530	
... ALSO SEE "Cartography" ...			Messenger Service	1551	
Marine Equipment, Maintenance of	6600		Metals, Precious - Recovery of	4300	
Markings On Space Transportation Vehicles, Component Systems, and Payloads	8610		Metric System	8010	
Marshall Space Flight Center (MSFC)			Microbiological Examination of Space Hardware	5340	
Communication Responsibilities	2520		Microcircuits - Qualified Products Lists Requirements for	5300	
Director	1107		Micrographics Management	2314	
Authority to Act for Objectives			MICROREPRODUCTION		
Responsibilities			Engineering Data, Specifications and Standards for	2280	
Organization Chart			Management	2314	
Space Shuttle Program			Policy and Guidelines	1440	
Responsibility	8020		MICS (Management Information and Control System)	2340	
Standard Parts Program			MILITARY		
Responsibilities	5320		Detailed Parent Service Report	3280	
... ALSO SEE "Field Installations" ...			Leave	3630	
Master List and Index to NASA Directives	1410		Personnel	3280	
MATERIALS			Service Obligations	3303	
Inventory Management	4100		Standard Requisitioning and Issue Procedures (MILSTRIP)	4050	
Procurement Requests	5100		... ALSO SEE "Personnel" ...		
Recovery of Critical	4300				
Safety Regulations	8060				
Unlawful Reproduction of (Printing).	1490				
MEASUREMENTS					
International System of Units	8010				
Metrology and Calibration	5330				
Metric System	8010				

	Index No.	NRS No.		Index No.	NRS No.
NEPA (National Environmental Policy Act)	8800		***** 0 *****		
NEWS (AND INFORMATION)			OAST (Office of Aeronautics and Space Technology) Role/Responsibility	1102	
Accident Investigation Reports	1382		... ALSO SEE "Office of" ...		
Accident Reports			Oaths of Office	3311	
Agency Records/Public Access			Ocean Dynamics Advisory Subcommittee ..	1156	
Casualty Reports			OCCUPATIONAL MEDICINE		
Conferences	1389		Agency Program	1800	
Coordination of / Policy	1380		Hearing Conservation	1820	
Officials, Public Appearance By	1384		Narcotics and Drugs, Handling of ...	1815	
Presentations, Scientific and Technical	2220		Safety and Health Handbook	8720	
Release	1382		Safety and Health Programs	8710	
Responsibility for	1380		... ALSO SEE "Health" ...		
Speeches, Scientific and Technical .	2220		Occupational Safety and Health Program.	8720	
Speeches, General	1385		OD (Operations Directive)	8610	
Noise Research, Hearing Conservation ..	1820		OEP (Office of Emergency Planning)	1040	
Nondisclosure Agreements (Employees) ..	1610		... ALSO SEE "Emergency" ...		
NONDISCRIMINATION			OFFICE		
Age	2090		Equipment	1571	
Federal Women's Program	3713		Furniture/Furnishings (Use & Replacement Standards)	4220	
Handicapped Individuals	2090		HEADQUARTERS (Office Role & Responsibilities)	1102	
NASA Federally-Assisted Programs ...	2090		Machines	1490	
Public Events Participation	1380		Personnel Management, of (OPM)	3510	
Nonprofit Institutions	1050		Supplies	1570	
Nonreimbursement of Costs, Space Act Agreements, Delegation of Authority	1050		OFFICE OF:		
NONSCIENTIFIC PAYLOADS	8610		AERONAUTICS AND SPACE TECHNOLOGY		
Definitions			Associate Administrator:	1102	
Policy			Authority to Act for		
Space Transportation System			Lines of Succession		
Nonsensitive Position, Investigative Requirements for	1610		Committee	1152	
North Atlantic Treaty Organization, Information Loss/Compromise	1620		ROLES & RESPONSIBILITIES:		
Notaries Public	9600		Accident/Mission Failure	8621	
Notices, NASA (Federal Register)	1412		GIDEP Utilization	5310	
NOTIFICATION AND ALERT SYSTEM			Organization	1102	
Normal Operations	1590		Program Planning	1102	
Officials, Public Appearances By ...	1384		Program Formulation and Review ...	7040	
Special Alert	1590		Scientific Information	2200	
Notification of Personnel Action	3200		Technical Publications	2220	
... ALSO SEE "Personnel" ...			COMMERCIAL PROGRAMS		
NSSDC (National Space Science Data Center)	8030		Assistant Administrator:	1103	
NSTL (National Space Technologies Laboratories) Roles/Responsibility .	1107		Authority to Act for		
... ALSO SEE "Field Installations" ...			Role & Responsibilities		
-----			Organization Chart		
			HEADQUARTERS OFFICES ... SEE SPECIFIC OFFICE ...		
			MANAGEMENT		
			Associate Administrator for:		
			Authority to Act for	1102	
			Authority to Approve Employment		
			Ceilings	3510	
			Lines of Succession	1102	
			NASA Council	1152	
			Responsibilities	1102	
			Federal Register	1412	
			Organization Chart	1102	
			Position Management Program	3510	
			Privacy Act of 1974	1382	
			Role & Responsibility	1102	

	Index No.	NRS No.		Index No.	NRS No.
OFFICE OF CONTINUED:			OFFICE OF CONTINUED:		
PERSONNEL MANAGEMENT (OPM)			SPACE TRACKING AND DATA SYSTEMS		
Delegation of Authority	3510		Associate Administrator for:	1102	
Position Classification			Authority to Act for		
Responsibilities			Position Objectives		
Experts/Consultants Employment ...	3304		Responsibilities		
Personnel Transfer/Travel	9710		Committees and Boards	1152	
Conditions of			Communications Responsibilities ..	2520	
Limitation of			GSFC Responsibilities	1107	
PROCUREMENT			Organization Chart	1102	
Director, Authority to Act for ...	1103		Scientific/Technical Information		
Power/Authority	5101		Authority For	2220	
Responsibilities:			Support:		
CAS Administration/Overhead			Reimbursable Launches of Non-U.S.		
Monitoring Program	5130		Government Spacecraft	8410	
Description of	1103		Space Systems, Termination	8640	
Federal Register Documentation	1412		Unmanned Space Flight Projects .	8430	
Policy Information	5100		Officials, Public Appearances By	1384	
Priorities	5100		OMB (Office of Management & Budget) ...	1323	
University Projects	8310		OPERATIONS		
Federal Register Publication			Accident/Mission Failures		
Officer	1412		Investigation, Documentation	8621	
Organization Chart	1103		Directive (OD)	8610	
Pricing Division	5131		Launch Contracts and Agreements	8610	
SMALL AND DISADVANTAGED BUSINESS			Mission Objectives & Success Rating		
UTILIZATION			Non-U.S. Government Reimbursable		
Policy	5119		Launches		
Roles and Responsibilities	1103		Software Management	2410	
SPACE FLIGHT (OSF)			Space Systems Termination	8640	
Associate Administrator for:	1102		Space Transportation System		
Authority to Act for			Reimbursements	8610	
Line of Succession for			STS Support Requirements		
Position/Objective			Requirements (OR)		
Responsibilities:			OPM (Office of Personnel Management)		
General	1102		Responsibilities	3510	
GIDEP Utilization	5310		... ALSO SEE "Office of" ...		
NASA & NASA-Related Payloads .	8610		OR (Operations Requirements)	8610	
STS Security	8610		Organic Contamination,		
Committee Memberships	1152		Lunar & Planetary	8020	
GSFC Responsibilities	1107		... ALSO SEE "Contamination Control" ...		
JPL Responsibilities	1102		ORGANIZATION		
Organization Chart	1102		CHART:		
SPACE SCIENCE AND APPLICATIONS (OSSA)			Agency	1101	
Associate Administrator for			HQ Program Offices Organization ..	1102	
Authority to Act for	1102		HQ Staff Office Organization	1103	
Responsibilities:			Committees, Boards, Councils, Panels	1150	
Mission Failure Reports	8621		FIELD INSTALLATIONS	1107	
Reliability and Quality	5310		Ames Research Center	ARC	
Roles & Responsibilities	1102		Goddard Space Flight Center	GSFC	
Committees and Boards	1152		Johnson Space Center	JSC	
GSFC Responsibilities	1107		Kennedy Space Center	KSC	
Investigations/Announcements of			Langley Research Center	LaRC	
Opportunity Process	7100		Lewis Research Center	LeRC	
Mission Failure Investigations and			Marshall Space Flight Center	MSFC	
Reports	8621		National Space Technology	NSTL	
Organization Chart	1102		Laboratories		
Scientific/Technical Information			HEADQUARTERS OFFICES:		
Authority for	2220		Aeronautics and Space Technology		
			Role & Responsibility	1102	
			Commercial Programs	1103	
			Comptroller		
			Equal Opportunity Programs		
			External Relations		
			General Counsel		
			Inspector General		
			Legislative Affairs		

	Index No.	NRS No.		Index No.	NRS No.
ORGANIZATION CONTINUED:			PATENTS CONTINUED:		
Management	1102		Licensing, NASA Inventions:	5127	
Procurement	1103		Appeals/Litigation		
Space Flight	1102		Communications Address		
Space Science and Applications			Considerations on		
Space Station			Definitions		
Space Tracking and Data Systems			Administrator		
Lines of Succession:			Government		
Administrator	1162		Invention/Practice of		
Policy	1160		Nonexclusive/Exclusive		
Responsibilities (Agency-wide),			Application for		
Structure and Changes	1120		Practical Application for		
Statement of Organization and			Processing of Applications for		
General Information	1120		Publication of		
Terminology/Definitions	1132		Royalites/Fees		
Orientation, Employee	1900		Special Invention		
... ALSO SEE "Personnel" ...			Types of		
OSF (Office of Space Flight)			Management Directives	1410	
Responsibilities	1102		Recommendation/Review for		
... ALSO SEE "Office Of" ...			Inventions & Contributions Board .	1170	
OSSA (Office of Space Science and			Redelegation of Authority For	2000	
Applications) Responsibilities	1102		Waiver	5127	
... ALSO SEE "Office Of" ...			Pay Administration	3550	
OSTDS (Office of Space Tracking and			... ALSO SEE "Personnel" ...		
Data Systems) Responsibilities	1102		PAYLOAD SPECIALIST (Operations)	8651	
... ALSO SEE "Office Of" ...			Definitions		
Outplacement Program	3250		Responsibilities		
Outside Awards	3451		Selection		
Overhead Monitoring Program	5131		... ALSO SEE "Astronauts" ...		
Overtime Policy	3550		PAYLOADS		
-----			Classification Of	8010	
***** p *****			Launch Preparation	1107	
PAD (Project Approval Document)	7120		Nonscientific	8610	
Page and Reprint Charges, Technical			Small Self-Contained	8610	
Information Documents	9280		Performance Data, Contractor		
Panels	1150		Reporting of	9501	
... ALSO SEE "Committees" ...			Performance Evaluation Board,		
PARTS AND MATERIALS			Caltech/JPL	1152	
Basic Policy	5320		PERSONAL		
Parts Steering Committee	1152		INJURY		
Problem Reports (Alerts)	5310		Reporting and Analysis	1700	
Standard Parts	5320		Tort Claims	2080	
Test Data	5310		Property Damage	2080	
Parts Steering Committee	1152		Property Disposal Manual	4300	
PATENTS			PERSONNEL		
Assistant General Counsel			Absence and Leave	3630	
Responsibilities	2000		Action Form, Request for	3280	
Foreign Program:	5127		ADVERSE ACTIONS (General)	3750	
Licensing Regulations			Adverse Actions	3752	
Government License			Appeals Systems Manual	3771	
Patent Rights Enforcement			Responsibility to Act	3752	
Policy/Procedures			Alcohol and Drug Abuse Program	3792	
Types, Terms and Conditions			Allowances (General)	3590	
			Appeals Systems Manual	3771	
			Attendance	3600	
			Awards	3451	
			Career Counseling	3250	
			Career Development (Training)	3410	
			Charity Drives	3940	
			Civil Service Commission (CSC)		
			Responsibilities	3510	
			Classification Act System	3531	
			Classification, Position	3500	
			Contributions	3940	
			Credit Unions	3950	

	Index No.	NRS No.
PERSONNEL CONTINUED:		
Detailees	3307	
Military Personnel	3280	
Development of Statistics	3292	
Direction and Control of the Personnel Program	3270	
DIRECTOR OF:	1102	
Functions		
Responsibilities		
Discipline	3751	
EMPLOYEE		
Conduct, Standards Of	1900	
Development (Training)	3410	
Grievances, Responsibility to Act On	3771	
Investigations	3736	
Management Relations	3711	
Orientation	3711	
Organizations and Activities	3712	
Performance and Utilization	3400	
Recognition and Incentives	3450	
Responsibilities and Conduct	3735	
Services To (General)	3790	
Employment (General)	3300	
EQUAL EMPLOYMENT OPPORTUNITY:		
Policy	1103	
Responsibility For	3713	
Minority Group Statistics System ..	3713	
Experts and Consultant Employment ..	3304	
Furloughs	3715	
Grievances, Responsibility to Act On	3771	
Health, Occupational	1800	
Incentive Awards	3451	
Inspections, Surveys and Audits	3273	
INSURANCE:		
Annuities	3800	
Injury Compensation	3810	
Insurance (General)	3800	
Group Health	3890	
Group Life	3870	
Old Age and Survivors	3832	
Retirement	3831	
Job Retention	3350	
Leave	3630	
Management, Personnel	3250	
MILITARY:	3280	
Assignments to NASA		
Requests for Extensions of Responsibility for		
Awards/Recommendations		
Detailing to NASA		
Evaluation Reports		
Mobility (Developing Policy, Procedures and Standards)	3271	
Mobility Agreements Under Title IV ..	3334	
Mobility, Procurement Career		
Development Program Guide	3410	
NONDISCRIMINATION:	3713	
Equal Opportunity Programs		
Responsibility for		
Minority Group Statistics System		
Responsibilities for		
Nondisciplinary Separations, Demotions, and Furloughs	3715	
Oaths of Office	3311	
Old Age and Survivors Insurance	3832	
Orientation, Employee	3711	
Overseas Allowances and Post Differentials	3592	
Overseas Employment	3301	
Pay Administration	3550	

	Index No.	NRS No.
PERSONNEL CONTINUED:		
Pay Rates and Systems	3530	
Rate Rule, Application Of	3530	
Performance Evaluation (Appraisals).	3430	
Personnel Management	3250	
Personnel Management Information System (PMIS)	3291	
Personnel Programs Division, Responsibilities	1102	
PERSONNEL RECORDS AND PROCESSING ...	3290	
Personnel Reports	3291	
Development of Statistics	3292	
Records and Files	3293	
Release of Personnel Information ..	3294	
Personnel Forms and Documents	3295	
Processing Personnel Actions	3296	
Personnel Relations and Services ...	3700	
Personnel Transfer/Travel	9710	
Placement (Employment - General) ...	3300	
Political Activities of Federal Employees	3733	
Position Classification, Pay, and Allowances	3500	
Position Classification and Job Evaluation	3510	
Position Control	3312	
Position Management Program	3510	
Power of Appointment and Removal ...	3311	
Premium Pay	3550	
Promotion and Internal Placement ...	3335	
Recruitment, Selection, and Placement	3330	
RESPONSIBILITIES:		
Employee	3735	
Office of Personnel Management ...	3510	
Pay/Position Classification	3510	
Retirement	3831	
Roles and Responsibilities	1102	
Savings Bonds, U.S.	3960	
Senior Executive Service (SES)	3100	
Services to Employees	3790	
Social Security	3830	
Space Flight Participants	3970	
Subsistence, Quarters, and Laundry ..	3593	
Suggestion System, Employee	3452	
Suitability and Conduct	3730	
Temporary and Indefinite Employment	3316	
Time and Attendance	3600	
Training (Employee Development)	3410	
TRANSFERS		
NASA	3340	
OPM (Office of Personnel Management)	3510	
Personnel Transfer/Travel	9710	
Conditions of Limitations of		
Travel, Employment Connected	3571	
Uniforms	3594	
Veteran's Preference	3211	
Petitions for Patent Waiver	5500	
Philatelic Activities	1380	
Physical Security Handbook	1620	
PID (Program Introduction Document) ...	8610	

	Index No.	NRS No.		Index No.	NRS No.
Placement, Personnel	3300		PRINTING:	1490	
PLANETARY			Color		
Cartography	7100		Contract/Grant Documentation		
Contamination Control	8020		Copyrighted Material		
Programs, Responsibility for	1102		Covers, Authors' Name on		
Planning and Program Integration	1152		Definitions:		
PMIS (Personnel Management Information System)	3291		Binding		
Policies, Implementation of	1410		Column-one Equipment		
Policy Analysis	1152		Duplicating		
POLLUTION			Duplicating Center		
Air/Water, Prevention, Control and Abatement	8800		Printing		
Federal Water Pollution Control Administration (FWPCA), Regional Offices	7400		Commercially Procurable		
... ALSO SEE "Environmental" ...			Federal		
POP (Program Operating Plan) [Budget Administration]	7400		Printing Plant		
Position Classification, Pay, and Allowances Handbook	3500		Production Unit		
Pay Administration:			Equipment		
Classification Act System,			Identification of Publications		
Responsibility to Adjust	3531		Illustrations		
Step & Quality Increases	3531		Imprint		
Overtime Policy	3550		Joint Committee on		
Premium Pay	3550		MANAGEMENT PROGRAM:		
Rate Rule, Application of	3530		Policy		
Responsibilities	3510		Regulations/Standards for		
Uniforms	3594		Responsibility for		
... ALSO SEE "Personnel" ...			Nonpublic Business		
POSITION MANAGEMENT PROGRAM:	3510		Page and Reprint Charge	9280	
Definition			Policy	1490	
Policy			Procedures for		
Responsibilities			Regulations		
PRD (Program Requirements Document) ...	8610		Reproduction, Unlawful		
Premium Pay	3550		Responsibility for		
PRESENTATIONS			Seal and Insignia, NASA Official		
Scientific and Technical	2200		Spines, Titles On		
Delegation of Authority			Standards/Specifications		
Limitations On			PRIVACY ACT OF 1974		
Reporting On			Agency Records, Public Access	1382	
Graphics Services	1520		Information Processing, Privacy and		
Visual and Graphic, Guidelines for .	1430		Security of Data	2410	
Visual Aids Service	1521		Regulations	1382	
Presents (Foreign) Acceptance of	1030		Responsibility for	1382	
Pressue Vessels/Pressurized Systems ...	1710		Safeguarding Unclassified Record		
Pricing Data, Waivers on	5101		Systems	1620	
Printed Reports (Submission)	4100		Statements of Employment/Financial		
... ALSO SEE "Reports" ...			Interests	1900	
PRINTED WIRING BOARDS:	5300		PROCUREMENT (Contracts)		
Conformal Coating			Assistant Administrator for,		
Requirements For			Responsibilities	1103	
Staking			Buy America Act	5125	
			BY NEGOTIATION:	5115	
			Contractor Selection Publication		
			Debriefing of Unsuccessful		
			Companies		
			Headquarters Selection Officials		
			Source Evaluation Board Handbook		
			(SEB)		
			Career Development Program Guide ...	3410	
			Certification Process	1240	
			Competition	1210	
			Contract Cost Principles and		
			Procedures Contractor IR&D, NASA		
			Involvement	5131	
			Delegation of Authority:	5101	
			Field Installations		
			Headquarters Administration		
			Division		
			Headquarters Contracts and		
			Grants Division		

	Index No.	NRS No.		Index No.	NRS No.
PROCUREMENT CONTINUED:					
Evaluation Procedures	1240		Promotions	3335	
Federal Acquisition Regulation			PROPERTY (AND SUPPLY):	4310	
Supplement	5101		Definitions		
Information Processing Resources: .	2410		Appropriation		
ADPE Acquisition			Excess Personal Property		
Software Acquisition			Personal Property		
Intern Program	3410		Disposal, Foreign Personal/		
Legal Review:	5101		Personal Excess	4300	
Policy			Employee Use	1900	
Requirements			Equipment Management	4000	
Responsibilities			Inventory Control System	4100	
Monitoring	1240		Lost/Damaged/Destroyed, Survey for .	4200	
Priorities Authority	5101		PERSONAL:		
Recoupment Policy	5127		Claim Settlement:	2080	
Regulations	5100		Claimants, Definition of		
Requests	5101		Claims, Allowable/Unallowable		
RESPONSIBILITIES:			Computation of Allowance		
DIRECTOR (of Procurement)			Delegation of Authority for	2000	
Authority to Act for	1103		NASA, Against	2080	
Federal Register Publication			NASA Employees, Against		
Officer	1412		Recovery from Third Parties		
Organization Chart	1103		Settlement Official,		
Power/Authority	5101		Responsibility of		
Pricing Division	5131		Supporting Evidence for		
CAS ADMINISTRATION / OVERHAUL			Time Limitations		
Monitoring Program	5131		Excess	4300	
Description of	1103		Exchange or Sale of		
Federal Register Documentation .	1412		Foreign Excess, Disposal of		
Policy Formation	5100		Non-NASA Annual Report		
Priorities	5101		Non-NASA Excess:	4310	
University Projects	8310		Policy		
Spinning Solid Upper Stages	8610		Procedures for		
Telecommunications Services	2530		Utilization of		
Productivity	1270		Report Requirements	4300	
PRODUCTIVITY AND QUALITY ENHANCEMENT ..	1270		Surplus	4300	
Delegation of Authority			Tort Claims	2080	
Policy			Procurement Requests	5101	
Responsibilities			Property Disposal Officer/Review		
PROGRAM(s)			Board	4300	
Agency Sponsored	7000		REAL:		
Budget Formulation and Execution ...	1103		Acceptance Of	8800	
Facilities, Management & Operation .	8800		Accountable Officer	7232	
Formulation	7000		Acquisition	8811	
Introduction Document (PID)	8610		Approval		
Management	8000		Relocation Assistance, Displace		
Operating Plans (POP)	7400		Persons		
Operations	8600		Army Corps of Engineers, Leases ..	8812	
Requirements Document (PRD)	8610		Leaseholds, Permits, and		
Support Plan (PSP)	8610		Licenses, Services for	8813	
PROJECT:	7120		Real Property under Management		
Approval Document (PAD)			Control	8800	
Initiation Agreement			Classification of	8800	
Management Principles			Information Requirement for	8811	
Planning and Approval			Procedures for	8811	
Project Formulation & Definition			DEFINITION:		
Project Initiation Agreement			Displaced Persons	8811	
Policies			Easement	8800	
Productivity and Quality and			Excess Real Property		
Enhancement	1270		Holding Agency		
NAMES:	7620		Installed Property		
Designation Committee			Institutional Director	8813	
Identification/Official Designations			Interest in Real Property	8813	
Planning (Research and Development			Leased Property	8800	
Planning & Approval - Major R&D) .	7121		Leasehold Improvements	8800	
Resources Management:					
Allocation and Control	7000				
Information Processing	2410				
Responsibilities	7120				
Space Flight Programs	7120				

	Index No.	NRS No.		Index No.	NRS No.
PROPERTY (AND SUPPLY) CONTINUED:			PUBLICATIONS CONTINUED:		
Real Property	8813		Historical	1070	
Real Property Accountable			Scientific and Technical:	2220	
Officer	8800		Approval Presentation/Publication		
Real Property Under Management			Delegation of Authority		
Control	8800		Limitations		
Delegation of Authority	8810		Criteria for:		
Document Depository	8800		Format		
Facility Planning and Project			Policy		
Coordination			Release of		
Inventory of			Reporting on		
LEASEHOLDS, PERMITS AND LICENSES: .	8813		Special/Proposals		
Army Corps of Engineers,			Types/Characteristics		
Services			Contractor Reports		
Delegation of Authority for			Special Publications		
Restrictions On			Technical Memorandums		
Record Files of	8800		Technical Notes		
Records, Examples of			Technical Reports		
Reporting Requirements for			Technical Reprints		
Transfer or Disposal of	8813		Technical Translations		
Scrap/Salvage, Disposal of	4300				
SOURCES OF SUPPLY:			-----		
FEDSTIP/MILSTRIP Activity			***** Q *****		
Address Codes	4050				
Supply Cataloging	4410		QUALITY		
User Charges, Leased/Sold	9080		ASSURANCE		
Utilization and Maintenance of			Aeronautical and Space Systems,		
Federal Cataloging	4410		Inspection/Provisions for	5300	
... ALSO SEE "Equipment" ...			Contractors, Aeronautical and		
Protective Clothing and Equipment	1700		Space Systems	5300	
PSP (Program Support Plan)	8610		General Provisions	5310	
PUBLIC			Government Agencies, Provisions		
AFFAIRS:			for	5300	
Accident/Mission Failure			Government Supplier Operations,		
Investigation	8621		Management of	5330	
Conferences	1389		Legislative/Presidential		
DIRECTOR OF:			Decisions for	1410	
Accident/Mission Failure			NASA-DoD Relationships	5311	
Investigation	8621		Reliability, and	5300	
Lines of Succession	1103		Responsibility for	5300	
Responsibilities	1103		Safety & Health	8710	
Freedom of Information (FOIA)	1382		Contamination Control	5340	
Foreign Government Awards	1395		Increases (Personnel)	3531	
Nondiscrimination Policy	1380		Policies and Programs	5330	
Organization Chart	1103		Reliability Policies and Programs ..	5320	
Policy	1380		Soldered Electrical Connections	5300	
Release of Information	1382		Space Shuttle Program	5300	
Reporting Requirements	1382		Status Stamping Requirements	5330	
APPEARANCES			QUARANTINE	8020	
Astronauts/Officials	1384		Contamination and Control		
Exhibits Program	1387		Definition of		
Information Publications,			Extraterrestrial Exposure		
Educational and Public	1392		Period of		
Motion Picture, Television, and			Policy		
Radio Productions	1394		Provisions for Unmanned Extra-		
Speaking Engagements, Acceptance .	1385		terrestrial Missions		
PUBLICATIONS			-----		
Definitions	2220		***** R *****		
Educational and Public	1392				
Distribution			R&D (Research and Development)	7000	
Local Community, Definition			R&PM (Research and Program Management).	7000	
Policy				8000	
Preparation			Radiation, Protection From	1043	
Production	1380				
Publication	1392				

	Index No.	NRS No.		Index No.	NRS No.
RADIO			Recruitment, Personnel	3330	
Communications, Preparation of	1394		... ALSO SEE "Personnel" ...		
(FREQUENCY TRANSMISSION:			Reference Publications	2220	
Acquisition of Communications and			... ALSO SEE "Publications" ...		
Electronic Equipment	5117		Regional Preparedness Committees	1040	
Control of:	2570		... ALSO SEE "Emergency" ...		
Policy			REIMBURSEMENT OF COSTS		
Responsibility for			Launch Vehicles and Other Space		
Security Classification			Flight Services	8610	
Management of:	2570		Space Act Agreements, Delegation		
Definition of			of Authority	1050	
Policy			Space Transportation System		
Procedures for			Services (STS)	8610	
Responsibility for			Foreign Users		
Radiological Health	1043		Nonscientific Payloads		
Ready Reserve Personnel, Screening of,			Non-U. S. Government Users		
Responsibility	3303		U. S. Government Users		
REAL PROPERTY AND FACILITIES			Tracking and Data Relay Satellite		
Land and Improvement:			System (TDRSS)	8410	
Acquisition by Transfer	8811		RELIABILITY AND QUALITY ASSURANCE		
Relocation Assistance, Displaced			Basic Policy	5300	
Persons	8811		Microbially Controlled Environments.	5340	
Responsibility for	8810		Parts/Materials/Safety Problem		
Location Priority	8800		Reporting	5310	
Physical Accountability, Recording,			Printed Wiring Boards & Assemblies .	5300	
Reporting	8800		Provisions		
Recording Devices (Conversations/			Responsibilities		
Investigations/Meetings)	2530		Soldered Electrical Connections		
Conditions for			Requirements		
Policy On			Space Shuttle Program		
RECORDS			Stamping Requirements	5330	
Control Schedules	1441		Relocatable Buildings	8811	
Disposition	1441		Remote Sensing, Sale of Data,		
Files, Uniform Index	1442		Delegation of Authority for	1050	
MANAGEMENT PROGRAM:	1440		RENTED VEHICLES		
Content/Implementation			Claims for Collision/Upset Damage ..	9720	
Definitions:			Leased/Rented Vehicles	6770	
Non-Record Materials			REPORTING		
Official Files			Automatic Data Processing Equipment		
Private Records			Management	2410	
Records			Illegal or Unethical Conduct	9950	
Objectives			Labor-Management Program Actions ...	3711	
Responsibilities			REPORTS		
VITAL:	1440		Automatic Data Processing Equipment		
Definitions:			Management	2410	
Emergency Operating Records			CONTROL:	1415	
Rights and Interest Records			Definitions:		
Vital Records			Reporting Systems		
Vital Records Protection Plan			Reports		
Operating Forms			Reports Control Officer		
Policy			Management System:		
Reporting			Clearance Requirements of		
Responsibilities			Definitions:		
Selection			Certifying Officer		
Storage			Contractor/Public Reports		
RECORDS AND REPORTS			External/Internal Reports		
Aerospace Safety Advisory Panel ..	1156		NASA-Wide/Inter-Installation		
Auditing	9910		Reports		
Management Program, Records	1440		Office of Primary Responsibility		
Management Program, Reports	1415		(OPR)		
Public Access	1382				
Release to GAO	1325				
Policy/Ground Rules for					
Response to Requests for					
Special Cases on					
Statutory Authority for					
Space Science and Applications					
Steering Committee	1152				

	Index No.	NRS No.		Index No.	NRS No.
REPORTS CONTINUED:	1415		RESIDENCE ABROAD REQUIREMENT, WAIVER OF: Policy Procedures for Requests for Responsibility for	1370	
Person Plan Report Form Reports Control Manager (RCM) Reports Control Officers (RCO) /Representatives (RCR) Reports Manager/Inventory Reports/Reporting Systems Used General Information On Guidelines for Policy Procedures Public Reports for Recommended Procedures for Responsibility for			Resident Legal Office, JPL	2000	
Illegal or Unethical Conduct	9950		RESOURCES		
Information and Control System	2340		Allocation/Control of	7000	
Labor-Management Program Actions ...	3711		Authority Allocation System	7830	
Management Handbook	1415		Budget Administration Manual	7400	
NASA Facilities Identified During the Past Reporting Period as Being Not Needed or Underutilized	7234		Budget Formulation and Execution Responsibility	1103	
Personal Property Provided to Non- Federal Organizations	4310		MANAGEMENT:		
Supply Activity, Preparation and Submission	4100		Allocation and Control	7000	
Reprint Charges, Technical Information Documents	9280		Information Processing	2410	
Reproduction Machines (Management of) .	4200		Internal Control System	1200	
... ALSO SEE "Printing" ...			RESTRICTED DATA		
Request for Personnel Action Form	3280		Certification for Access to	1630	
Request for Proposal (RFP)	5115		Definition of	1620	
REQUIREMENTS FOR:			RETREATS, MANAGEMENT:	1200	
Crimping and Wire Wrap	5300		(NASA-Sponsored) Background of Definitions:		
Packaging, Handling, and Transportation	6000		Management Conference Retreat Policy for Private Facilities, Use of Approval for Reporting on		
Printed Wiring Boards	5300		Returnable Containers	4060	
Soldered Electrical Connections	5300		Revolvers	1620	
RESEARCH			Roads, Naming of (NASA Installations) .	1022	
Advanced Research and Technology ...	7100		Rocket Motors, Shipment of Responsibility	1152	
Aeronautics and Space Programs	5300		... ALSO SEE "Transportation" ...		
Cooperative Projects	1362		ROLE AND RESPONSIBILITIES		
Development, and	7400		... ALSO SEE "Field Installations" ...		
Development Planning and Approval			Aeronautics and Space Technology ...	1102	
Definitions	7120		Associate Deputy Administrator	1103	
Major R&D Projects	7121		Budget Operations Division		
Major System Acquisitions	7100		Chief Engineer		
Phased Project Planning and Approval	7100		Chief Scientist		
Policies	7120		Commercial Programs		
Responsibilities			Comptroller		
Space Flight Programs			DoD Affairs Division		
Human Research	7100		Equal Opportunity Programs		
Investigations, Responsibility	1152		External Relations		
Program Management Appropriations ..	7400		Financial Management Division		
Technology Advisory Council (and) ..	1156		General Counsel		
Technology Objectives and Plans (RTOP)	7100		Headquarters Administration Division	1102	
			Industrial Relations	1102	
			Inspector General	1103	
			International Affairs Division		
			Legislative Affairs		
			Logistics and Security Division	1102	
			Management, Office of		
			Management Support Office	1103	
			Personnel Programs Division	1102	
			Procurement	1103	
			Public Affairs		
			Small & Disadvantaged Business Utilization Office		

	Index NRS No. No.	Index NRS No. No.
ROLE AND RESPONSIBILITIES CONTINUED:		
Space Flight	1102	
Space Science and Applications		
Space Station		
Space Tracking and Data Systems		
Television Development Division	1103	
RTAC (Research and Technology Advisory Council)	1156	
RTOP Management System (Research and Technology Objectives and Plans) ...	7100	

***** S *****		
SAA (Special Achievement Award)	3451	
SAF-Alert Reporting System	5310	
SAFETY		
Accident/Mission	8621	
Aerospace Safety Advisory Panel	1156	
MANUAL:		
Basic Safety	1700	
Fire Protection		
Mishap Investigation		
Occupational Safety and Health ...	8720	
System Safety	1700	
Materials/Regulations	8060	
Occupational Safety and Health Programs	8720	
PAYLOADS		
Non-Scientific	8610	
Safety Policy and Requirements ...	1700	
Policy	8710	
Pressure Vessels/Pressurized Systems	1710	
Problems, Reporting of	5310	
Protective Clothing/Equipment for ..	1700	
Reliability and Quality Assurance ..	5300	
Responsibility for	8710	
Safety and Health Programs	8720	
Space Shuttle Program	5300	
STANDARDS:		
Definition of	8720	
Distribution/Availability		
Emergency		
Identification of		
NASA-Originated/Adopted		
Objectives of		
Procurements for		
Responsibilities		
STS Payloads, Safety Policy and Requirements	1700	
Salaries	3530	
Sampling (Statistical Sampling Technique)	9630	
SC (Statement of Capability)	8610	
SCIENTIFIC AND TECHNICAL INFORMATION		
Definition	2200	
Distribution and Availability		
Categories	2200	
Document Availability Authorization: Definitions	2200	
Policy		
Responsibilities		
GIDEP	5310	
Policy	2200	
Presentation/Publication, Authority for/Definitions	2200	
Responsibilities	2200	
SEAL		
NASA	1020	
Printing or Use of	1490	
SEB (Source Evaluation Board)	5115	
Secret Information (Control of)	1630	
... ALSO SEE "Classified" ...		
SECURITY		
AREAS:		
Access to		
Definition of		
Establishment/Maintenance/Revocation of		
Implementation of		
Sign for		
Violation of		
Badges (Identification)	1620	
Classified Material, Access Control.	1630	
Classification Matters	1640	
Classification Program Committee ...	1152	
Classification Program Handbook (Background/Objectives)	1640	
Control of Classified Information ..	1630	
Data Processing	2410	
DECLASSIFICATION/DOWNGRADING:		
After 30 years		
Burden of Proof		
Exemptions		
Restricted Data		
Review Request/Requirements		
Schedule		
DEFINITIONS:		
Classification		
Classified Information		
Declassification		
Document		
Downgrading		
Formerly Restricted Data		
Information		
Material		
Official Information		
Original Classifier		
Restricted Data		
Security Classification Categories		
Degree of Protection	1640	

SECURITY CONTINUED:	Index No.	NRS No.	SECURITY CONTINUED:	Index No.	NRS No.
EDUCATION:	1620		Investigations:	1610	
Minimum Standards/Procedures for			Requirements		
Responsibilities for			Updating		
Support Material for			Policy		
Termination Interview			Reemployment		
GUIDELINES:	1640		Reports Status		
Exceptional Cases			Security Hearing Board:		
Follow-on Actions			Membership of		
Non-Documentation Classification			Procedures of		
Official Assistance			Suspensions:		
Open Publication			Clearance		
Proprietary Information			Employment		
State-of-the-Art/Intelligence			Physical Security	1620	
Unprocessed Data			PRINCIPLES/CONSIDERATIONS:	1640	
INDUSTRIAL:	1650		Classification Reasons		
Classified Contract:			Combination/Interrelation/		
Award of			Compilation		
Security Requirements for			Dissemination		
Contractor Facility Clearance:			Information Identification		
Determination of			Internal Effect		
Request for			Restricted Data		
Definitions:			Responsibilities		
Access			Security Classification Program		
Classified Contract			Committee	1152	
Classified Information			Security Enhancement Program:	1620	
Cognizant Security Officer			Provisions		
Contractor			Responsibilities		
Facility Security Clearance			Space Transportation System	8610	
"Need to Know"			STORAGE EQUIPMENT:	1620	
Security Classification Officer			Custodial Responsibilities of		
Responsibility for			Inspection of		
INFORMATION PROCESSING:	2410		Locking Devices for		
Computer Security Program			Restriction in Use of		
Office Automation Systems			Surveys	1690	
Privacy, Integrity, and Security			VIOLATIONS:	1620	
of Data			Action Required in Event of		
Security Assurance			Possible Loss or Compromise of		
Investigations	9950		NATO Information		
LEGAL BASIS:			Emergency Action/Reporting		
Executive Orders 11652 & 10865 ...	1640		Requirements for		
Space Act of 1958	1640		Security Officer Actions for		
NASA Policy	1640		Selection of Personnel	3300	
News Releases	1380		... ALSO SEE "Personnel" ...		
Officer Responsibilities	1620		Selling to NASA	5100	
PERSONNEL:	1610		... ALSO SEE "Procurement" ...		
Classified Information, Alien			SENIOR EXECUTIVE SERVICE (SES)	3100	
Access to			Definitions:		
Clearance, Suspension of			Career Reserved Position		
Criteria for			General Position		
Cryptographic Information, Access			Senior Executive		
Definitions:			Senior Executive Service Position		
Access			Executive Position Managers		
Alien			Management of		
Classified Information			NASA Executive Resources Board		
Computation of Time			NASA Performance Review Board		
Cryptographic Information			NASA SES Executive Position Managers		
Employee			Responsibilities		
Full Field Investigation			Senior Executive Committee		
Immigrant Alien					
National Agency Check					
National Agency Check and					
Written Inquiries					
Sensitive Position					
Delegation of Authority					
Handbook					

	Index No.	NRS No.		Index No.	NRS No.
SENSITIVE POSITION	1610		SOFTWARE		
Critical:			Management:	2410	
Definition of			Flight Projects		
Investigative Requirements for			U.S. Government Users		
Noncritical:			Resource Sharing		
Definition of			Soldering, Electrical Connections,		
Investigative Requirements for			Requirements	5300	
Service Contracts	5100		SOURCE EVALUATION BOARDS (SEB):	5115	
... ALSO SEE "Procurement" ...			Decision and Review Responsibility		
SERVICES			Handbook		
Commercial or Industrial	7410		Letter of Designation		
NASA:			Proceedings, Prevention of Improper		
Tracking and Data Relay Satellite			Disclosure of:		
System	8410		Policy		
User Charges	9080		Responsibility for		
SES Executive Position Managers	3100		Report Guidelines		
Shelf Life Program	4100		Secretary of		
Shelters (Fallout)	1043		Statement of Employment/Financial		
SHIPMENTS			Interests	1900	
Household Goods	9760		Statements of Work	5600	
Rocket Motors	9760		SOW (Statement of Work Handbook)	5600	
NASA Internal Committee for			SP (Special Publications)	2220	
Permits to Transport Rocket Motors	1152		SPACE		
SHUTTLE			Act of 1958	1640	
ASTRONAUTS:			Act Agreements:	1050	
Official Flight Kits	1900		Delegation of Authority for		
Personal Preference Kits	1900		Nonreimbursement of Costs		
Recruitment and Selection	3330		Reimbursement of Costs		
Landing Facility, KSC	6000		Applications Advisory Committee	1156	
PROGRAM:			Flight Experiments / Data Analysis .	8030	
Articles Carried on Flights/			Flight Services, Reimbursement for .	8610	
Authorization	1900		Hardware, Microbiological		
Communications, Voice	8610		Examination of	5340	
Flight Kits (Official)	1900		Investigations, Outside Proposals		
KSC Program Responsibilities	1107		For	8030	
Maintainability/Quality Provisions			Medicine Board (SMB) and		
Safety/Reliability	5300		Medicine Policy Board (SMPB)	1152	
NASA and NASA-Related Payloads ...	8610		Systems, Termination of	8640	
Personnel Reliability	8610		SPACE FLIGHT:		
REIMBURSEMENT:	8610		Audit Reports	9920	
Foreign Users			Contamination Control:	8020	
Nonscientific Payloads			Lunar and Planetary		
Non-U.S. Government Users			Outbound Spacecraft		
U.S. Government Users			Medical Support:	8900	
Sick Leave	3630		Functional Relationships		
SMALL AND DISADVANTAGED BUSINESS			Implementation Procedures		
UTILIZATION, OFFICE OF			Objectives		
Policy	5000		Responsibilities		
Roles and Responsibilities	1103		Flight Tests		
Smallpox Vaccination Certificate	1820		Ground Test Planning		
SMB (Space Medicine Board)	1152		Occupational Medicine		
SMPB (Space Medicine Policy Board)	1152		Test Documentation		
			Requirements		
			OFFICE OF:	1102	
			Associate Administrator for:		
			Authority to Act for		
			Line of Succession		
			Position/Objective		
			Responsibilities:		
			General	1102	
			GIDEP Utilization	5310	
			NASA & NASA-Related Payloads .	8610	
			STS Security	8610	

	Index No.	NRS No.		Index No.	NRS No.
SPACE FLIGHT CONTINUED:					
GSFC Responsibilities	1107		SPACE TRANSPORTATION SYSTEM (STS)		
JPL Responsibilities	1102		Agreements:	8610	
Organization Chart	1102		Documentation		
Participants	3970		Management		
Program and Project Management: ...	7120		Articles Carried on Flights/		
Definitions			Authorization	1900	
Planning and Approval			Commander Authority	8610	
Policies			Duty-Free Space Articles	8610	
Responsibilities			Materials Disposal	4300	
Safety	1156		Medical Responsibilities	8900	
Software, Management of	2410		NASA and NASA-Related Payloads,		
			Utilization for	8610	
			Payload Specialists	8651	
SPACE SCIENCE (AND)					
APPLICATIONS, OFFICE OF:	1102		PAYLOADS:		
Associate Administrator for			Classification	8010	
Authority to Act for			Nonscientific	8610	
Responsibilities			Small, Self-Contained	8610	
GSFC Responsibilities	1107		Personnel Reliability	8610	
Investigations/Announcement of			Protection of		
Opportunity Process	7100		Spinning Solid Upper Stages,		
Organization Charts	1102		Procurement of		
Scientific/Technical Information,			Support Requirements		
Authority for	2200		Speaking Engagements, Acceptance of ...	1385	
Applications Steering Committee					
(SSASC)	1152		SPECIAL		
FLIGHT INVESTIGATIONS:	8030		Achievement Award (SAA)	3451	
Data Analysis			Publication (SP)	2220	
Data Dissemination					
Space Shuttle	8610		Spinning Solid Upper Stages (SSUS)	8610	
... ALSO SEE "Shuttle" ...			SSP (Sustained Superior Performance		
			Award)	3451	
SPACE STATION					
Office Of:	1102		SSUS (Spinning Solid Upper Stages)	8610	
Associate Administrator			Stamping Requirements	5330	
Authority to Act for					
Position Objectives			STANDARD(s)		
Responsibilities			Conduct for NASA Special Government		
Organization Chart			Employees (of)	1900	
			Conduct Handbook (of)	1900	
Space Systems and Technology Advisory			PARTS PROGRAM:	5320	
Committee	1156		Implementation		
			Policy		
			Voluntary	8070	
SPACE TRACKING AND DATA SYSTEMS					
Office of:	1102		Statement of Capability (SC)	8610	
Associate Administrator for			Statement of Work (SOW) Handbook	5600	
Authority to Act for			Step Increases	3531	
Position Objectives			Stores Stock Management	4100	
Responsibilities			STS (Space Transportation System)	8610	
Communications Responsibilities ..	2520		Suggestion Award	3451	
Scientific/Technical Information			Supervisor's Guide on Alcoholism	3792	
Authority for	2200		Supervisory Training	3410	
GSFC Responsibilities	1107				
Organization Chart/Relationships .	1102		SUPPLIES		
Support Operations:			Activity Report, Preparation and		
Responsibilities	8621		Submission:	4100	
Space Systems, Termination	8640		Instructions		
Unmanned Space Flight Projects .	8430		Procedures		

	Index NRS No. No.		Index NRS No. No.
SUPPLY AND EQUIPMENT MANAGEMENT		TECHNOLOGY	
Director:	4340	Export Control	2190
Responsibilities:		Recoupment Policy	5127
Foreign Excess Personal		Research Activity	7100
Property, Disposal of		RTOP Management System	7100
Materials/Precious Metals,		Transfer	2180
Recovery of	4300	Utilization:	2110
Equipment Management Manual	4200	Material	
Federal Catalog System	4410	Definition of	
Materials Inventory Management		Foreign Access to	
Handbook	4100	Responsibility for	
Property Custodian User's Guide	4200	TELECOMMUNICATIONS	
Reporting Requirements	4210	Delegation of Authority for	2530
Supply Cataloging	4410	Federal Telecommunications System	
Sources of Supply	4050	(FTS)	2520
(FEDSTRIP/MILSTRIP)		TELEPHONES	
Support Services	7410	Charges, Certification of	9090
Surplus Property	4300	Administrative Controls	9090
Surveillance, Electronic	2530	Long-Distance Calls	2540
Suspensions, Contractors	5101	Charges of	9090
Sustained Superior Performance Award		Maintenance	9090
(SSP)	3451	Personal	2540
SYMBOLS, OFFICIAL NASA:	1020	Procedures for	9090
Establishment/Technical Description		Recording/Interception of Calls: ...	2530
Astronaut Badges		Conditions for	
Flags		Policy	
Insignia		... ALSO SEE "Communication" ...	
Program Badges		TELEVISION	
Seal		Development Division, External	1103
Policy for Use of		Relations Office, Director:	
Violations of		Position Objectives	
SYMPOSIA		Responsibilities	
Classified Symposia	1620	Productions	1394
International Affairs	1360	... ALSO SEE "Motion Picture" ...	
Technical Symposia	1350	TORT CLAIMS	2080
System Safety Handbook	1700	Annual Report Requirements	
-----		Definitions:	
***** T *****		Chief Counsel	
Tardiness	3630	Claim	
Teaching, Employee	1900	Claimant	
TECHNICAL		General Counsel	
Facilities Catalog	8800	Filing Requirements	
Information Documents, Page and		Forms for	2082
Reprint Charges	2200	Government Property, Damage/Loss ...	2080
Memorandums	2200	Justice Department, Approval for	
Symposia, Participation in	1350	NASA, Against	
		NASA Employee, Against:	
		Motor Vehicle, Damage From:	
		Personal Injury	
		Personal Property	
		Procedures	
		Notification for Denial of	
		Settlement of:	
		Payment	
		Responsibility for	
		Supporting Evidence for	
		Time Limitations	
		U.S. Government, Against	

	Index No.	NRS No.		Index No.	NRS No.
***** U *****					
TRACKING AND DATA					
Acquisition	8400				
Relay Satellite System (TDRSS)	8410		U.S. Government Manual	1410	
Traffic Management Programs	6200		Unethical or Illegal Conduct, Investigation and Reporting of	9950	
... ALSO SEE "Transportation" ...					
TRAINING			Uniform Relocation Assistance Act, Real Property Acquisition	8811	
Employee:	3410		Uniform Files Index/Handbook (NASA) ...	1442	
Programs:			Uniforms	3594	
Continuing Education (CEP)			Union	3711	
Outside the U.S.			... ALSO SEE "Personnel" ...		
Supervisory			Universal Documentation System, DoD ...	8610	
Within the U.S.					
Transcription of Conversations/Meeting Policy on	2530				
Transoceanic Communications	2500		UNIVERSITY AFFAIRS		
... ALSO SEE "Communications" ...			Education:		
TRANSPORTATION			Exhibits Program	1387	
Aeronautical and Space Systems			Personnel Training/Development ...	3410	
Packing and Handling Requirements.	6000		Programs	1392	
Management Programs	6200		Foreign Travel, Approval	9720	
Motor Vehicle, Policy on	6720		Grants/Contracts, Termination of ...	8340	
Shuttle Landing Facility, KSC,			Projects, Funding of:	8310	
Responsibility for	6000		Definitions		
Travel, Authorization	9710		Procedures for		
			Responsibilities for		
TRAVEL			Relationships:	8320	
Regulations:			Guidelines		
Authorizations	9710		History		
Communist-Dominated Countries:			Policy		
Authorization:			Responsibilities		
Procedures	1620		University, Definition of		
Responsibility for	1620				
Communist Countries	1620		UNMANNED SPACE FLIGHT PROJECTS		
Delegation of Authority	9710		Quarantine/Provisions	8020	
Employee, Definition of	1620		Space Systems, Termination	8640	
Employee Information for			Tracking and Data Acquisition		
Policy On			Support:	8430	
Procedures for			Documentation System/Procedures		
Purpose of			Policy		
Security Officer/Actions			Responsibilities		
Definitions	1620		Upward Mobility Program / Handbook	3410	
Approval of	9710		USA (U. S. Army)	8811	
Change of, Guide for	9760		... ALSO SEE "Defense" ...		
Delegation of Authority	9710		USAF (U.S. Air Force)	8610	
Expenses	1900		... ALSO SEE "Defense" ...		
Foreign Currency, Use of:	9393		USDA (U.S. Department of Agriculture) .	8020	
Excess/Near-Excess			User Charges	9080	
Responsibility for			... ALSO SEE "Financial" ...		
Foreign	9710		Utility Systems, Identification of, Handbook	7320	
Medical Services	1820				
Reimbursable Arrangements	9710				
Rented Vehicles, Claims for					
Collision/Upset Damage	9730				
Treasury Department, U.S.	7400				
Trust Fund	7800				
Typewriters	4300				
... ALSO SEE "Property" ...					

	Index No.	NRS No.
UTILIZATION		
Disposal (and):	4300	
Disposal of Foreign Excess Property		
Exchange or Sale of Property		
Reporting of Excess		
Utilization of Excess Personal Property		
Maintenance of Federal Cataloging ..	4410	
(and)		
... ALSO SEE "property" ...		

		***** v *****
Vaccinations, Certificates of	1820	
Vendors, Returnable Container Control .	4060	
Ventilation, Laboratory and Industrial Manual	7320	
VISITORS		
Definition of	1620	
Foreign/Activities Coordination	1370	
Inspections:	1600	
Personal		
Personal Property		
Procedures for		
International Affairs	1370	
Processing/Control of:	1620	
Classified Visits		
Installation Cleared Personnel		
Roster		
Responsibility for		
Security Clearance for		
Unclassified Visit		
Public Affairs	1380	
Residence Abroad Requirements,		
Waiver of	1370	
VITAL RECORDS PROGRAM		
Definitions:	1440	
Emergency Operating Records		
Rights and Interest Records		
Vital Records		
Vital Records Protection Plan		
Operating Forms		
Policy		
Reporting		
Responsibility for		
Selection of		
Storage of		
Voluntary Standards	8070	

	Index No.	NRS No.
***** W *****		
Wage Borad Employees	3531	
Wage Committee	1156	
WAIVERS		
Advance Waiver Review Board	1152	
Cost and Pricing Data:	5101	
Delegation of Authority		
Foreign Government Contracts		
Reporting on		
Inventions and Contributions Board .	1170	
Patent Regulations (Procurement) ...	5127	
Residence Abroad Requirement	1370	
WALLOPS FLIGHT FACILITY (WFF)		
Airstrip Utilization by Non-		
Government Aircraft:	6000	
Definitions:		
Aircraft not operated for the		
Benefit of the Federal		
Government		
Certificate of Insurance		
Hold Harmless Agreement		
Official Business		
Use Permit		
User		
Wallops Station Airstrip		
Facility Availability		
Inflight Emergency, Procedures for		
Policy		
Unauthorized Use, Procedures for		
Utilization, Requests for		
GSFC Responsibilities	1107	
WBS (Work Breakdown Structures)	5610	
... ALSO SEE "Statement of Work" ...		
WHITE HOUSE OFFICE		
Correspondence From:	1450	
Definition of		
Information, Requests for		
Policy for		
Procedures for		
Replies to		
Responsibility for		
Wind Tunnels, Industrial Development Work	1300	
Wiretapping, Telephones	2530	
Wire Wrap, and Crimping Requirements ..	5300	
WIRING:		
Crimping		
Printed Boards		
Conformal Coating		
Staking		
Requirements		

	Index No.	NRS No.
WORK-RELATED INJURY COMPENSATION:	3810	
Definitions		
Policies		
Responsibilities		

Writing	1900	
---------------	------	--

***** y *****

Yellow Fever Vaccination Certificate ..	1820	
---	------	--



NASA SCIENTIFIC AND TECHNICAL INFORMATION FILES PRIMARY SUBJECT IDENTIFICATION CODES

AERONAUTICS

01 AERONAUTICS (GENERAL)
02 AERODYNAMICS
03 AIR TRANSPORTATION AND SAFETY
04 AIRCRAFT COMMUNICATIONS AND
NAVIGATION
05 AIRCRAFT DESIGN, TESTING, AND
PERFORMANCE
06 AIRCRAFT INSTRUMENTATION
07 AIRCRAFT PROPULSION AND POWER
08 AIRCRAFT STABILITY AND CONTROL
09 RESEARCH AND SUPPORT FACILITIES
(AIR)

ASTRONAUTICS

12 ASTRONAUTICS (GENERAL)
13 ASTRODYNAMICS
14 GROUND SUPPORT SYSTEMS AND
FACILITIES (SPACE)
15 LAUNCH VEHICLES AND SPACE
VEHICLES
16 SPACE TRANSPORTATION
17 SPACE COMMUNICATIONS, SPACECRAFT
COMMUNICATIONS, COMMAND AND
TRACKING
18 SPACECRAFT DESIGN, TESTING AND
PERFORMANCE
19 SPACECRAFT INSTRUMENTATION
20 SPACECRAFT PROPULSION AND POWER

CHEMISTRY AND MATERIALS

23 CHEMISTRY AND MATERIALS (GENERAL)
24 COMPOSITE MATERIALS
25 INORGANIC AND PHYSICAL CHEMISTRY
26 METALLIC MATERIALS
27 NONMETALLIC MATERIALS
28 PROPELLANTS AND FUELS
29 MATERIALS PROCESSING

ENGINEERING

31 ENGINEERING (GENERAL)
32 COMMUNICATIONS AND RADAR
33 ELECTRONICS AND ELECTRICAL
ENGINEERING
34 FLUID MECHANICS AND HEAT TRANSFER
35 INSTRUMENTATION AND PHOTOGRAPHY
36 LASERS AND MASERS
37 MECHANICAL ENGINEERING
38 QUALITY ASSURANCE AND RELIABILITY
39 STRUCTURAL MECHANICS

GEOSCIENCES

42 GEOSCIENCES (GENERAL)
43 EARTH RESOURCES AND REMOTE SENSING
44 ENERGY PRODUCTION AND CONVERSION
45 ENVIRONMENT POLLUTION
46 GEOPHYSICS
47 METEOROLOGY AND CLIMATOLOGY
48 OCEANOGRAPHY

LIFE SCIENCES

51 LIFE SCIENCES (GENERAL)
52 AEROSPACE MEDICINE
53 BEHAVIORAL SCIENCES
54 MAN/SYSTEM TECHNOLOGY AND LIFE
SUPPORT
55 SPACE BIOLOGY

MATHEMATICAL AND COMPUTER SCIENCES

59 MATHEMATICAL AND COMPUTER
SCIENCES (GENERAL)
60 COMPUTER OPERATIONS AND HARDWARE
61 COMPUTER PROGRAMMING AND
SOFTWARE
62 COMPUTER SYSTEMS
63 CYBERNETICS
64 NUMERICAL ANALYSIS
65 STATISTICS AND PROBABILITY
66 SYSTEMS ANALYSIS
67 THEORETICAL MATHEMATICS

PHYSICS

70 PHYSICS (GENERAL)
71 ACOUSTICS
72 ATOMIC AND MOLECULAR PHYSICS
73 NUCLEAR AND HIGH-ENERGY PHYSICS
74 OPTICS
75 PLASMA PHYSICS
76 SOLID-STATE PHYSICS
77 THERMODYNAMICS AND STATISTICAL
PHYSICS

SOCIAL SCIENCES

80 SOCIAL SCIENCES (GENERAL)
81 ADMINISTRATION AND MANAGEMENT
82 DOCUMENTATION AND INFORMATION
SCIENCE
83 ECONOMICS AND COST ANALYSIS
84 LAW, POLITICAL SCIENCE AND
SPACE POLICY
85 URBAN TECHNOLOGY AND
TRANSPORTATION

SPACE SCIENCES

88 SPACE SCIENCES (GENERAL)
89 ASTRONOMY
90 ASTROPHYSICS
91 LUNAR AND PLANETARY EXPLORATION
92 SOLAR PHYSICS
93 SPACE RADIATION

GENERAL

99 ANNUAL REPORTS, BIOGRAPHIES, AND
HISTORIES



TABLE OF CONTENTS

NASA SCIENTIFIC AND TECHNICAL INFORMATION FILES

AERONAUTICS

Includes aeronautics (general); aerodynamics; air transportation and safety; aircraft communications and navigation; aircraft design, testing and performance; aircraft instrumentation; aircraft propulsion and power; aircraft stability and control; and research and support facilities (air).

For related information see also *Astronautics*.

01 AERONAUTICS (GENERAL)

02 AERODYNAMICS

Includes aerodynamics of bodies, combinations, wings, rotors, and control surfaces; and internal flow in ducts and turbomachinery.

For related information see also *34 Fluid Mechanics and Heat Transfer*.

03 AIR TRANSPORTATION AND SAFETY

Includes passenger and cargo air transport operations; and aircraft accidents.

For related information see also *16 Space Transportation and 85 Urban Technology and Transportation*.

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION

Includes digital and voice communication with aircraft; air navigation systems (satellite and ground based); and air traffic control.

For related information see also *17 Space Communications, Spacecraft Communications, Command and Tracking and 32 Communications and Radar*.

05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE

Includes aircraft simulation technology.

For related information see also *18 Spacecraft Design, Testing and Performance and 39 Structural Mechanics*. For land transportation vehicles see *85 Urban Technology and Transportation*.

06 AIRCRAFT INSTRUMENTATION

Includes cockpit and cabin display devices; and flight instruments.

For related information see also *19 Spacecraft Instrumentation and 35 Instrumentation and Photography*.

07 AIRCRAFT PROPULSION AND POWER

Includes prime propulsion systems and systems components, e.g., gas turbine engines and compressors; and onboard auxiliary power plants for aircraft.

For related information see also *20 Spacecraft Propulsion and Power, 28 Propellants and Fuels, and 44 Energy Production and Conversion*.

08 AIRCRAFT STABILITY AND CONTROL

Includes aircraft handling qualities; piloting; flight controls; and autopilots.

For related information see also *05 Aircraft Design, Testing and Performance*.

09 RESEARCH AND SUPPORT FACILITIES (AIR)

Includes airports, hangars and runways; aircraft repair and overhaul facilities; wind tunnels; shock tubes; and aircraft engine test stands.

For related information see also *14 Ground Support Systems and Facilities (Space)*.

ASTRONAUTICS

Includes astronautics (general); astrodynamics; ground support systems and facilities (space); launch vehicles and space vehicles; space transportation; space communications, spacecraft communications, command and tracking; spacecraft design, testing and performance; spacecraft instrumentation; and spacecraft propulsion and power.

For related information see also *Aeronautics*.

12 ASTRONAUTICS (GENERAL)

For extraterrestrial exploration see *91 Lunar and Planetary Exploration*.

13 ASTRODYNAMICS

Includes powered and free-flight trajectories; and orbital and launching dynamics.

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)

Includes launch complexes, research and production facilities; ground support equipment, e.g., mobile transporters; and simulators.

For related information see also *09 Research and Support Facilities (Air)*.

15 LAUNCH VEHICLES AND SPACE VEHICLES

Includes boosters; operating problems of launch/space vehicle systems; and reusable vehicles.

For related information see also *20 Spacecraft Propulsion and Power*.

16 SPACE TRANSPORTATION

Includes passenger and cargo space transportation, e.g., shuttle operations; and space rescue techniques.

For related information see also *03 Air Transportation and Safety and 18 Spacecraft Design, Testing and Performance*. For space suits see *54 Man/System Technology and Life Support*.

17 SPACE COMMUNICATIONS, SPACECRAFT COMMUNICATIONS, COMMAND AND TRACKING

Includes telemetry; space communications networks; astronavigation and guidance; and radio blackout.

For related information see also *04 Aircraft Communications and Navigation and 32 Communications and Radar*.

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE

Includes satellites; space platforms; space stations; spacecraft systems and components such as thermal and environmental controls; and attitude controls.

For life support systems see *54 Man/System Technology and Life Support*. For related information see also *05 Aircraft Design, Testing and Performance, 39 Structural Mechanics, and 16 Space Transportation*.

19 SPACECRAFT INSTRUMENTATION

For related information see also *06 Aircraft Instrumentation and 35 Instrumentation and Photography*.

20 SPACECRAFT PROPULSION AND POWER

Includes main propulsion systems and components, e.g. rocket engines; and spacecraft auxiliary power sources.

For related information see also *07 Aircraft Propulsion and Power, 28 Propellants and Fuels, 44 Energy Production and Conversion, and 15 Launch Vehicles and Space Vehicles*.

CHEMISTRY AND MATERIALS

Includes chemistry and materials (general); composite materials; inorganic and physical chemistry; metallic materials; nonmetallic materials; propellants and fuels; and materials processing.

23 CHEMISTRY AND MATERIALS (GENERAL)**24 COMPOSITE MATERIALS**

Includes physical, chemical, and mechanical properties of laminates and other composite materials.

For ceramic materials see *27 Nonmetallic Materials*.

25 INORGANIC AND PHYSICAL CHEMISTRY

Includes chemical analysis, e.g., chromatography; combustion theory; electrochemistry; and photochemistry.

For related information see also *77 Thermodynamics and Statistical Physics*.

26 METALLIC MATERIALS

Includes physical, chemical, and mechanical properties of metals, e.g., corrosion; and metallurgy.

27 NONMETALLIC MATERIALS

Includes physical, chemical, and mechanical properties of plastics, elastomers, lubricants, polymers, textiles, adhesives, and ceramic materials.

For composite materials see *24 Composite Materials*.

28 PROPELLANTS AND FUELS

Includes rocket propellants, igniters and oxidizers; their storage and handling procedures; and aircraft fuels.

For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *44 Energy Production and Conversion*.

29 MATERIALS PROCESSING

Includes space-based development of products and processes for commercial application.

For biological materials see *55 Space Biology*.

ENGINEERING

Includes engineering (general); communications and radar; electronics and electrical engineering; fluid mechanics and heat transfer; instrumentation and photography; lasers and masers; mechanical engineering; quality assurance and reliability; and structural mechanics.

For related information see also *Physics*.

31 ENGINEERING (GENERAL)

Includes vacuum technology; control engineering; display engineering; cryogenics; and fire prevention.

32 COMMUNICATIONS AND RADAR

Includes radar; land and global communications; communications theory; and optical communications.

For related information see also *04 Aircraft Communications and Navigation* and *17 Space Communications, Spacecraft Communications, Command and Tracking*. For search and rescue see *03 Air Transportation and Safety*, and *16 Space Transportation*.

33 ELECTRONICS AND ELECTRICAL ENGINEERING

Includes test equipment and maintainability; components, e.g., tunnel diodes and transistors; microminiaturization; and integrated circuitry.

For related information see also *60 Computer Operations and Hardware* and *76 Solid-State Physics*.

34 FLUID MECHANICS AND HEAT TRANSFER

Includes boundary layers; hydrodynamics; fluidics; mass transfer and ablation cooling.

For related information see also *02 Aerodynamics and 77 Thermodynamics and Statistical Physics*.

35 INSTRUMENTATION AND PHOTOGRAPHY

Includes remote sensors; measuring instruments and gages; detectors; cameras and photographic supplies; and holography.

For aerial photography see *43 Earth Resources and Remote Sensing*. For related information see also *06 Aircraft Instrumentation* and *19 Spacecraft Instrumentation*.

36 LASERS AND MASERS

Includes parametric amplifiers.

For related information see also *76 Solid-State Physics*.

37 MECHANICAL ENGINEERING

Includes auxiliary systems (nonpower); machine elements and processes; and mechanical equipment.

38 QUALITY ASSURANCE AND RELIABILITY

Includes product sampling procedures and techniques; and quality control.

39 STRUCTURAL MECHANICS

Includes structural element design and weight analysis; fatigue; and thermal stress.

For applications see *05 Aircraft Design, Testing and Performance* and *18 Spacecraft Design, Testing and Performance*.

GEOSCIENCES

Includes geosciences (general); earth resources and remote sensing; energy production and conversion; environment pollution; geophysics; meteorology and climatology; and oceanography.

For related information see also *Space Sciences*.

42 GEOSCIENCES (GENERAL)**43 EARTH RESOURCES AND REMOTE SENSING**

Includes remote sensing of earth resources by aircraft and spacecraft; photogrammetry; and aerial photography.

For instrumentation see *35 Instrumentation and Photography*.

44 ENERGY PRODUCTION AND CONVERSION

Includes specific energy conversion systems, e.g., fuel cells; global sources of energy; geophysical conversion; and windpower.

For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *28 Propellants and Fuels*.

45 ENVIRONMENT POLLUTION

Includes atmospheric, noise, thermal, and water pollution.

46 GEOPHYSICS

Includes aeronomy; upper and lower atmosphere studies; ionospheric and magnetospheric physics; and geomagnetism.

For space radiation see *93 Space Radiation*.

47 METEOROLOGY AND CLIMATOLOGY

Includes weather forecasting and modification.

48 OCEANOGRAPHY

Includes biological, dynamic, and physical oceanography; and marine resources.

For related information see also *43 Earth Resources and Remote Sensing*.

LIFE SCIENCES

Includes life sciences (general); aerospace medicine; behavioral sciences; man/system technology and life support; and space biology.

51 LIFE SCIENCES (GENERAL)**52 AEROSPACE MEDICINE**

Includes physiological factors; biological effects of radiation; and effects of weightlessness on man and animals.

53 BEHAVIORAL SCIENCES

Includes psychological factors; individual and group behavior; crew training and evaluation; and psychiatric research.

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT

Includes human engineering; biotechnology; and space suits and protective clothing.

For related information see also *16 Space Transportation*.

55 SPACE BIOLOGY

Includes exobiology; planetary biology; and extraterrestrial life.

MATHEMATICAL AND COMPUTER SCIENCES

Includes mathematical and computer sciences (general); computer operations and hardware; computer programming and software; computer systems; cybernetics; numerical analysis; statistics and probability; systems analysis; and theoretical mathematics.

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)**60 COMPUTER OPERATIONS AND HARDWARE**

Includes hardware for computer graphics, firmware, and data processing.

For components see *33 Electronics and Electrical Engineering*.

61 COMPUTER PROGRAMMING AND SOFTWARE

Includes computer programs, routines, algorithms, and specific applications, e.g., CAD/CAM.

62 COMPUTER SYSTEMS

Includes computer networks and special application computer systems.

63 CYBERNETICS

Includes feedback and control theory, artificial intelligence, robotics and expert systems.

For related information see also *54 Man/System Technology and Life Support*.

64 NUMERICAL ANALYSIS

Includes iteration, difference equations, and numerical approximation.

65 STATISTICS AND PROBABILITY

Includes data sampling and smoothing; Monte Carlo method; and stochastic processes.

66 SYSTEMS ANALYSIS

Includes mathematical modeling; network analysis; and operations research.

67 THEORETICAL MATHEMATICS

Includes topology and number theory.

PHYSICS

Includes physics (general); acoustics; atomic and molecular physics; nuclear and high-energy physics; optics; plasma physics; solid-state physics; and thermodynamics and statistical physics.

For related information see also *Engineering*.

70 PHYSICS (GENERAL)

For precision time and time interval (PTTI) see *35 Instrumentation and Photography*; for geophysics, astrophysics or solar physics see *46 Geophysics*, *90 Astrophysics*, or *92 Solar Physics*.

71 ACOUSTICS

Includes sound generation, transmission, and attenuation.

For noise pollution see *45 Environment Pollution*.

72 ATOMIC AND MOLECULAR PHYSICS

Includes atomic structure, electron properties, and molecular spectra.

73 NUCLEAR AND HIGH-ENERGY PHYSICS

Includes elementary and nuclear particles; and reactor theory.

For space radiation see *93 Space Radiation*.

74 OPTICS

Includes light phenomena and optical devices.

For lasers see *36 Lasers and Masers*.

75 PLASMA PHYSICS

Includes magnetohydrodynamics and plasma fusion.

For ionospheric plasmas see *46 Geophysics*. For space plasmas see *90 Astrophysics*.

76 SOLID-STATE PHYSICS

Includes superconductivity.

For related information see also *33 Electronics and Electrical Engineering* and *36 Lasers and Masers*.

77 THERMODYNAMICS AND STATISTICAL PHYSICS

Includes quantum mechanics; theoretical physics; and Bose and Fermi statistics.

For related information see also *25 Inorganic and Physical Chemistry* and *34 Fluid Mechanics and Heat Transfer*.

SOCIAL SCIENCES

Includes social sciences (general); administration and management; documentation and information science; economics and cost analysis; law, political science, and space policy; and urban technology and transportation.

80 SOCIAL SCIENCES (GENERAL)

Includes educational matters.

81 ADMINISTRATION AND MANAGEMENT

Includes management planning and research.

82 DOCUMENTATION AND INFORMATION SCIENCE

Includes information management; information storage and retrieval technology; technical writing; graphic arts; and micrography.

For computer documentation see *61 Computer Programming and Software*.

83 ECONOMICS AND COST ANALYSIS

Includes cost effectiveness studies.

84 LAW, POLITICAL SCIENCE AND SPACE POLICY

Includes NASA appropriation hearings; aviation law; space law and policy; international law; international cooperation; and patent policy.

85 URBAN TECHNOLOGY AND TRANSPORTATION

Includes applications of space technology to urban problems; technology transfer; technology assessment; and surface and mass transportation.

For related information see *03 Air Transportation and Safety*, *16 Space Transportation*, and *44 Energy Production and Conversion*.

SPACE SCIENCES

Includes space sciences (general); astronomy; astrophysics; lunar and planetary exploration; solar physics; and space radiation.

For related information see also *Geosciences*.

88 SPACE SCIENCES (GENERAL)**89 ASTRONOMY**

Includes radio, gamma-ray, and infrared astronomy; and astrometry.

90 ASTROPHYSICS

Includes cosmology; celestial mechanics; space plasmas; and interstellar and interplanetary gases and dust.

For related information see also *75 Plasma Physics*.

91 LUNAR AND PLANETARY EXPLORATION

Includes planetology; and manned and unmanned flights.

For spacecraft design or space stations see *18 Spacecraft Design, Testing and Performance*.

92 SOLAR PHYSICS

Includes solar activity, solar flares, solar radiation and sunspots.

For related information see *93 Space Radiation*.

93 SPACE RADIATION

Includes cosmic radiation; and inner and outer earth's radiation belts.

For biological effects of radiation see *52 Aerospace Medicine*. For theory see *73 Nuclear and High-Energy Physics*.

GENERAL

Includes aeronautical, astronomical, and space science related histories, biographies, and pertinent reports too broad for categorization; histories or broad overviews of NASA programs.

99 GENERAL



**NASA SCIENTIFIC AND TECHNICAL INFORMATION FILES
SECONDARY SUBJECT IDENTIFICATION CODES**

AERONAUTICS

01 AERONAUTICS (GENERAL)

RELATED TOPIC:

World Space Programs and Aerospace Law 84-01
NASA programs in general, foreign aerospace programs, international cooperation, law related to space and aeronautics, Congressional aerospace hearings.

02 AERODYNAMICS

AERODYNAMIC CHARACTERISTICS 02-01
Lift, drag, and factors affecting pitch, roll and yaw.

AERODYNAMICS OF BODIES 02-02
Aerodynamics of bodies of revolution, cylinders, cones and lifting bodies.

AIRFOIL AND WING AERODYNAMICS 02-03
Aerodynamics of wings and airfoil shapes and forms; supercritical wing.

RELATED TOPICS:

Wind Tunnels 09-01
Wind tunnel and shock tube installations, test programs, and technology.

Boundary Layer Technology 34-01
Boundary layer flow and mechanics, including boundary layer control, combustion control, separation, transition, and turbulence.

03 AIR TRANSPORTATION AND SAFETY

COMMERCIAL AND GENERAL AVIATION 03-01
Design, operation and maintenance of specific aircraft used in, or being developed for, civil aviation; airports and facilities; air traffic control and navigation.

HELICOPTERS AND GROUND EFFECT MACHINES 03-02
Helicopters, rotary wing aircraft, ground effect machines, hovercraft, flying platforms, etc.

STOL/VTOL AIRCRAFT 03-03
Aircraft capable of short or vertical takeoffs and landings.

SUPERSONIC TRANSPORT 03-04
Research in supersonic, transonic, and hypersonic transport types, concepts, specifications, and performances.

AIRCRAFT NOISE AND SONIC BOOM 03-05
Aerodynamics, mechanical and combustion noise generated by aircraft and methods of noise reduction.

AIRCRAFT SAFETY AND SAFETY DEVICES 03-06
Aircraft safety studies, accident investigation, air piracy, safety techniques and safety devices.

CLEAR AIR TURBULENCE 03-07
Causes, effects, and methods of detection.

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION

RELATED TOPIC:

Navigation Systems 17-02
Spacecraft and aircraft navigation systems including star trackers, inertial systems, Doppler and stellar navigation; and navigation instruments.

See also topics under Subject Group 32, Communications

- 05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE**
- HYDRAULIC AND PNEUMATIC SYSTEMS** 05-01
Hydraulic and pneumatic components, systems, and instrumentation.
- AUXILIARY ELECTRICAL SYSTEMS** 05-02
Electric auxiliary power supply systems, distribution systems, components, and applications.
- 06 AIRCRAFT INSTRUMENTATION**
- RELATED TOPIC:*
- Spacecraft and Aircraft Instrumentation 19-01
Spacecraft and aircraft instruments, gauges, indicators, and instrument systems.
- 07 AIRCRAFT PROPULSION AND POWER**
- JET PROPULSION** 07-01
Turbojet, pulsejet, and ramjet propulsion systems including specific engines.
- 08 AIRCRAFT STABILITY AND CONTROL**
- RELATED TOPICS:*
- Aerodynamic Characteristics 02-01
Lift, drag, and factors affecting pitch, roll and yaw.
- Boundary Layer Technology 34-01
Boundary layer flow and mechanics, including boundary layer control, combustion control, separation, transition, and turbulence.
- 09 RESEARCH AND SUPPORT FACILITIES (AIR)**
- WIND TUNNELS** 09-01
Wind tunnel and shock tube installations, test programs, and technology. See also Subject Group 02, Aerodynamics.
- RELATED TOPIC:*
- Commercial and General Aviation 03-01
Design, operation and maintenance of specific aircraft used in, or being developed for, civil aviation; airports and facilities; air traffic control and navigation.

ASTRONAUTICS

- 12 ASTRONAUTICS (GENERAL)**
- RELATED TOPIC:*
- World Space Programs and Aerospace Law 84-01
NASA programs in general, foreign aerospace programs, international cooperation, law related to space and aeronautics, Congressional aerospace hearings
- 13 ASTRODYNAMICS**
- CELESTIAL MECHANICS AND ORBITAL CALCULATIONS** 13-01
Mathematical calculations for celestial mechanics, spacecraft orbits and spacecraft and ballistic trajectories
- 14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)**
- SPACECRAFT GROUND SUPPORT** 14-01
Launch facilities, control networks, vehicle maintenance and servicing. For spacecraft tracking stations and networks, see topics 17-04 and 32-03
- TEST FACILITIES** 14-02
Test ranges, centrifuges, engine test stands, rocket test installations, and reactor test facilities

SIMULATORS AND SIMULATION	14-03
Solar, space, and environment simulators, vacuum chambers, and simulation programs, methods, and technology.	
STERILIZATION	14-04
Spacecraft sterilization, sterilization methods, clean rooms, and contamination control.	
<i>RELATED TOPICS:</i>	
Wind Tunnels	09-01
Wind tunnel and shock tube installations, test programs, and technology. See also Subject Group 02, Aerodynamics.	
Tracking	17-04
Tracking installations, personnel, equipment, and systems using radio, radar, infrared, or optical techniques.	
Communication Equipment	32-02
Communication equipment, including radio, microwave, infrared, light and television equipment.	
15 LAUNCH VEHICLES AND SPACE VEHICLES	
LAUNCH VEHICLES	15-01
Atlas, Saturn, Titan, other large and medium launch vehicles.	
SOUNDING ROCKETES	15-02
Upper atmosphere aerology and meteorology probes and other small launch vehicles.	
SPACE PROBES	15-03
Lunar and planetary probes, including Pioneer, Ranger, Mariner, Voyager, and deep space probes.	
SCIENTIFIC SATELLITES	15-04
Geophysical and astronomical satellites, orbiting observatories, Discoverer and Explorer satellites.	
REENTRY VEHICLES	15-05
All vehicles and maneuverable vehicles capable of entering a planetary atmosphere, also decelerators, drogues and other devices used with reentry vehicles, lifting bodies. See also 16-01, Space Transportation and Manned Spacecraft.	
U.S.S.R. SPACECRAFT	15-06
All U.S.S.R. spacecraft and programs, manned and unmanned.	
<i>RELATED TOPICS:</i>	
Spacecraft Ground Support	14-01
Launch facilities, control networks, vehicle maintenance and servicing. For spacecraft tracking stations and networks, see 17-04 and 32-03.	
Spacecraft and Aircraft Instrumentation	19-01
Spacecraft and aircraft instruments, gauges, indicators, and instrument systems.	
Communication Satellites	32-01
INTELSAT, WESTAR, MARISAT, and other domestic and foreign communication satellites.	
Meteorological Satellites	47-01
Nimbus, Tiros, and meteorological data from satellites.	
16 SPACE TRANSPORTATION	
SPACE TRANSPORTATION AND MANNED SPACECRAFT	16-01
All manned space vehicles, including the Shuttle, Apollo, Skylab, Spacelab, Apollo-Soyuz Test Program, and other orbiting laboratories and manned flights. For U.S.S.R. spacecraft, see 15-06.	
17 SPACECRAFT COMMUNICATIONS, COMMAND AND TRACKING	
SPACE COMMUNICATIONS	17-01
Reentry, lunar, interplanetary, satellite, and spacecraft communications. Does not include references to Communication Satellites, for which see 32-01.	

NAVIGATION SYSTEMS	17-02
Spacecraft and aircraft navigation systems including star trackers, inertial systems, Doppler and stellar navigation; and navigation instruments.	
GUIDANCE SYSTEMS	17-03
Spacecraft guidance and control, midcourse guidance and reentry guidance, and spacecraft guidance systems.	
TRACKING	17-04
Tracking installations, personnel, equipment, and systems using radio, radar, infrared, or optical techniques.	
<i>RELATED TOPICS:</i>	
Radar Equipment	33-01
Radar types, applications and component parts.	
Antennas	33-03
Radar and radio antennas and applications.	
See also topics under Subject Group 32, Communications.	
18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE	
SPACECRAFT ATTITUDE CONTROL AND STABILIZATION	18-01
Attitude control system, stability techniques, and instrumentation.	
RENDEZVOUS AND DOCKING	18-02
Rendezvous guidance, rendezvous trajectories and docking techniques.	
19 SPACECRAFT INSTRUMENTATION	
SPACECRAFT AND AIRCRAFT INSTRUMENTATION	19-01
Spacecraft and aircraft instruments, gauges, indicators, and instrument systems.	
SENSORS AND TRANSDUCERS	19-02
Sensing elements used in space vehicles or aerospace services; pressure, temperature, acoustic transducers, etc.	
<i>RELATED TOPICS:</i>	
Navigation Systems	17-02
Spacecraft and aircraft navigation systems including star trackers, inertial systems, Doppler and stellar navigation, and navigation instruments.	
Telemetry	32-04
Data transmission and measuring, biotelemetry, telephotometry, and telepsychometry.	
Bioinstrumentation	54-05
Biotelemetry, medical electronics, physiological monitoring, biological measurement, and biological data handling.	
See also other topics under Subject Group 32, Communications.	
20 SPACECRAFT PROPULSION AND POWER	
ROCKET ENGINES, NOZZLES AND THRUST CHAMBERS	20-01
Specific engines used in rocket propulsion, nozzle and thrust chamber design, materials, and performance.	
AUXILIARY PROPULSION	20-02
Spacecraft propulsion systems other than the main propulsion system (i.e., steering jets, retrorockets, and propulsion units for extravehicular operations).	
ELECTRIC PROPULSION	20-03
Propulsion systems by charged electrical particles accelerated by electrical or magnetic fields; includes electromagnetic and electrostatic propulsion.	
<i>RELATED TOPIC:</i>	
Jet Propulsion	07-01
Turbojet, pulsejet, and ramjet propulsion systems including specific engines.	
See also topics under Subject Group 44, Energy Production and Conversion.	

CHEMISTRY AND MATERIALS

23 CHEMISTRY AND MATERIALS (GENERAL)

CHEMICAL ANALYSIS	23-01
Qualitative, quantitative, X-ray, chromatography, and other analytical techniques.	
CHEMICAL PROCESSES AND ENGINEERING	23-02
Chemical processes and specific chemical reactions such as oxidation, nitration, hydrogenation, etc.	
LUMINESCENCE	23-03
Chemiluminescence, fluorescence, phosphorescence, bioluminescence, and related topics.	
PHOTOCHEMISTRY	23-04
Photolysis, photosynthesis, and actinometry.	
<i>RELATED TOPIC:</i>	
Biochemistry	51-02
Chemistry of living organisms and physiochemistry.	

24 COMPOSITE MATERIALS

COMPOSITE MATERIALS	24-01
Types of composite materials, including laminates, sandwich materials and cermets; properties and uses.	
REINFORCED MATERIALS AND FIBERS	24-02
Materials reinforced by inclusions, fiber reinforcement, whiskers, filament wound vessels.	

25 INORGANIC AND PHYSICAL CHEMISTRY

CORROSION	25-01
Metal corrosion, stress corrosion, corrosion prevention, and tests for corrosion.	
METAL CRYSTALS	25-02
Structure, defects, and technology of metal crystals.	
COATINGS	25-03
Types of coatings, properties and uses; coating techniques.	
ELECTROCHEMISTRY	25-04
Electrochemical processes, electrolysis, and electrolytic processes.	

26 METALLIC MATERIALS

ALUMINUM	26-01
Aluminum, aluminum alloys, compounds and powdered aluminum; properties and uses.	
BERYLLIUM	26-02
Beryllium, beryllium alloys and compounds; properties and uses.	
LIQUID METALS	26-03
Characteristics, properties, technology, and uses of liquid metals.	
STEEL	26-04
Types of steel and stainless steel alloys; properties and uses.	
TITANIUM	26-05
Titanium and titanium alloys, properties and uses.	
REFRACTORY METALS	26-06
Refractory metals and alloys, and superalloys; properties and uses.	
METALLURGY	26-07
Powder metallurgy, sintering, fractography and metallography.	

27 NONMETALLIC MATERIALS

PLASTICS	27-01
Specific plastics, thermoplastics, resins, thermosetting plastics, high temperature plastics, silicones and styrenes; properties and uses.	

ADHESIVES	27-02
Types of adhesives, properties and uses.	
CERAMICS	27-03
Specific ceramics, properties, and uses.	
ELASTOMERS	27-04
Specific elastomers, properties and uses.	
GRAPHITE	27-05
Graphite, pyrolytic graphite, pyrographic alloy; properties and uses.	
POLYMERS	27-06
Types of polymers, properties and uses; polymer chemistry and polymer physics.	
28 PROPELLANTS AND FUELS	
LIQUID PROPELLANTS	28-01
Cryogenic, hydrogenic, and thixotropic propellants; uses, properties, manufacture, storage and handling; oxidizers and igniters used with liquid propellants.	
SOLID PROPELLANTS	28-02
Types, uses, properties; manufacture, storage and handling, propellant grain studies, and oxidizers and igniters used with solid propellants.	
<u>ENGINEERING</u>	
31 ENGINEERING (GENERAL)	
<i>RELATED TOPICS:</i>	
See specific topics under Subject Groups 32-39.	
32 COMMUNICATIONS	
COMMUNICATION SATELLITES	32-01
INTELSAT, WESTAR, MARISAT, and other domestic and foreign communications satellites.	
COMMUNICATION EQUIPMENT	32-02
Communication equipment, including radio, microwave, infrared, light and television equipment.	
COMMUNICATION SYSTEMS	32-03
Types of communication systems; e.g., television, digital, etc., and specific systems; e.g., Defense Communication Systems, Deep Space Network, etc.	
TELEMETRY	32-04
Data transmission and measuring biotelemetry, telephotometry, and telepsychometry.	
RADIO NOISE	32-05
Studies of radio noise sources, random noise, signal-to-noise ratio, noise reduction, and noise measurement.	
COMMUNICATION THEORY	32-06
Information theory, coding automata theory, signal processing, and decision theory.	
<i>RELATED TOPICS:</i>	
Radar Equipment	33-01
Radar types, applications and component parts.	
Antennas	33-03
Radar and radio antennas and applications.	
See also topics under Subject Group 17, Spacecraft Communications, Command and Tracking.	
33 ELECTRONICS AND ELECTRICAL ENGINEERING	
RADAR EQUIPMENT	33-01
Radar types, applications, and component parts.	

SEMICONDUCTORS AND TRANSISTORS	33-02
Semiconductors and transistors; types, devices, materials, and applications. See also Solid State Devices, 76-01.	
ANTENNAS	33-03
Radar and radio antennas and applications.	
ELECTRONIC COMPONENTS	33-04
Types, design, applications, packaging, and reliability.	
CIRCUITRY	33-05
Circuit theory, production techniques, reliability, protection, and applications. For microcircuits see 33-10, Microelectronics.	
ELECTRICAL EQUIPMENT	33-06
Generators, motors, connectors, and insulation; design and application.	
AMPLIFIERS	33-07
Types of electronic amplifiers, design, and application. For fluid amplifiers see also 34-03, Fluidics.	
FEEDBACK AND CONTROL THEORY	33-08
Systems, techniques, and designs.	
ELECTROMAGNETIC RADIATION	33-09
Wave propagation, electromagnetic effects, properties, detection, and application.	
MICROELECTRONICS	33-10
Microcircuits, microelectronic devices and components, microminiaturized electronic equipment.	
MICROWAVE AND SUBMILLIMETER WAVE TECHNOLOGY	33-11
Microwave research, measurement techniques, generation, modulation, and absorption.	
MAGNETISM	33-12
Theory and research, aeromagnetism, ferromagnetism, hydromagnetism, paramagnetism, and thermomagnetism.	
<i>RELATED TOPICS:</i>	
Auxiliary Electrical Systems	05-02
Electric auxiliary power supply systems, distribution systems, components, and applications.	
Communication Equipment	32-02
Communication equipment, including radio, microwave, infrared, light, and television equipment.	
34 FLUID MECHANICS AND HEAT TRANSFER	
BOUNDARY LAYER TECHNOLOGY	34-01
Boundary layer flow and mechanics, including boundary layer control, combustion control, separation, transition, and turbulence.	
GAS DYNAMICS	34-02
Applied and theoretical gas dynamics, problem solving, hypersonic and rarefied gas dynamics.	
FLUIDICS	34-03
Fluid amplification, fluid logic circuits, and fluid devices.	
FLUID FLOW	34-04
Liquid flow, hydromechanics, and cavitation flow; does not include gas or air flow.	
COMBUSTION PHYSICS	34-05
Combustion phenomena, kinetics, instability, detonation, theory.	
HEAT TRANSFER, BASIC	34-06
Characteristics and studies of various forms of heat transfer, heat dissipation, and heat resistance.	
REENTRY HEAT TRANSFER	34-07
Heat transfer problems on reentry and their solution.	

THERMAL PROTECTION	34-08
Methods and materials used in thermal insulation and protection and for various types of cooling.	
ABLATION	34-09
Ablation studies, ablating materials, and application to reentry vehicles and rocket nozzles.	
CRYOGENICS	34-10
Low temperature research. For cryogenic propellants see 28-01.	
<i>RELATED TOPICS:</i>	
Aerodynamic Characteristics	02-01
Lift, drag, and factors affecting pitch, roll and yaw.	
Gas Flow Measurement	35-08
Devices, applications and systems for measuring gas flow.	
35 INSTRUMENTATION AND PHOTOGRAPHY	
PHOTOGRAPHY	35-01
Cameras and photographic equipment and methods including optical, aerial, and radar photography.	
INFRARED TECHNOLOGY	35-02
Infrared devices, including scanners, detectors, filters, cameras, and masers.	
INSTRUMENT STANDARDS AND CALIBRATION TECHNIQUES	35-03
Measurement and radiation standards and calibration of instruments.	
TEMPERATURE MEASUREMENT	35-04
Heat and temperature measuring devices, applications, and systems.	
PRESSURE MEASUREMENT	35-05
Pressure measuring devices, applications, and systems.	
DISPLAY SYSTEMS	35-06
Cathode ray tubes and display techniques and principles.	
DATA RECORDING	35-07
Data recorders and recording systems and techniques.	
GAS FLOW MEASUREMENT	35-08
Devices, applications and systems for measuring gas flow.	
<i>RELATED TOPICS:</i>	
Navigation Systems	17-02
Spacecraft and aircraft navigation systems including star trackers, inertial systems, Doppler and stellar navigation, and navigation instruments.	
Telemetry	32-04
Data transmission and measuring, biotelemetry, telephotometry, and telepsychometry.	
Meteorological Instruments	47-05
Types and uses of meteorological instruments.	
Bioinstrumentation	54-05
Biotelemetry, medical electronics, physiological monitoring, biological measurement, and biological data handling.	
See also topics under Subject Group 19, Spacecraft Instrumentation.	
36 LASERS AND MASERS	
LASERS AND MASERS	36-01
References to lasers and masers in general, laser theory, and types of lasers and masers.	
LASER APPLICATIONS	36-02
Laser communications, laser photography, and laser ranging.	
37 MECHANICAL ENGINEERING	
BEARINGS AND GEARS	37-01
Types of bearings and gears, uses, materials, and applications.	

LUBRICATION AND LUBRICANTS	37-02
Lubrication materials, systems, and applications.	
MACHINING	37-03
Machining processes and techniques and machine tools.	
FRICITION AND WEAR	37-04
Types of friction, friction measurement and effects, frictionless environment, and wear effects.	
SEALS	37-05
Sealants, gaskets, packing, leakage, self-sealing materials, and sealing techniques.	
WELDING	37-06
Brazing, bonding, soldering, and welding techniques and processes; weldability of various materials, and properties and characteristics of welds.	
METAL FORMING	37-07
Theory, techniques, and processes of metal forming other than machining.	
PUMPS	37-08
Pumps, pump seals, and pumping in aerospace technology.	
VACUUM TECHNOLOGY	37-09
Vacuum systems, techniques and processes; vacuum testing measurement and material fabrication.	
NONDESTRUCTIVE TESTING	37-10
Techniques and processes for the nondestructive testing of materials, including infrared, ultrasonic, and X-ray testing.	
TURBOMACHINERY	37-11
Axial flow machines, centrifugal compressors and pumps, gas turbines, turbocompressors, turbine pumps, turbofans, turbogenerators.	
38 QUALITY ASSURANCE AND RELIABILITY	
QUALITY CONTROL AND RELIABILITY	38-01
Product development, qualitative testing and analysis of materials and structures, and reliability criteria for components and structures.	
39 STRUCTURAL MECHANICS	
SHELLS	39-01
Shell structures, stresses, loads, buckling and vibration.	
STRESSES AND LOADS	39-02
Stresses and loads on launch vehicles, spacecraft, and aerospace structures.	
STRUCTURE VIBRATION AND DAMPING	39-03
Vibration and damping in aerospace structures, spacecraft and airframes; panel flutter.	
IMPACT PHENOMENA	39-04
Studies of impact phenomena in aerospace structures and components; also micrometeoroid impact damage.	
STRUCTURAL FATIGUE	39-05
Fatigue studies and analysis, techniques for aerospace structures and components.	
SANDWICH CONSTRUCTION	39-06
Honeycomb, multilayer and laminated fabrication, techniques and structures.	
STRESS ANALYSIS	39-07
Stress calculation and analysis of structures.	
STRUCTURAL TESTS AND RELIABILITY	39-08
Destructive and nondestructive testing and reliability of aerospace structures.	

GEOSCIENCES

42 GEOSCIENCES (GENERAL)

RELATED TOPICS:

See specific topics under Subject Groups 43-48.

43 EARTH RESOURCES

EARTH RESOURCES

43-01

Earth resources studies; the role of satellites in natural resource development, geology, agriculture, forestry.

GEODESY AND CARTOGRAPHY

43-02

Geodetic positions, satellite surveying, geodetic applications, mapping techniques, analyzing methods, and mapping systems.

RELATED TOPICS:

Water Resources and Oceanography

48-01

Water conservation and development; hydrology; remote sensing of floods, snow cover, ice; oceanography, other hydrosphere studies.

Urban Technology and Transportation

85-01

Application of aerospace technology to the problems of cities; urban development, planning, research, and transportation; rail transportation; rapid transit systems; police services; water and sewage treatment; waste utilization, and land use.

44 ENERGY PRODUCTION AND CONVERSION

ENERGY RESOURCES

44-01

Production, conversion, transmission, conservation of energy; solar energy conversion; wind power; remote survey of energy resources; hydrogen economy.

FUEL CELLS AND CHEMICAL BATTERIES

44-02

Electrochemical, biochemical and regenerative fuel cells; silver-cadmium, nickel-oxide and other batteries.

SOLAR SPACE POWER

44-03

Photovoltaic cells, solar cells, solar energy, absorbing films; solar energy converters and solar power systems.

NUCLEAR AUXILIARY POWER

44-04

Nuclear auxiliary reactors, isotopic space power, and specific SNAP Systems.

45 ENVIRONMENT POLLUTION

ENVIRONMENTAL POLLUTION CONTROL

45-01

Applications of aerospace techniques, including remote sensing, to all aspects of air, water, thermal, and environmental pollution; specific pollutants, noise, noise injuries, noise meters, atmospheric composition, water quality.

46 GEOPHYSICS

UPPER EARTH ATMOSPHERE

46-01

Earth atmosphere above the troposphere; ionospheric composition, phenomena, chemical reactions and satellite measurement.

GEOLOGY AND SEISMOLOGY

46-02

Earth geology, petrography, and orography; earthquake detection, measuring and recording instruments, and theoretical models.

GEOMAGNETISM

46-03

Geomagnetic anomaly, fields, latitudes, pulsations, storms, and measuring and data transmitting instruments.

RELATED TOPICS:

Sounding Rockets

15-02

Upper atmosphere aerology and meteorology probes, and other small launch vehicles.

Meteorological Satellites	47-01
Nimbus, Tiros, meteorological data from satellites.	
Gravitation	90-01
Gravitational theory, effect and fields, equations and potential; antigravity, gravitational collapse, and gravity gradient control of satellites.	
Radiation Belts	93-03
Inner and outer radiation belts, Van Allen Belt, artificial radiation belts, and trapped radiation.	
47 METEOROLOGY AND CLIMATOLOGY	
METEOROLOGICAL SATELLITES	47-01
Nimbus, Tiros, meteorological data from satellites.	
WEATHER FORECASTING	47-02
Methods and instruments of weather data acquisition and processing; theory and methods of weather prediction.	
MICROMETEOROLOGY	47-03
Smallest scale observation of physical and dynamic occurrences within the surface boundary layer of the atmosphere; includes turbulence, air pollution, launch conditions.	
CLOUD RESEARCH	47-04
Types of cloud formation, cloud physics, nephelometry, and cloud seeding.	
METEOROLOGICAL INSTRUMENTS	47-05
Types and uses of meteorological instruments.	
<i>RELATED TOPICS:</i>	
Upper Earth Atmosphere	46-01
Earth atmosphere above the troposphere; ionospheric composition, phenomena, chemical reactions and satellite measurement.	
Sounding Rockets	15-02
Upper atmosphere aerology and meteorology probes and small launch vehicles.	
48 OCEANOGRAPHY	
WATER RESOURCES AND OCEANOGRAPHY	48-01
Water conservation and development; hydrology; remote sensing of floods, snow cover, ice; oceanography, other hydrosphere studies.	

LIFE SCIENCES

51 LIFE SCIENCES (GENERAL)	
BIOLOGY (GENERAL)	51-01
Microbiology, ecology, botany, genetics and cytology.	
BIOCHEMISTRY	51-02
Chemistry of living organisms and physiochemistry.	
52 AEROSPACE MEDICINE	
AEROSPACE MEDICINE	52-01
Aerospace medical problems and studies, e.g., toxicity and weightlessness; medical aspects of astronaut performance reaction, and neurophysiology.	
CLINICAL MEDICINE	52-02
General medicine, body systems and functions, diseases, and drugs.	
PHYSIOLOGICAL FACTORS	52-03
Functions related to body composition, physical performance reaction, and neurophysiology.	
BIOLOGICAL RADIATION EFFECTS	52-04
Effects of radiation on the human body and other living organisms.	

53 BEHAVIORAL SCIENCES**PSYCHOLOGICAL FACTORS**

53-01

Factors related to psychology, psychiatry, individual and group behavior, crew training and testing.

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT**LIFE SUPPORT SYSTEMS**

54-01

Systems that support life in spacecraft, isolation chambers or uninhabitable environments, including space cabin atmosphere, food, water, and waste disposal.

CREW SAFETY AND PROTECTIVE CLOTHING

54-02

Survival techniques, escape, rescue, and protective clothing and equipment, space suits.

HUMAN ENGINEERING

54-03

Design and engineering of devices, equipment, and artificial environments to the requirements of man.

MAN-MACHINE SYSTEMS

54-04

Systems in which man and machine are interrelated.

BIOINSTRUMENTATION

54-05

Biotelemetry, medical electronics, physiological monitors, biological measurement, and biological data handling.

RELATED TOPIC:

Cybernetics and Bionics

63-01

Methods of control and communications common to living organisms and machines and those systems that function in the manner of or resembling human systems.

55 PLANETARY BIOLOGY**EXTRATERRESTRIAL LIFE**

55-01

Exobiology and detection, simulation, and genesis of life outside earth.

RELATED TOPIC:

Sterilization

14-04

Spacecraft sterilization, sterilization methods, clean rooms, and contamination control.

MATHEMATICAL AND COMPUTER SCIENCES**59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)****APPLIED MATHEMATICS**

59-01

Mathematical applications in physical, biological and aerospace sciences.

DATA PROCESSING

59-02

Automatic source data processing, data handling, conversion and compression.

60 COMPUTER OPERATIONS AND HARDWARE**DIGITAL AND ANALOG COMPUTERS**

60-01

Computer hardware, structure, peripheral equipment, and applications; hybrid computers.

AIRBORNE OR SPACEBORNE COMPUTERS

60-02

Computer design for onboard spacecraft or aircraft use.

61 COMPUTER PROGRAMMING AND SOFTWARE**COMPUTER SOFTWARE**

61-01

Programming and computer languages, systems analysis, data management.

62 COMPUTER SYSTEMS*RELATED TOPICS:*

Computer Software

61-01

Programming and computer languages, systems analysis, data management.

Aerospace Management Management techniques, cost control, production engineering, personnel management.	81-01
63 CYBERNETICS	
CYBERNETICS AND BIONICS Methods of control and communications common to living organisms and machines and those systems that function in the manner of or resembling human systems.	63-01
64 NUMERICAL ANALYSIS	
NUMERICAL ANALYSIS Mathematical models, theoretical studies and applications.	64-01
65 STATISTICS AND PROBABILITY	
STATISTICS AND PROBABILITY Statistical techniques and applications, probability and reliability theory, probability equations, and problem solving.	65-01
66 SYSTEMS ANALYSIS	
<i>RELATED TOPIC:</i> Computer Software Programming and computer languages, systems analysis, data management.	61-01
67 THEORETICAL MATHEMATICS	

PHYSICS

70 PHYSICS (GENERAL)	
<i>RELATED TOPICS:</i> See specific topics on Subject Groups 71-77.	
71 ACOUSTICS	
ACOUSTICS Acoustic attenuation, simulation, scattering radiation and vibration; hydroacoustics.	71-01
ULTRASONICS Use in medicine and materials research, absorption properties and effects.	71-02
72 ATOMIC AND MOLECULAR PHYSICS	
ATOMIC PHYSICS Atomic theory, collision, beams, energy, reactions, and properties.	72-01
MOLECULAR PHYSICS Molecular theory, energy, structure, collision, beams, properties, molecules, and instrumentation.	72-02
73 NUCLEAR AND HIGH-ENERGY PHYSICS	
NUCLEAR PHYSICS Nuclear particles, structure, reactions, and force.	73-01
RADIOACTIVITY Measurement, detection, material, waste, fission products, and radioactive elements.	73-02

RELATED TOPIC:

Cosmic Radiation 93-01
 Primary and secondary cosmic radiation, galactic and stellar radiation.

74 OPTICS

OPTICS 74-01
 Optical equipment and technology, electron optics, crystal optics, fiber optics, and optical properties.

LIGHT 74-02
 Light scattering, measurement effects and transmission.

75 PLASMA PHYSICS

PLASMA APPLICATIONS 75-01
 Plasma arc welding, plasma spraying, plasma power source, plasma jet technology.

PLASMA DYNAMICS 75-02
 Plasma theory, conductivity, diagnostics, plasma pinch, plasma sheath, plasma waves, and plasma oscillations.

MAGNETOHYDRODYNAMICS 75-03
 Magnetohydrodynamic theory and applications.

RELATED TOPIC:

Astrophysical Plasmas 90-02
 Solar, cosmic, and interstellar plasmas, solar atmosphere, and stellar plasma.

76 SOLID-STATE PHYSICS

SOLID STATE DEVICES 76-01
 Devices using solid state components, diodes, and rectifiers.

SUPERCONDUCTIVITY 76-02
 Superconductivity, superconducting magnets, superconducting transition temperatures, critical temperatures, and critical field curves of superconducting material.

DIELECTRICS 76-03
 Dielectric material including dielectric constant of materials, electric losses and ohmic resistance of compounds, permeability and polarization of dielectric substances and media.

EPITAXIAL DEPOSITION 76-04
 Epitaxial film deposition techniques; electrical properties of epitaxial deposited films and applications.

RELATED TOPICS:

Metal Crystals 25-02
 Structure, defects, and technology of metal crystals.

Semiconductors and Transistors 33-02
 Semiconductor and transistor types, devices, materials and applications.

Magnetism 33-12
 Theory and research, aeromagnetism, ferromagnetism, hydromagnetism, paramagnetism, and thermomagnetism.

77 THERMODYNAMICS AND STATISTICAL PHYSICS*RELATED TOPICS:*

Statistics and Probability 65-01
 Statistical techniques and applications, probability and reliability theory, probability equations, and problem solving.

Molecular Physics 72-02
 Molecular theory, energy, structure, collision, beams, properties, molecules, and instrumentation.

SOCIAL SCIENCES

80 SOCIAL SCIENCES (GENERAL)

RELATED TOPICS:

See specific topics in Subject Groups 81-85.

81 ADMINISTRATION AND MANAGEMENT

AEROSPACE MANAGEMENT

Management techniques, cost control, production engineering, personnel management.

81-01

82 DOCUMENTATION AND INFORMATION SCIENCE

INFORMATION TECHNOLOGY

Documentation, information processing and retrieval, and information systems.

82-01

83 ECONOMICS AND COST ANALYSIS

RELATED TOPIC:

Aerospace Management

Management techniques, cost control, production engineering, personnel management.

81-01

84 LAW AND POLITICAL SCIENCE

WORLD SPACE PROGRAMS AND AEROSPACE LAW

NASA programs in general, foreign aerospace programs, international cooperation, law related to space and aeronautics, Congressional aerospace hearings.

84-01

85 URBAN TECHNOLOGY AND TRANSPORTATION

URBAN TECHNOLOGY AND TRANSPORTATION

Application of aerospace technology to the problems of cities; urban development, planning, research, and transportation; rail transportation, rapid transit systems, police services; water and sewage treatment; waste utilization, and land use.

85-01

SPACE SCIENCES

88 SPACE SCIENCES (GENERAL)

RELATED TOPICS:

See specific topics under Subject Groups 89-93.

89 ASTRONOMY

SOLAR ASTRONOMY

Solar activity, physics, solar telescopes and observatories.

89-01

STELLAR ASTRONOMY AND COSMOLOGY

Stellar, galactic astronomy, including radioastronomy; origin and evolution of the universe.

89-02

METEORS AND METEORITES

Meteor properties and hazards, micrometeoroids and micrometeorites, comets, interplanetary dust.

89-03

90 ASTROPHYSICS

GRAVITATION

Gravitational theory, effect and fields, equations and potential; antigravity, gravitational collapse, gravity gradient control of satellites, geophysical gravitational fields.

90-01

ASTROPHYSICAL PLASMAS

Solar, cosmic, and interstellar plasmas, solar atmosphere, and stellar plasma.

90-02

91 LUNAR AND PLANETARY EXPLORATION**THE MOON**

91-01

Studies of the lunar surface and lunar surface data, lunar interior, lunar environment, spacecraft and vehicles used in exploration, specific projects, and lunar landings.

PLANETARY SCIENCES AND EXPLORATION

91-02

Planetary composition, surfaces, atmospheres, and environment, spacecraft and vehicles used in planetary exploration.

*RELATED TOPICS:***Space Probes**

15-03

Lunar and planetary probes, including Pioneer, Ranger, Mariner, Voyager, and deep space probes.

Astrophysical Plasmas

90-02

Solar, cosmic, and interstellar plasmas, solar atmosphere, and stellar plasma.

92 SOLAR PHYSICS*RELATED TOPIC:***Solar Astronomy**

89-01

Solar activity, physics, solar telescopes and observatories.

93 SPACE RADIATION**COSMIC RADIATION**

93-01

Primary and secondary cosmic radiation, galactic and stellar radiation.

SOLAR RADIATION AND ACTIVITY

93-02

Solar radiation, observation, instrumentation, hazards to space flight, protection from solar radiation, solar storms, solar flares, solar winds, and sunspots.

RADIATION BELTS

93-03

Inner and outer radiation belts, Van Allen Belt, artificial radiation belts, and trapped radiation.

99 GENERAL

ANNUAL REPORTS, BIOGRAPHIES
AND HISTORIES

NASA SCIENTIFIC AND TECHNICAL INFORMATION FILES

ALPHABETICAL RELATIVE INDEX

TOPIC	NUMBER	TOPIC	NUMBER
A			
Ablation	34-09	Bioengineering	54-03
Ablative Materials	34-09	Bioinstrumentation	54-05
Acoustics	71-01	Biological Radiation Effects	52-04
Adhesives	27-02	Biology (General)	51-01
Aerial Photography	35-01	Bioluminescence	23-03
Aerodynamic Characteristics	02-01	Bionics	63-01
Aerodynamics, Airfoil	02-03	Biotelemetry	32-04, 54-05
Aerodynamics, Wings	02-03	Bodies, Aerodynamics of	02-01
Aerodynamics of Bodies	02-02	Boundary Layer Flow	34-01
Aerospace Management	81-01	Boundary Layer Mechanics	34-01
Aerospace Medicine	52-01	Brazing	37-06
Air Conditioning	34-08	C	
Air Flow	35-08	Calibration	35-03
Air Piracy	03-06	Cameras	35-01
Air Traffic Control	03-01	Cartography	43-02
Airborne Computers	60-02	Cathode Ray Tubes	35-06
Aircraft, STOL/VTOL	03-03	Celestial Mechanics	13-01
Aircraft Noise	03-05	Centrifuges	14-02
Aircraft Safety	03-06	Ceramics	27-03
Airfoil Aerodynamics	02-03	Cermets	24-01
Airports	03-01	Chemical Analysis	23-01
Aluminum	26-01	Chemical Batteries	44-02
Amplifiers (Electronic)	33-07	Chemical Engineering	23-02
Amplifiers, Fluid	34-03	Chemical Reactions	23-02
Analog Computers	60-01	Chemiluminescence	23-03
Analytical Chemistry	23-01	Circuit Theory	33-05
Antennas	33-03	Circuitry	33-05
Anthropometry	54-03	Clean Rooms	14-04
Apollo Applications Program	16-01	Clear Air Turbulence	03-07
Apollo Project	16-01	Clinical Medicine	52-02
Apollo-Soyuz Test Program	16-01	Clothing, Protective	54-02
Apollo Telescope Mount	16-01	Cloud Research	47-04
Applied Mathematics	59-01	Coatings	25-03
Astronomical Satellites	15-04	Coherent Light	36-01
Astronomy, Planetary	91-02	Combustion Physics	34-05
Astronomy, Solar	89-01	Comets	89-03
Astronomy, Stellar and Galactic	89-02	Commercial Aviation	03-01
Astrophysical Plasmas	90-02	Communication, Laser	36-02
Astrophysics	89-02	Communication Blackout	17-01
Atmosphere, Upper Earth	46-01	Communication Equipment	32-02
Atmospheres, Planetary	91-02	Communication Satellites	32-01
Atmospheric Entry	34-07	Communication Systems	32-03
Atomic Physics	72-01	Communication Theory	32-06
Attitude Control	18-01	Communications, Space	17-01
Automatic Flight Control	17-02	Composite Materials	24-01
Auxiliary Electrical Systems	05-02	Computer Hardware	60-01
Auxiliary Power, Nuclear	44-04	Computer Software	61-01
Auxiliary Propulsion	20-02	Computers, Airborne or Spaceborne	60-02
Aviation, Civil	03-01	Computers, Analog	60-01
Aviation Law	84-01	Computers, Digital	60-01
B			
Batteries, Chemical	44-02	Computers, Hybrid	60-01
Bearings	37-01	Control Theory, Feedback and	33-08
Behavior, Individual and Group	53-01	Cooling	34-08
Beryllium	26-02	Corrosion	25-01
Biochemistry	51-02	Cosmic Radiation	93-01
		Cosmology	89-02
		Creep Tests	39-08
		Crew Safety	54-02

TOPIC	NUMBER	TOPIC	NUMBER
Crew Training and Evaluation	53-01	Friction	37-04
Cryogenic Propellants	28-01	Fuel Cells	44-02
Cryogenics	34-10	Fuels, Rocket	28-01, 28-02
Crystals, Metal	25-02		
Cybernetics	63-01		
Cytology	51-01		
		G	
		Galactic Evolution	89-02
D		Gas Dynamics	34-02, 35-08
Damping, Structural Vibration and	39-03	Gas Flow	35-08
Data Handling Systems, Biological	54-05	Gaskets	37-05
Data Processing	59-02	Gears	37-01
Data Recording	35-07	Gemini Project	16-01
Decelerators	15-05	Generators, Electric	33-06
Detonators	34-05	Geodesy	43-02
Dielectrics	76-03	Geology	46-02
Digital Computer	60-01	Geomagnetism	46-03
Display Systems	35-06	Geophysical Satellites	15-04
Docking	18-02	Graphite	27-05
Documentation	82-01	Gravitation	90-01
		Gravitational Collapse	90-01
		Gravity Gradient Control	15-02
E		Ground Effect Machines	03-02
Earth Resources	43-01	Ground Support Systems	14-01
Ecology	51-01	Guidance	17-03
Elastomers	27-04	Gyroscopes	17-02
Electric Propulsion	20-03		
Electrical Equipment	33-06	H	
Electrical Insulation	33-06	Heat Pipes	34-06
Electrical Systems	05-02	Heat Transfer, Basic	34-06
Electrochemistry	25-04	Heat Transfer, Reentry	34-07
Electromagnetic Propulsion	20-03	Helicopters	03-02
Electromagnetic Radiation	33-09	Holography	36-02
Electronic Amplifiers	33-07	Honeycomb Structures	39-06
Electronic Components	33-04	Human Engineering	54-03
Electronic Packaging	33-04	Hybrid Computers	60-01
Electrostatic Propulsion	20-03	Hydraulic Shock	39-04
Energy Resources	44-01	Hydraulic Systems	05-01
Engine Test Stands	14-02	Hygiene and Sanitation	54-01
Environment Simulation	14-03		
Epitaxial Deposition	76-04		
Exobiology	55-01	I	
Extraterrestrial Life	55-01	Impact Phenomena	39-04
Extravehicular Operations	16-01	Individual and Group Behavior	53-01
		Induction Heating	34-06
F		Industrial Safety	81-01
Fatigue, Structural	39-05	Inertial Guidance	17-03
Feedback and Control Theory	33-08	Inertial Navigation	17-02
Fiber Technology	24-02	Information Retrieval	82-01
Filament Winding	24-02	Information Technology	82-01
Fission Products	73-02	Information Theory	32-06
Flares, Solar	93-02	Infrared Technology	35-02
Flight Control	17-03	Infrared Testing	37-10
Fluid Amplifiers	34-03	Instrument Calibration	35-03
Fluid Flow	34-04	Instrument Standards	35-03
Fluidics	34-03	Instrumentation, Spacecraft	19-01
Fluorescence	23-03	Instruments, Meteorological	47-05
Flyby Missions	15-03	Instruments, Navigation	17-02
Food and Water Technology	54-01	Instruments, Optical	74-01
		Insulation, Thermal	34-08

