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.

Arell E. Weaver
Acting Assistant Associate Administrator,
Information Resources Management
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>III</td>
</tr>
<tr>
<td>NASA Uniform Files Index</td>
<td>1</td>
</tr>
<tr>
<td>NASA Management Files</td>
<td>3</td>
</tr>
<tr>
<td>Primary Subject Identification Codes</td>
<td>3</td>
</tr>
<tr>
<td>Secondary Subject Identification Codes</td>
<td>4</td>
</tr>
<tr>
<td>Alphabetical Relative Index</td>
<td>11</td>
</tr>
<tr>
<td>NASA Scientific and Technical Information Files</td>
<td>51</td>
</tr>
<tr>
<td>Primary Subject Identification Codes</td>
<td>51</td>
</tr>
<tr>
<td>Secondary Subject Identification Codes</td>
<td>59</td>
</tr>
<tr>
<td>Alphabetical Relative Index</td>
<td>75</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>1000-9999</th>
<th>I. MANAGEMENT FILES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000-1999</td>
<td>ORGANIZATION AND ADMINISTRATIVE</td>
</tr>
<tr>
<td>2000-2999</td>
<td>LEGAL AND TECHNICAL</td>
</tr>
<tr>
<td>3000-3999</td>
<td>PERSONNEL</td>
</tr>
<tr>
<td>4000-4999</td>
<td>PROPERTY AND SUPPLY</td>
</tr>
<tr>
<td>5000-5999</td>
<td>INDUSTRY RELATIONS AND PROCUREMENT</td>
</tr>
<tr>
<td>6000-6999</td>
<td>TRANSPORTATION</td>
</tr>
<tr>
<td>7000-7999</td>
<td>PROGRAM FORMULATION</td>
</tr>
<tr>
<td>8000-8999</td>
<td>PROGRAM MANAGEMENT</td>
</tr>
<tr>
<td>9000-9899</td>
<td>FINANCIAL MANAGEMENT</td>
</tr>
<tr>
<td>9900-9999</td>
<td>AUDITS AND INVESTIGATIONS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>01-99</th>
<th>II. SCIENTIFIC AND TECHNICAL INFORMATION FILES</th>
</tr>
</thead>
<tbody>
<tr>
<td>01-</td>
<td>AERONAUTICS</td>
</tr>
<tr>
<td>12-</td>
<td>ASTRONAUTICS</td>
</tr>
<tr>
<td>23-</td>
<td>CHEMISTRY AND MATERIALS</td>
</tr>
<tr>
<td>31-</td>
<td>ENGINEERING</td>
</tr>
<tr>
<td>42-</td>
<td>GEOSCIENCES</td>
</tr>
<tr>
<td>51-</td>
<td>LIFE SCIENCES</td>
</tr>
<tr>
<td>59-</td>
<td>MATHEMATICAL AND COMPUTER SCIENCES</td>
</tr>
<tr>
<td>70-</td>
<td>PHYSICS</td>
</tr>
<tr>
<td>80-</td>
<td>SOCIAL SCIENCES</td>
</tr>
<tr>
<td>88-</td>
<td>SPACE SCIENCES</td>
</tr>
<tr>
<td>99-</td>
<td>GENERAL</td>
</tr>
</tbody>
</table>
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
Commercial 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 (16).
### NASA Management Files

#### Secondary Subject Identification Codes

**Organization and General Administration (1000-1999)**

<table>
<thead>
<tr>
<th>1000 General</th>
<th>1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agency Establishment</td>
<td>1010</td>
</tr>
<tr>
<td>Legislative Authority</td>
<td>1011</td>
</tr>
<tr>
<td>Executive Authority</td>
<td>1012</td>
</tr>
<tr>
<td>The NASA Seal and Other Devices, and the Congressional Space Medal Honor</td>
<td>1020</td>
</tr>
<tr>
<td>Names, Symbols</td>
<td>1022</td>
</tr>
<tr>
<td>Honors and Commissions</td>
<td>1030</td>
</tr>
<tr>
<td>Emergency Planning &amp; Mobilization</td>
<td>1040</td>
</tr>
<tr>
<td>Civil Defense</td>
<td>1041</td>
</tr>
<tr>
<td>Emergency Warden Organization</td>
<td>1042</td>
</tr>
<tr>
<td>Fallout and Fallout Shelter</td>
<td>1043</td>
</tr>
<tr>
<td>Casualty Reporting</td>
<td>1044</td>
</tr>
<tr>
<td>Mobilization Readiness</td>
<td>1046</td>
</tr>
<tr>
<td>Agreements (general)</td>
<td>1050</td>
</tr>
<tr>
<td>Foreign Governments</td>
<td>1054</td>
</tr>
<tr>
<td>Non-Government</td>
<td>1056</td>
</tr>
<tr>
<td>Intra-Agency Agreements</td>
<td>1058</td>
</tr>
<tr>
<td>Consultants</td>
<td>1060</td>
</tr>
<tr>
<td>History Program</td>
<td>1070</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1100 Organization</th>
<th>1100</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Organization and Definition of Terms</td>
<td>1101</td>
</tr>
<tr>
<td>HQ Program Office Organization</td>
<td>1102</td>
</tr>
<tr>
<td>HQ Staff Office Organization</td>
<td>1103</td>
</tr>
<tr>
<td>Field Installation Organization</td>
<td>1107</td>
</tr>
<tr>
<td>General Organization Responsibilities</td>
<td>1120</td>
</tr>
<tr>
<td>General Operating Relationships</td>
<td>1130</td>
</tr>
<tr>
<td>Committees, Boards, Councils, Panels</td>
<td>1150</td>
</tr>
<tr>
<td>Intra-Agency</td>
<td>1152</td>
</tr>
<tr>
<td>Interagency</td>
<td>1154</td>
</tr>
<tr>
<td>Advisory Committees</td>
<td>1156</td>
</tr>
<tr>
<td>Special Lines of Succession</td>
<td>1160</td>
</tr>
<tr>
<td>Delegation of Authority to Act for the Administrator</td>
<td>1162</td>
</tr>
<tr>
<td>Inventions and Contributions Board</td>
<td>1170</td>
</tr>
<tr>
<td>NASA Board of Contract Appeals</td>
<td>1180</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1200 Basic Operating &amp; Management Concepts</th>
<th>1200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fundamental Principles</td>
<td>1210</td>
</tr>
<tr>
<td>Work Management</td>
<td>1216</td>
</tr>
<tr>
<td>Role of General Management</td>
<td>1220</td>
</tr>
<tr>
<td>Program Management</td>
<td>1230</td>
</tr>
<tr>
<td>Functional Management</td>
<td>1240</td>
</tr>
<tr>
<td>Institutional Management</td>
<td>1250</td>
</tr>
<tr>
<td>Budget Management</td>
<td>1260</td>
</tr>
<tr>
<td>Productivity and Quality Enhancement</td>
<td>1270</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1300 External Relationships</th>
<th>1300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Escort Services</td>
<td>1305</td>
</tr>
<tr>
<td>Legislative Branch</td>
<td>1310</td>
</tr>
<tr>
<td>Congress</td>
<td>1311</td>
</tr>
<tr>
<td>General Accounting Office (GAO)</td>
<td>1312</td>
</tr>
<tr>
<td>Government Printing Office (GPO)</td>
<td>1313</td>
</tr>
<tr>
<td>Library of Congress</td>
<td>1314</td>
</tr>
<tr>
<td>Judicial Branch</td>
<td>1315</td>
</tr>
<tr>
<td>Supreme Court of the United States</td>
<td>1316</td>
</tr>
<tr>
<td>Executive Branch</td>
<td>1320</td>
</tr>
<tr>
<td>Office of the White House</td>
<td>1322</td>
</tr>
<tr>
<td>Office of Management &amp; Budget (OMB)</td>
<td>1323</td>
</tr>
<tr>
<td>Executive Agencies/Departments</td>
<td>1325</td>
</tr>
<tr>
<td>Department of Defense</td>
<td>1328</td>
</tr>
<tr>
<td>Independent Establishments and Government Corporations</td>
<td>1330</td>
</tr>
</tbody>
</table>

**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
<table>
<thead>
<tr>
<th>Page</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000</td>
<td>PERSONNEL (Human Resources) 3000-3999</td>
</tr>
<tr>
<td>3100</td>
<td>EXECUTIVE HUMAN RESOURCES MANAGEMENT (SES, Senior Executive Service)</td>
</tr>
<tr>
<td>3200</td>
<td>GENERAL PERSONNEL PROVISIONS 3200</td>
</tr>
<tr>
<td>3300</td>
<td>EMPLOYMENT (general) 3300</td>
</tr>
<tr>
<td>3400</td>
<td>EMPLOYEE PERFORMANCE AND UTILIZATION 3400</td>
</tr>
<tr>
<td>3500</td>
<td>POSITION CLASSIFICATION, PAY, AND ALLOWANCES 3500</td>
</tr>
<tr>
<td>3600</td>
<td>TIME AND ATTENDANCE 3600</td>
</tr>
<tr>
<td>3700</td>
<td>PERSONNEL RELATIONS AND SERVICES 3700</td>
</tr>
</tbody>
</table>
PROCUREMENT CONTINUED:

8

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>5150</td>
<td>Extraordinary Contractual Actions</td>
<td>5150</td>
</tr>
<tr>
<td>5151</td>
<td>Use of Government Sources by Contractors</td>
<td>5151</td>
</tr>
<tr>
<td>5152</td>
<td>Solicitation Provisions and Contract Clauses</td>
<td>5152</td>
</tr>
<tr>
<td>5153</td>
<td>Contract Forms</td>
<td>5153</td>
</tr>
<tr>
<td>5154</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5155</td>
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<td>5198</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5199</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5200</td>
<td>CONTRACTOR LABOR RELATIONS</td>
<td>5200</td>
</tr>
<tr>
<td>5210</td>
<td>Labor Relations Boards</td>
<td>5210</td>
</tr>
<tr>
<td>5220</td>
<td>Disputes, Strikes, &amp; Work Stoppages</td>
<td>5220</td>
</tr>
<tr>
<td>5300</td>
<td>RELIABILITY AND QUALITY ASSURANCE</td>
<td>5300</td>
</tr>
<tr>
<td>5310</td>
<td>General Provisions</td>
<td>5310</td>
</tr>
<tr>
<td>5311</td>
<td>NASA-DOD Relationships</td>
<td>5311</td>
</tr>
<tr>
<td>5320</td>
<td>Reliability Policies and Programs</td>
<td>5320</td>
</tr>
<tr>
<td>5330</td>
<td>Quality Policies and Programs</td>
<td>5330</td>
</tr>
<tr>
<td>5340</td>
<td>Contamination Control</td>
<td>5340</td>
</tr>
<tr>
<td>5400</td>
<td>CONTRACTOR-HELD GOVERNMENT PROPERTY</td>
<td>5400</td>
</tr>
<tr>
<td>5500</td>
<td>PATENT WAIVER</td>
<td>5500</td>
</tr>
<tr>
<td>5600</td>
<td>STATEMENT OF WORK</td>
<td>5600</td>
</tr>
<tr>
<td>5610</td>
<td>Work Breakdown Structures</td>
<td>5610</td>
</tr>
<tr>
<td>5700</td>
<td>AWARDS, INVENTIONS &amp; CONTRIBUTIONS BOARD</td>
<td>5700</td>
</tr>
<tr>
<td>5800</td>
<td>GRANTS</td>
<td>5800</td>
</tr>
<tr>
<td>5900</td>
<td>PROVISIONING</td>
<td>5900</td>
</tr>
<tr>
<td>6000</td>
<td>TRANSPORTATION</td>
<td>6000-6900</td>
</tr>
<tr>
<td>6010</td>
<td>GENERAL</td>
<td>6010</td>
</tr>
<tr>
<td>6020</td>
<td>Definition of Terms</td>
<td>6020</td>
</tr>
<tr>
<td>6022</td>
<td>Transportation Officers</td>
<td>6022</td>
</tr>
<tr>
<td>6030</td>
<td>Appointment and Responsibilities</td>
<td>6030</td>
</tr>
<tr>
<td>6040</td>
<td>Relationships with Other Government Agencies</td>
<td>6040</td>
</tr>
<tr>
<td>6041</td>
<td>Participation before Regulatory Agencies</td>
<td>6041</td>
</tr>
<tr>
<td>6050</td>
<td>Transportation Publications, Records, and Reports</td>
<td>6050</td>
</tr>
<tr>
<td>6051</td>
<td>Preparation of Government Bills of Lading</td>
<td>6051</td>
</tr>
<tr>
<td>6100</td>
<td>COMMERCIAL FREIGHT SERVICES</td>
<td>6100</td>
</tr>
<tr>
<td>6110</td>
<td>Freight Rates, Charges, &amp; Classification</td>
<td>6110</td>
</tr>
<tr>
<td>6120</td>
<td>Freight Traffic Negotiations</td>
<td>6120</td>
</tr>
<tr>
<td>6130</td>
<td>Carrier and Mode Selection</td>
<td>6130</td>
</tr>
<tr>
<td>6140</td>
<td>Accessorial Transportation Services</td>
<td>6140</td>
</tr>
<tr>
<td>6200</td>
<td>TRAFFIC MANAGEMENT PROGRAMS</td>
<td>6200</td>
</tr>
<tr>
<td>6210</td>
<td>Procurement Traffic Management</td>
<td>6210</td>
</tr>
<tr>
<td>6220</td>
<td>Loss and Damage in Transit</td>
<td>6220</td>
</tr>
<tr>
<td>6300</td>
<td>TRANSPORTATION OF UNUSUAL OR HAZARDOUS CARGO</td>
<td>6300</td>
</tr>
<tr>
<td>6310</td>
<td>Export Traffic</td>
<td>6310</td>
</tr>
<tr>
<td>6320</td>
<td>Import Traffic</td>
<td>6320</td>
</tr>
<tr>
<td>6330</td>
<td>Explosives and Other Dangerous Articles</td>
<td>6330</td>
</tr>
<tr>
<td>6340</td>
<td>Oversize and Overweight Cargo</td>
<td>6340</td>
</tr>
<tr>
<td>6350</td>
<td>Classified Cargo</td>
<td>6350</td>
</tr>
<tr>
<td>6400</td>
<td>PREPARATION AND HANDLING OF CARGO</td>
<td>6400</td>
</tr>
<tr>
<td>6410</td>
<td>Preservation, Packaging, and Packing Supplies and Equipment</td>
<td>6410</td>
</tr>
<tr>
<td>6420</td>
<td>Loading, Blocking, and Bracing</td>
<td>6420</td>
</tr>
<tr>
<td>6430</td>
<td>Operation &amp; Maintenance of Materials Handling Equipment</td>
<td>6430</td>
</tr>
<tr>
<td>6500</td>
<td>SPECIAL AILRIFT SERVICES</td>
<td>6500</td>
</tr>
<tr>
<td>6600</td>
<td>TRANSPORTABILITY &amp; TRANSPORT ENGINEERING</td>
<td>6600</td>
</tr>
<tr>
<td>6610</td>
<td>Movement of Large Launch Vehicles</td>
<td>6610</td>
</tr>
<tr>
<td>6620</td>
<td>NASA Transportability</td>
<td>6620</td>
</tr>
<tr>
<td>6700</td>
<td>MOTOR VEHICLE OPERATION AND MANAGEMENT</td>
<td>6700</td>
</tr>
<tr>
<td>6710</td>
<td>NASA Motor Vehicle Program</td>
<td>6710</td>
</tr>
<tr>
<td>6720</td>
<td>Vehicle Authorization &amp; Acquisitions</td>
<td>6720</td>
</tr>
<tr>
<td>6730</td>
<td>Vehicle Operations and Control</td>
<td>6730</td>
</tr>
<tr>
<td>6740</td>
<td>Vehicle Maintenance and Motor Pools</td>
<td>6740</td>
</tr>
<tr>
<td>6750</td>
<td>Vehicle Accidents</td>
<td>6750</td>
</tr>
<tr>
<td>6752</td>
<td>Lost, Damaged, &amp; Destroyed Vehicles</td>
<td>6752</td>
</tr>
<tr>
<td>6760</td>
<td>Vehicle Marking and Identification</td>
<td>6760</td>
</tr>
<tr>
<td>6780</td>
<td>Automotive Equipment</td>
<td>6780</td>
</tr>
<tr>
<td>6800</td>
<td>PASSENGER TRANSPORTATION</td>
<td>6800</td>
</tr>
<tr>
<td>6810</td>
<td>Local Passenger Service</td>
<td>6810</td>
</tr>
<tr>
<td>7000</td>
<td>PROGRAM FORMULATION</td>
<td>7000-7999</td>
</tr>
<tr>
<td>7010</td>
<td>GENERAL</td>
<td>7010</td>
</tr>
<tr>
<td>7020</td>
<td>Agency Program Goals &amp; Objectives</td>
<td>7020</td>
</tr>
<tr>
<td>7030</td>
<td>Long-Range Planning</td>
<td>7030</td>
</tr>
<tr>
<td>7040</td>
<td>Intermediate-Range Planning</td>
<td>7040</td>
</tr>
<tr>
<td>7050</td>
<td>Program Planning and Review</td>
<td>7050</td>
</tr>
<tr>
<td>7051</td>
<td>Low Cost Systems Program</td>
<td>7051</td>
</tr>
<tr>
<td>7100</td>
<td>RESEARCH AND DEVELOPMENT PLANNING AND APPROVAL</td>
<td>7100</td>
</tr>
<tr>
<td>7110</td>
<td>Advanced Studies Planning &amp; Approval</td>
<td>7110</td>
</tr>
<tr>
<td>7120</td>
<td>Project Planning and Approval</td>
<td>7120</td>
</tr>
<tr>
<td>7121</td>
<td>Phased Project Planning &amp; Approval</td>
<td>7121</td>
</tr>
<tr>
<td>7122</td>
<td>Other Project Planning &amp; Approval</td>
<td>7122</td>
</tr>
<tr>
<td>7130</td>
<td>Supporting Research and Technology Planning and Approval</td>
<td>7130</td>
</tr>
<tr>
<td>7140</td>
<td>University Program</td>
<td>7140</td>
</tr>
<tr>
<td>7150</td>
<td>Project Scheduling &amp; Implementation</td>
<td>7150</td>
</tr>
<tr>
<td>7160</td>
<td>Project Termination</td>
<td>7160</td>
</tr>
<tr>
<td>7170</td>
<td>Human Research</td>
<td>7170</td>
</tr>
</tbody>
</table>
INSTITUTIONAL PLANNING AND APPROVAL
Establishment of Agency Institutional Goals and Objectives
Establishment of Installation Institutional Goals and Objectives
Institutional Planning—Center Development
Human Resources Planning and Plans
Facility Master Planning and Plans
Installation Technical Capability Planning and Plans
Installation Institutional Capability Planning and Plans
Site Selection

FACILITY PLANNING AND APPROVAL
Facility Reuirements Determination
Facility Design Standards, Criteria, and Procedures
Facility Project Planning & Approval (C of F)
Industrial Facilities Planning and Approval

BUDGET FORMULATION AND EXECUTION
General
Preliminary Budget (Budget Review)
Budget Call (Instructions and Guidelines)
Preparation and Submission of Estimates
Headquarters Review & Approval
Formulation of Annual Appropriation and Authorization Languages
President's Budget
Budget Call
Preparation and Submission of Estimates
Headquarters Review and Approval
External Agency Review & Approval
Congressional Budget
Budget Call
Preparation & Submission of Material
Headquarters Review and Approval
Preparation and Submission of Congressional Budget
Conduct of NASA Participation
Congressional Hearings

COMMERCIALIZATION

PROGRAM OPERATING PLANS
General Policies and Procedures
Research and Program Management
Research and Development
Construction of Facilities

HUMAN RESOURCES UTILIZATION
General
Determination of Human Resources Requirements
Personnel Implementation Controls
Human Resources Utilization Program and Reports

RESOURCES AUTHORITY ALLOCATION SYSTEM
General
Research and Program Management
Research and Development
Construction of Facilities

AIRCRAFT OPERATIONS AND MANAGEMENT
Aircraft Operations Management
Administrative Aircraft Management

PROGRAM MANAGEMENT
8000-8900

GENERAL
Major Flight and Development
Program Control
Flight Experiments and Tasks
Configuration Control
Systems Integration and Checkout
Systems Design
Standards and Specifications
Tests and Testing

ADVANCED STUDIES
General
Conduct of Studies
Study Reports
In-House Reports
Contractor Study Reports

SUPPORTING RESEARCH AND TECHNOLOGY
General
Conduct of SRT
Coordination and Dissemination

GRANTS AND RESEARCH CONTRACTS
General
University Program
Evaluation of Proposals
Termination

TRACKING AND DATA ACQUISITION
General
Network Assignment and Management
Network Planning and Coordination

SUPPORT SERVICES

OPERATIONS
General
Mission Reports
Mission Failure Investigations and Reports
Launch Operations
Launch Scheduling
Launch Dates
Launch Testing
Flight Operations
Astronauts
Payload Specialists
Range Integration and Support
Weather

STANDARDS
Safety and Health Standards Systems
Occupational Safety and Health
Program Application (OSHA)
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

PROGRAM MEDICAL SUPPORT ............ 8900

FINANCIAL MANAGEMENT .............. 9000-9900

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

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

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

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

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

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

GENERAL (AUDITS AND INVESTIGATIONS) .... 9900
Audit Policies and Procedures .......... 9910
Relationship with GAO ......................... 9920
Investigations Policies and Procedures .......... 9950
NASA MANAGEMENT FILES
ALPHABETICAL RELATIVE INDEX

ABSENCE ................................................. 3630
... ALSO SEE "Personnel" ...

ACCIDENTS
Casualty Reports ................................. 1711
Compensation, Work-Related Injuries: ......... 3810
Definitions Policies Reporting Requirements Responsibilities
Mission Failure Investigation .......... 8621
Motor Vehicle, Report ..................... 6750
Operations, Investigations/Documentation ........ 8621
Personnel ........................................... 3000
Prevention Program ....................... 1710
Program Management .............. 8000
Release of Information, To the Public .... 1382
Policy on Procedures for Responsibilities
Safety ................................................... 1700
Vehicles Rented by NASA Travelers,
Claims for: ......................................... 9730
Disposition of NASA Liability, Limitations of Processing, Procedures for Travelers, Responsibilities

Accountable Officer's Returns .......... 9000

ACCOUNTABILITY
Classified Document ............................ 1600
Keys, Security and Protective .......... 1610
Personal Property, Files ................. 1620
Property (Physical/Equipment) ......... 4210
Transportation and Travel ............. 9700

ACCOUNTING
Accountable Officers' Returns .......... 9000
Accounting ........................................ 9200
Accrual ......................................... 9060
Allotment ........................................ 9230
Availability of Funds .......... 9200
Collection of Funds ..................... 9600
Correspondence ............................ 9200
Cost ........................................ 9240
General Ledger ............................ 9220
Leave ........................................... 9360
Miscellaneous .............................. 9280
Property ...................................... 9250
Revenue ....................................... 9260
Sancation of Funds ...................... 5131
... ALSO SEE "Financial Management"

ACCOUNTS
Accounts, General ......................... 9000
Posting and Control .................... 9000

Address Codes, FEDSTRI P and MILSTRI P, Coordination of .......... 4050

ADMINISTRATIVE
Aircraft, Operations Manual ............. 7920
Committees, Boards, Panels .............. 1150
... ALSO SEE "COMMITTEES"
Intra-Agency ................................. 1152
Interagency .................................. 1154
Advisory ........................................ 1156
Directives ...................................... 1410

ADMINISTRATIVE CONTINUED:
Forms ............................................. 1420
Management Improvement .............. 1470
Management Programs ..................... 1400
Organization ................................ 1100
Publications ................................. 1480
Records Management ..................... 1440
Reports Control .............................. 1415
Administrative Services ................. 1500

ADMINISTRATOR
Authority to Act for ...................... 1162
Flag, Official ................................ 1020
Fund ........................................ 9050
Lines of Succession ...................... 1162
RESPONSIBILITIES:
Accident/Mission Failure .......... 8621
Aerospace Safety Advisory Panel .... 1156

ADMINISTRATOR, ASSOCIATE DEPUTY
RESPONSIBILITIES:
Federal Register Documentation .... 1412
Freedom of Information Act .......... 1382
Personnel Training in Foreign Countries by Foreign Institutions 3410
Privacy Act of 1974 ..................... 1382
Role and Responsibilities .......... 1103

ADMINISTRATOR, DEPUTY
Flag Official ................................. 1020
Lines of Succession ...................... 1162
RESPONSIBILITIES:
Accident/Mission Failure .......... 8621
Aerospace Safety Advisory Panel .... 1156

Administrator's Fund ................. 9050

ADP (Automatic Data Processing) .... 2400

Advance Waiver Review Panel ....... 1152

Advanced Research and Technology .... 7100

Advanced Studies ......................... 8100

Adverse Actions ......................... 3752

Advertising, Paid ......................... 1102

Advisory Council ......................... 1156

Advisory Groups ......................... 1156
... ALSO SEE "Committees"

Aerial Film ................................ 7100
... ALSO SEE "Cartography"

Aeronautics Advisory Committee .... 1156

AERONAUTICS AND SPACE PROGRAMS
Inspection, Provisions For .......... 5300
International Participation .......... 1382
Development of Initiation of Objectives of Proposals for
AERONAUTICS AND SPACE TECHNOLOGY - OFFICE OF

ASSOCIATE ADMINISTRATOR:
Authority to Act for .......................... 1102
Lines of Succession .............................. 1102
Committee ........................................ 1152

RESPONSIBILITIES:
Accident/Mission Failure ........................ 8621
GIDEP Utilization .................................. 5310
Program Planning ............................... 1102
Organization and Responsibilities .......... 1102
Scientific & Technical Information,
Presentation/Publication .................. 2220

AERONAUTICS, PROPOSALS FOR
Outside Investigations ......................... 8030
AEROSPACE SAFETY ADVISORY PANEL ......... 1156
AFFIRMATIVE ACTION PLANS ................... 3700

AGENCY
PROGRAMS: ...................................... 7000
Authorization and Control
Elements of
Implementation of
Objectives of
Policy

RESOURCES:
Allocation and Control ....................... 7000
Internal Control System ........................ 1200

AGENCYWIDE CODE STRUCTURE .................. 9100

AGRICULTURE, EXTRATERRESTRIAL
Exposure, Quarantine .......................... 8020

AIM (AUTOMATED INFORMATION MANAGEMENT
COUNCIL) ......................................... 1154

AIR FORCE (STS PROTECTION) .................... 8610
... ALSO SEE "DEFENSE, DEPARTMENT OF" ...

AIRCRAFT
ADMINISTRATIVE: ................................ 7900
Coordination/Scheduling
Flight Approval
Operation of
Operations Manual
Policy
Responsibility for
Airworthiness ................................... 7910
Commercial ...................................... 1620
Headquarters ................................... 7920
Management ..................................... 7910
Mission Classification ........................ 7910
NASA Controlled:
Definition of ................................... 7910
Delegation of Authority ....................... 7910
OPERATIONS GUIDELINES ..................... 7910
Flight Crews
General Policy
Safety
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

Alert Reporting System ........................ 5310
GIDEP Notification
Reporting Requirements/Procedures
Responsibility for

ALIENS ........................................... 1610
... ALSO SEE "SECURITY" ...

ALLOWANCES (PERSONNEL RELATED) ............ 3500
... ALSO SEE "FINANCIAL MANAGEMENT" ...

AMERICAN ......................................... 1710
National Standards Institute (ANSI)
Petroleum Institute (API)
Society for Testing and Materials (ASTM)
Society of Mechanical Engineers (ASME)

AMES RESEARCH CENTER (ARC) ................. 1107
... ALSO SEE "FIELD INSTALLATIONS" ...

AMMUNITION STORAGE ............................ 1620

ANNOUNCEMENT OF OPPORTUNITY (AO)
Guidelines/Acquisitions of
Investigations ................................. 8030
Space Science Experiments .................. 7100

ANNUAL LEAVE ................................... 3630

ANNUITIES ....................................... 3800
... ALSO SEE "PERSONNEL" ...

ANSI (AMERICAN NATIONAL STANDARDS
INSTITUTE) ....................................... 1710

API (AMERICAN PETROLEUM INSTITUTE) .... 1710

APPOINTING OFFICERS ......................... 3311

APPROPRIATIONS .................................. 9100
... ALSO SEE "FINANCIAL MANAGEMENT" ...

ARMY (CORPS OF ENGINEERS) ..................... 8811
Leases, Real Property ....................... 8812
Services For, Leaseholds, Permits,
and Licenses ................................. 8813
... ALSO SEE "DEFENSE" ...

ARTIFACTS
Committee ....................................... 4310
Identification and Disposition of .......... 4310

ASTRONAUTS ...................................... 8650
Accidents/Release of Information .......... 1382
Badges .......................................... 1020
Congressional Space Medal of Honor
Procedures for Nominating ............... 1020
Disease & Injury Exposure Control ........ 8900
Medical/Dental Care Program .............. 8900
Official Flight Kits ......................... 1900
Payload Specialist ......................... 8651
Personal Preference Kits ................... 1900
Public Appearances By ..................... 1384
Policy on, Responsibility for &
Scheduling of ................................ 8610
Recruitment and Selection .............. 3330
Index NRS No. No.  

**AUDITING**  

**Audits and Investigations** ................................ 9900  
**AUDIT PROGRAM:** ............................................ 9910  
Audited Organizations;  
Closure Recommendations;  
Contractors/Grantees Audits;  
Definitions;  
Internal Audit Procedures/Resolution;  
NASA Management;  
Office of Inspector General;  
Resolution  
General Accounting Office (GAO) ........ 1325  
Manned Space Flight Related:  
Procedures for .......... 9920  
Responsibility for .......... 9920  
Policies and Procedures .......... 9910  
Relationship with GAO .......... 1325, 9920  

Automated Information Management (AIM) Council .................. 1154  

**AUTOMATIC DATA PROCESSING (ADP)**  
Automatic Data Processing (General). 2400  
Information Management Council .......... 1154  
Information Processing .......... 2410  
Intercenter Committee on .......... 1152  
Management Policies and Procedures .......... 2410  
(Resource Management: Security Assurance)  

Automatic Downgrading & Declassifying ... 1640  

Automobiles .......... 6700  
... ALSO SEE "Motor Vehicle"...  

**AVIATION SAFETY**  
NASA Aircraft Operations .......... 7910  
Reporting System .......... 1156  

**AWARDS**  
Career Service Recognition .......... 3451  
Cash Awards .......... 3451  
Congressional Space Medal .......... 1020  
Distinguished Public Service Medal .......... 3451  
Equal Employment Opportunity Trophy External  
Foreign, Acceptance of .......... 1030  
Honor .......... 3451  
Incentive .......... 3451  
Inspector General/Presidential Merit System Cash  
Military Personnel .......... 3280  
NASA Honor Awards .......... 3451  
Presidential Recognition Program .......... 3451  
Scientific & Technical Contributions .......... 5700  
Special Achievement Awards .......... 3451  
Suggestion Award .......... 3451  

**BADGES**  
Astronauts .......... 1020  
Identification .......... 1620  

Balance of Payments, International .......... 9380
### Index NRS No. No.

#### BID AND PROPOSAL FILES
- Acceptable bidders: 5100
- Cancelled: 5149
- Successful: 5115
- Unsuccessful: 5115

#### Bills of Lading
- 6051

#### Binding
- 1490

- (Definition of; Equipment; Standards/Specifications)
- 5340

- Biological Contamination
- 5340

- ALSO SEE "Contamination"

#### Boards
- 1150

- ALSO SEE "Committees"

#### Boilers, Inspection of
- 8833

#### BONDS
- Personnel Surety: 2000
- Savings: 3960

#### BUDGET:
- Activities Funded through Other Agencies
- Administration
- Administration Manual
- Appropriation of Funds/Legal Requirements for Management
- Apportionment
- Correspondence Files
- Estimates
- EXECUTION:
- Allotment of Funds
- COF Appropriation
- Program Operating Plans, Development, Administration of R&PM Appropriation
- Resources Authority Warrants
- Warranting/Funds Apportioning

- FORMULATION:
- Annual Budget Submission General Policies for General Requirements for Instructions for Support Materials for Formulation and Execution Handbook
- 1103
- Glossary of Terms
- 7400
- Headquarters/Installations Responsibilities
- Historical/Statutory Basis for Federal Budget Process
- 7400
- Overobligation of Funds, Disciplinary Action for
- 7400
- Operations Division
- 1103
- President's Budget/Information Disclosure Responsibilities
- 7440
- R&D Appropriation
- 7400
- R&PM Appropriation, Direct Obligations Preparation by Sub-Function and Subobject
- 7400
- Relationship of Other Agencies
- 7400
- Reports
- 9300
- Responsibility for
- 7400
- Summary of Functions:
- 7400
- Formulation/Review and Enactment/Execution Structure of Accounts/Available Funds/Programs and Projects
- 7400

- ... ALSO SEE "Financial Management"

#### Bugging, Electronic
- 2530

- ALSO SEE "Investigations"

#### BUILDING(s):
- Allocation (of space)
- 1540
- Conference Rooms and Auditoriums
- 1542
- Correspondence
- 1540
- Credentials
- 8800
- Directory Service
- 1550
- Fallout Shelters
- 1043
- 1700
- Inspections
- 8833
- (Boilers / Elevators)
- Management
- 1540
- Plans
- 8800
- Release
- 8813
- Relocatable Structures
- 8811
- Reports
- 7234
- Request for Services
- 1550
- Space and Maintenance
- 1540
- Space Utilization Report
- 7234
- Utilization
- 8812

#### BUY AMERICA ACT
- 5125

- Canadian Supplies:
  - Bids/Proposals Evaluation Determination
  - Findings
  - End Products and Construction Materials:
  - Bids/Proposals Evaluation Determination

#### Calendars
- 1570

#### Calibration, Instruments
- 5330

#### California Institute of Technology (CALTECH)
- 1152

#### Canada, Buy America Act
- 5125

#### Career Development (Training)
- 3410

- ALSO SEE "Personnel"

#### Carrier (and Mode Selection)
- 6130

- ALSO SEE "Transportation"

#### CARTOGRAPHY
- Such as the Following:
- 7100

- Aerial Film
- Charts
- Aeronautical
- Hydrographic
- Composites
- Data Tapes
- Field Survey Notes
- Geodesy
- Globes and Models
- MAPS:
  - Computer
  - Correction
  - Hand Drawn
  - Lunar and Planetary
  - Microfilm
  - Published
  - Raised Relief
  - Products/Services, Acquisition of

---
CAS (Cost Accounting Standards) ........ 5130
... ALSO SEE "Cost Accounting" ...

CASE FILES
Agency Policy Changes .................. 1200
Classification Appeals ................ 1640
Contract Appeals ...................... 5133
Emergency Planning ................... 5800
Grants ................................ 1382
Informational Services ............... 1382
Map History ........................... 7100
Personnel ............................ 3000
Privacy Act Amendment ................. 4300
Property Disposal ..................... 4300
Research and Development .......... 7100
Surplus Property, Disposal of ...... 4320

Casualty Reports ..................... 1711
... ALSO SEE "Accidents" ...

Center ................................ 1107
... ALSO SEE "Field Installation" ...

CERTIFICATES
Cholera ................................ 1820
Classified Document Destruction ...... 1630
Eligibles (Employment) .............. 3300
... ALSO SEE "Personnel" ...

Classification Act System .......... 3500

CLERICAL CORRIGENDUM

CLASSIFIED
DOCUMENTS:
Access Control ........................ 1630
Accounting ............................ 9200
Administrative Correspondence ..... 1600
Container Security .................... 1620

INFORMATION/MATERIAL AND CONTROL:
Access Control ........................ 1630
Container Security .................... 1620
Correspondence ........................ 1600
Classification Program ............... 1640
Defense Information, Release ....... 1630
Destruction Certificates ............. 1630
Determination of ...................... 1640
Duplicating of ........................ 1490

Information Security Program .......
Committee ............................. 1152

Inventory (Property) ................. 4100
Nondisclosure Agreement ............. 1610
Printing of ........................... 1490

SYMPOSIA ............................ 1620
Guidelines for Security Measures At
Location of ............................

Requirements for
Restrictions on Attendance by Foreign
National or Representative at
Security Approval Request for

Clearance, Personnel .................. 1610

Clothing, Protective ................... 1700

CoF (Construction of Facilities) ... 8820
... ALSO SEE "Construction" ...

Commendation Letters ................. 3450

Commercial Aircraft ................... 1620
... ALSO SEE "Aircraft" ...

Commercial Products .................. 7500

COMMERCIAL PROGRAMS, OFFICE OF
Assistant Administrator;
Authority to Act for
Role and Responsibilities
Organization Chart

Commercialization, Space ............ 7500

Commissions .......................... 1150
### Index NRS

<table>
<thead>
<tr>
<th>No.</th>
<th>No.</th>
<th>Index NRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1150</td>
<td>1150</td>
<td>COMMITTEES and: BOARDS, COUNCILS, PANELS, ADVISORY</td>
</tr>
<tr>
<td>1150</td>
<td>1150</td>
<td>Establishment, Operation, Duration, of NASA Internal Committees</td>
</tr>
</tbody>
</table>

### ESTABLISHMENT/MANAGEMENT OF:

#### ADVISORY ............................................. 1156

Such as:
- Aeronautics Advisory Committee
- Aerospace Safety Advisory Panel:
- Environmental Quality Council;
- Historical Council;
- Life Sciences Council;
- Ocean Dynamics Subcommittee;
- Research and Technology Advisory Council;
- Space & Earth Science Committee;
- Space Applications Committee;
- Space Processing Ad Hoc Subcommittee;
- Space Science & Applications Steering Committee (SSASC);
- Space Systems and Technology Committee;
- Wage Committee.

#### INTRA-AGENCY ................................. 1152

Such as:
- Adjustment Board Committee;
- Advance Waiver Review Board (ICB);
- Appeals Board;
- Caltech/JPL Performance Evaluation;
- Engineering Management Council;
- Equal Opportunity Council;
- Inter-center Aircraft Operations Panel;
- Intercenter Committee on Automatic Data Processing;
- Inventions and Contributions Board;
- NASA Council:
- Operations and Engineering Panel;
- Parts Steering Committee;
- Planning & Program Integration;
- Policy Analysis;
- Security Classification Program;
- Space Medicine Board;
- Space Medicine Policy Board;
- Space Flight;
- Space Tracking and Data Systems Committee;
- Special Projects

#### INTERAGENCY ................................. 1154

Such as:
- AIM (Automated Information Management Council)
- Federal Executive Boards (FEB):
- Activities & Related Associations

#### NASA Internal Standing Committee for

Issuance of Permits to Ship Rocket Motors Containing Class B Explosives in a Propulsive State or with the Igniters Installed ............... 1152

#### COMMUNICATIONS

| Administrative | 2540 |
| Correspondence | 2500 |
| Cryptography | 2550 |
| Electric Power Supply | 2530 |
| (Policy On / Responsibility for) Emergency | 2530 |
| Administrative Control Situations | 2530 |

#### EQUIPMENT ........................................ 5117

Electronic Acquisition of Definition of Radio Frequency Allocation Assignment Energy Support

Management of Radio Frequency | 2570

Federal Telecommunications System | 2520

Long Distance Telephone Reports | 2530

Messages | 2530

NASA Communication System | 2520

Operation | 2510

Policy of / Procedures for Reports, Administrative | 2520

Telephone | 2530

#### RESPONSIBILITIES: ............................ 2520

Field Installations

Goddard Space Flight Center

Headquarters Administration Division

Headquarters Program Directors

Marshall Space Flight Center

Office of Space Tracking and Data Systems

Shuttle Communications | 8610

SYSTEMS, NASCOM | 2520

Administrative Procedures Definitions:

Administrative Communications

Administrative Telecommunications

Federal Telecommunications System (FTS)

NASA Communications System (NASCOM)

National Communications System (NCS)

Operational Communications

Telecommunications New Start

Telephone Calls | 2540

Telephone Co. Charge Certification | 9080

#### COMMUNIST

Dominated Countries & Areas:

Definition of | 1371

Security | 1620

Guests From | 1371

Travel To | 1620

Compensation, Employee Acceptance | 1900

Competition Advocacy Program | 1210

Competitive Placement Plan (GS-15 & Below) | 3335

... ALSO SEE "Personnel"

Complaints, Discrimination | 3700

... ALSO SEE "Personnel"
CONTPROLLER

Financial Management Division /
Function .................................. 1103

RESPONSIBILITIES:
Disposal of Foreign Excess
Personal Property .................. 4340
Financial Policies/Procedures/
Regulations .......................... 9210

COMPUTER PROGRAMS, NASA
DISTRIBUTION OF: .................. 2210
Authority for
Definitions
Policy for
Procedures for
Responsibilities for
Restrictions on Use of

Computer Resources Management .... 2400
... ALSO SEE "Automatic Data Processing" ...

Concealed Weapons ................ 1620

CONDUCT
Standards of .......................... 1900
(NASA Employee Handbook / NASA
Special Government Employees)
Illegal or Unethical, Investigation
and Reporting .......................... 9950
(Policy On / Responsibility for)
Safeguarding Crop Information .... 1900
Statements of Employment/Financial
Interests ............................. 1900

CONFERENCE(s)
Classified Symposia ............... 1620
External (Public) .................... 1389
News (Media) .......................... 1389
Publications ........................ 2220
Rooms/Auditoriums ................. 1542
Technical Symposia, Participation .... 1350
... ALSO SEE "Meetings" ...

CONFLICT
OF INTERESTS:
Aerospace Safety Advisory Panel .... 1156
Avoidance of .......................... 5103
Enforcement Procedures .......... 1900
Post Employment Regulations ...... 1900

Congress, U.S. ......................... 1450
Correspondence
Definition of
Policy for
Responsibility for

Congressional Space Medal of Honor .... 1020

CONSTRUCTION
Of Facilities (CoF):
Appropriations .......................... 7400
Approval, Authority for ............. 7330
Buy America Act ...................... 5125
CoF .................................. 8820
Design and Engineering .............. 8823
Fallout Shelters ...................... 1043
General (Information) .............. 8821
Major Construction .................. 8826
Minor Construction .................. 8827
Monuments, Proposed ............... 8823
NASA Facilities Programs ........... 8800
(Cooperation / Planning)
CONTRIBUTIONS, SCIENTIFIC AND TECHNICAL
AWARDS: ............................ 5700
Application for
Criteria for
Delegation of Authority for
Financial Accounting
Policy on
Presentation of
Under $1,000
Evaluation of
Hearing Procedures for
Controlled Substances Act of 1970 ..... 1815
Cooperative Agreements
(With Educational and Non-Profit
Institutions) .................... 1050
Copyrights (Responsibility) ........... 1103
... ALSO SEE "Printing" ...

CORRESPONDENCE
Accounting ........................ 9200
Budget ............................ 7400
Building and Space Maintenance ..... 1540
Communications ................... 2500
Congressional ...................... 1450
Cost Accounting .................... 9240
Emergency Planning ................. 1040
Expenditure Accounting ............. 9200
Facilities, Security ................. 7300
Grants ............................. 5800
Handbook .......................... 1450

HOUSING:
Management of Personnel Quarters/Subsistence 3503
Informational Services ............. 1392
Management of Executive Instructions on 1451
Motor Vehicle ...................... 6700
Pay ................................ 9620
Personnel .......................... 3000
Personnel Security ................. 1610
Plant Accounting ................... 8800
Printing, Administrative .......... 1420
Procurement ........................ 5100
Property Disposal ................. 4300
Research and Development .......... 7000
Security and Protective Service .. 1600
Space and Maintenance ............. 1540
Stores Accounting ................ 1570
Surplus Property .................. 4300
Training ........................... 3410
Transportation ........................ 6000
Travel ............................. 9700
White House Office ................. 1450

COST ACCOUNTING STANDARDS (CAS)
Administration .................. 5130
Reports ............................ 9200

COSTS
Contractor Reporting Procedures for. 9501
Data, Waivers On ................... 5127
Council on Environmental Quality ...... 8800
Council on Historic Preservation .... 1070
Councils ............................ 1150
... ALSO SEE "Committees" ...

CRYPTOGRAPHIC
Communication ...................... 2550
Information, Access to/Definition . 1610
Transmission of ................... 1620

CSC (Civil Service Commission)
Responsibilities .................... 3510
... ALSO SEE "Personnel" ...

Currency ............................ 9393
(Country-Use / Definitions / Excess / Foreign / Near-Excess / U. S.)

Data Acquisition (Communication) ...... 2520
... ALSO SEE "Space Tracking" ...

Data Processing ..................... 2400
... ALSO SEE "Automatic Data Processing" ...

Declassification ..................... 1640
... ALSO SEE "Security" ...

Decorations (Foreign), Acceptance of .. 1030
(Definitions / Policy for)

DEFENSE, DEPARTMENT OF (DoD)
Air Force:
Agreement--Inertial Upper Stage .. 8020
Space Transportation System Protection .... 8610
Army, Corps of Engineers ........... 8811
General (DoD) ...................... 1316
Incentive Contracting Guide .......... 5104
STS National Resource Protection .... 8610
Universal Documentation System ...... 8610

Dentistry, Astronauts ................. 8900
... ALSO SEE "Health" ...

DIRECTIVES: .......................... 1410
Annual Review
Applicability to JPL:
Procedures for
Responsibility for
Handbook:
Complementary Manuals
NASA Handbooks (NHB)
NASA Management Instructions (NMI)
NASA Notices (NN)
List and Expiration Dates
Management Directives Handbook
Master Set of
Operating Principles
Policy
Purpose
Responsibilities
System, Management of
Disabled Veterans ................................ 3300
Disabling Injuries ................................ 1700
(classification of / definition of)
Discrimination Complaints ....................... 3700
Disease & Injury Exposure Control
(Astronauts) ................................ 8900
... ALSO SEE "Occupational Medicine" ...
Distinguished Public Service
Medal (DPSM) .................................. 3451
DOCUMENTS
Federal Register Publication .................. 1412
Delegation of Authority for
Legal Requirement for / Policy
Responsibility for
Page/Reprint Charge ....................... 9280
Funding of
Policy on
Scientific and Technical .................. 2220
Technical Information, Professional
Journals / Page Charge .................. 9280
DoD (Department of Defense) ............... 1316
... ALSO SEE "Defense" ...
DOWNGRADING
Classification Program ....................... 1640
Classified Information/Marking ........ 1620
... ALSO SEE "Security" ...
DPSM (Distinguished Public Service
Medal) ........................................ 3451
DRAWINGS
Alteration (CoF) .............................. 8828
As-Built .................................. 8800
Contract .................................. 5100
Design & Engineering (CoF) .............. 8823
Maps ...................................... 7100
Measured .................................. 8000
Preliminary:
Real property ............................ 8800
Research and Development ............. 7100
Federal Structures Design ............. 7300
Presentation (To Management) .......... 1200
Published (Manuscript) ................. 2220
Repair .................................. 8830
Shop ..................................... 7000, 8000
Space Assignment ......................... 1540
Drug Abuse .................................. 3792
History Policy Program Components
Responsibilities
Drug Enforcement Administration,
Regional Offices .......................... 1815
Drugs .................................. 1815, 3792
Dryden Flight Research Facility,
ARC Responsibilities ..................... 1107
... ALSO SEE "Field Installations"
Duplicating ................................ 1490
Definition of
Contract-Grant Documentation
Regulations
Unlawful ... ALSO SEE "Printing" ...

Duty Stations, Travel to .................. 9710

Earth Resources Survey Program
Imagery .................................. 8000
Policy on
Responsibility for
Sale of Remote Sensing Data,
Delegation of Authority ............. 1050
Easements, Granting Of ............. 8813

EDUCATION
Exhibits Program ......................... 1387
Information Products ................. 1380
Personnel Training/Development ..... 3410
Programs ............................ 1392
... ALSO SEE "Training"
EEO (Equal Employment Opportunity)
Policy .................................. 1103
... ALSO SEE "Personnel"

ELECTRONIC
Crimping and Wire Wrap .................. 5300
Data Processing .......................... 2400
... ALSO SEE "Automatic Data Processing"
EQUIPMENT/PARTS:
Acquisition of ......................... 5104
Basic Policy For ....................... 5320
Background Definitions
Electronic Parts
Flight Hardware
Implementation
Mission Essential Ground Support
Equipment
Off-the-Shelf Equipment
Harnesses .................................. 5300
Interconnector Cables
Printed Wiring Boards
Conformal Coating / Staking
Soldered Electrical Connections
STANDARD PARTS PROGRAM: ............ 5320
Implementation
Lead Center/User Center Tasks
Responsibilities
SURVEILLANCE: ................................ 2530
Communication Investigations
Meetings
Telephones
Security .............................. 1600
Wiring .................................. 5300
Elevators, Inspection of .............. 8833
EMERGENCY
Administrator, Authority to
Act For .................................. 1162
COMMUNICATION SERVICES DURING: .... 2530
Allocation
Emergency Circuit Requirement
Policy on
Procedures for
Reassignment
Restoration/Priority
Validity Authority
COMMUNICATIONS TRAFFIC,
ADMINISTRATIVE CONTROL: ............ 2530
Essential Traffic
Minimize
NCS Circuit Requirement/
Component Networks
NCS/DCA Operations Center
(NCS/DCAOC)
NCS Operating/Using Agency
Nonessential Traffic
Policy On
Responsibility for
Telecommunications
Delegation of Emergency Authority .. 1040
LINES OF SUCCESSION: ............... 1160
Approval/Documentation for
General Provision for
Indoctrination for
Requirements for
PLANNING:
Casualty Reporting ....................... 1044
Civil Defense .................................. 1041
Correspondence ............................. 1040
Directives ................................. 1040
Directives Reference Files .............. 1040
Fallout and Fallout Shelter ............. 1043
Mobilization Readiness .................. 1046
Operations Tests ...................... 1046
Plans .................................. 1040
Reports ................................. 1040
Procedures/Notification and Alert
System .................................. 1590
REGIONAL PREPAREDNESS COMMITTEES: .. 1040
Designations for
Functions of
Representatives
Warden Organization ................... 1042
EMPLOYEE (Personnel) .................... 3000
... ALSO SEE "Personnel" for Related
Topics ...
Employee Development .................. 3400
Employee Inventions ....................... 3450
Employee-Management Relations ......... 3711
... ALSO SEE "Personnel Relations" ...
Employee Participation in Scientific
and Engineering Symposia ............... 1350

EMPLOYEE PERFORMANCE AND UTILIZATION .. 3410
Employee Development
Supervisory Training
Training Outside the U.S.,
Responsibility for Approval
Training Within the U.S.,
Responsibility for Approval
Upward Mobility Program
Employee Personal Property Claims ..... 2080
Employee Recognition and Incentives ... 3450
Employee Incentives ..................... 3451

EMPLOYMENT ................................ 3300
Experts and Consultants .................. 3304
Outside .................................. 1900
Outside Applicants ....................... 3335
Personal Service Contracts,
Handicapped Individuals ................ 3300
Post Employment Regulations ........... 1900
Power of Appointment and Removal: .. 3311
Administering Oaths of Office
Delegation of Authority
Excepted Positions
Recruitment/Selection/Placement
Intergovernmental Personnel Act
of 1970 .................................. 3334
Promotion and Internal Placement
Competitive Placement Plan for
Positions GS-15 and Below ........... 3335

ENGINEERING ................................ 8820
Construction ................................ 8820
Facilities Handbook ...................... 7320
Reports, CoF Preliminary ............... 8820

ENVIRONMENTAL ............................. 8800
Council ................................. 8800
Health Program ......................... 1800
Quality, Assessment Guidelines .......... 8800
National Environmental Policy Act
Preparation of Environmental
Assessments

EO (Equal Opportunity), Office of .... 3700
... ALSO SEE "Equal Opportunity" ...

EQUAL OPPORTUNITY ...................... 2013

EQUAL ACCESS TO JUSTICE ACT ............... 2013

EO (Equal Opportunity), Office of .... 3700
... ALSO SEE "Equal Opportunity" ...

EMPLOYEE (Personnel) .................... 3000
... ALSO SEE "Personnel" for Related
Topics ...
Employee Development .................. 3400
Employee Inventions ....................... 3450
Employee-Management Relations ......... 3711
... ALSO SEE "Personnel Relations" ...
Employee Participation in Scientific
and Engineering Symposia ............... 1350

EMPLOYEE PERFORMANCE AND UTILIZATION .. 3410
Employee Development
Supervisory Training
Training Outside the U.S.,
Responsibility for Approval
Training Within the U.S.,
Responsibility for Approval
Upward Mobility Program
Employee Personal Property Claims ..... 2080
Employee Recognition and Incentives ... 3450
Employee Incentives ..................... 3451

EMPLOYMENT ................................ 3300
Experts and Consultants .................. 3304
Outside .................................. 1900
Outside Applicants ....................... 3335
Personal Service Contracts,
Handicapped Individuals ................ 3300
Post Employment Regulations ........... 1900
Power of Appointment and Removal: .. 3311
Administering Oaths of Office
Delegation of Authority
Excepted Positions
Recruitment/Selection/Placement
Intergovernmental Personnel Act
of 1970 .................................. 3334
Promotion and Internal Placement
Competitive Placement Plan for
Positions GS-15 and Below ........... 3335

ENGINEERING ................................ 8820
Construction ................................ 8820
Facilities Handbook ...................... 7320
Reports, CoF Preliminary ............... 8820

ENVIRONMENTAL ............................. 8800
Council ................................. 8800
Health Program ......................... 1800
Quality, Assessment Guidelines .......... 8800
National Environmental Policy Act
Preparation of Environmental
Assessments

EO (Equal Opportunity), Office of .... 3700
... ALSO SEE "Equal Opportunity" ...

EQUAL OPPORTUNITY ...................... 2013

EQUAL ACCESS TO JUSTICE ACT ............... 2013

EO (Equal Opportunity), Office of .... 3700
... ALSO SEE "Equal Opportunity" ...

EMPLOYEE (Personnel) .................... 3000
... ALSO SEE "Personnel" for Related
Topics ...
Employee Development .................. 3400
Employee Inventions ....................... 3450
Employee-Management Relations ......... 3711
... ALSO SEE "Personnel Relations" ...
Employee Participation in Scientific
and Engineering Symposia ............... 1350
EQUIPMENT
Automatic Data Processing (ADP) .......... 2410
Binding ................................... 1490
Communication/Acquisition .......... 5117
Electronic:
Acquisition of .......................... 2410
Basic Policy for ...................... 1490
EVS (Equipment Visibility System) 9400
Information Processing ................ 2410
Acquisition Plans
Disposal of Excess Inventory Control
Reporting Requirements
Inspection ................................ 8833
Boilers
Elevators
Lists of ................................... 1490
Management Manual (Installations) ... 4200
Contractors ............................... 5400
Marine, Maintenance and Operation .. 6600
Packaging Requirements ............... 6000
Printing ................................... 1490
Property and Supply ..................... 4000
Property Custodian User's Guide ... 4200
Protective ............................... 4210
Reporting Requirements ............... 6000
Transportation Requirements .......... 8833
Utilization of ............................ 4310
Policy for ................................ 4000
Requirements for Visibility System Establishment 4000
Erasable Media ........................... 2400
... ALSO SEE "Automatic Data Processing"
Erroneous Payments of Pay, Claims for . 9645
Estimates, Budget ...................... 7422
... ALSO SEE "Financial Management"
Ethics, Employee ......................... 1900
EVS (Equipment Visibility System) ... 4000
EVALUATION
Employee Performance ..................... 3400
Military Personnel Reports .......... 3280
... ALSO SEE "Personnel"
EXCHANGES, NASA PERSONNEL .... 9050
Activities of Authorized Patrons of
Establishment/Objective of
Exceptions/Variaions of
Exchange Council; Duties of
Facilities of Employee Welfare
Activities
Funding Authority
Insurance for
Procurement Authority of
Resale Policy of
Responsibilities:
Associate/NASA Comptroller
Installation Directors
NASA Exchange Council
Taxes on
Termination Policy on

EXPERIMENT ACCOUNTING
Allotment ................................ 9230
Correspondence .......................... 9200
Legers (General) ......................... 9220
Machine-Readable Files (ADP) ........ 9000
Posting and Control ..................... 9000
Experts (Employment of) .............. 3304
... ALSO SEE "Consultants"
Export Control, Technology .......... 2190
EXTERNAL RELATIONS
Associate Administrator, Office of
Authority to Act for .......................... 1103
Responsibilities:
Appointment of Delegates to
Foreign Conferences ....................... 1360
Cartographic Products .................... 7100
Lines of Succession ....................... 1103
NASA Council ............................. 1152
Organization .............................. 1103
Public Affairs,
Release of Information .................. 1382
... ALSO SEE "Privacy Act"
Space Act Agreements ...................... 1050
Television Development Division .... 1103
EXTRATERRESTRIAL ...................... 8020
Administrative Actions
Contamination:
Lunar and Planetary
Outbound Spacecraft
Court or Other Processes
Definitions
Administrator
Exposure
NASA
Quarantine
United States
Mapping ................................ 7100
... ALSO SEE "Cartography"
Quarantine Policy ....................... 8020
Violations of Policy Provisions ...... 8020

FACILITIES
ENGINEERING:
Handbook .................................. 7320
Reports, COF Preliminary .............. 8820
Field Installations Master Plans ... 7232
Inspections and Surveys .............. 8833
Location .................................. 8800
Policy
Responsibilities
Office of ............................... 7232
Policy On ................................ 8800
Program Planning ....................... 8800
Responsibilities ......................... 1130, 8811
Security ................................ 1600
Technical Catalogue ..................... 8800
Utilization Program ..................... 7234
... ALSO SEE "Construction"
### Fallout Shelters
- FBI (Federal Bureau of Investigation)  
  ALSO SEE "Federal"
- Feasibility Studies
- FEB (Federal Executive Board)  
  ALSO SEE "Committees"

### FEDERAL
- Acquisition Regulation Supplement  
  Budget System  
  ALSO SEE "Budget" and "Financial Management"
- Bureau of Investigation (FBI)  
  Personnel Security Referrals
- Cataloging  
  (Utilization and Maintenance of) Employees' Labor Management Relations Program
- Executive Board Activities
- Insurance Contribution Act (FICA)
- Mail, Privileges/Restrictions on
- Register (NASA Documentation)
- Standard Requisitioning and Issue Procedures (FEDSTRIP)
- Telecommunications System (FTS)
- Water Pollution Control Administration

### FEDSTRIP (Federal Standard Requisitioning and Issue Procedures)

### FIELD INSTALLATIONS (CENTER)
- Chief Counsels
- Classified Information/Safeguarding
- Communication Responsibilities
- Delegations of Authority, Appropriations

### DIRECTORS OF:
- Responsibilities:
  - Facilities Master Plan
  - GIDEP Representative
  - Micrographics Management
  - News Releases
  - Position Classification
  - Real Property Acquisition
  - Statements of Employment/Financial Interests
  - Stores Stock Management
- Facilities
- GIDEP Program
- History Program
- Information Processing
- Responsibility

### INSTALLATIONS:
- Ames Research Center (ARC)
- Goddard Space Flight Center (GSFC)
- Johnson Space Center (JSC)
- Kennedy Space Center (KSC)
- Langley Research Center (LaRC)
- Lewis Research Center (LeRC)
- Marshall Space Flight Center (MSFC)
- National Space Technology (NSTL) Laboratories

### INDEX NRS

<table>
<thead>
<tr>
<th>Index NRS No.</th>
<th>Field Installations Continued:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1043, 7400</td>
<td>Micrographics Management 2314</td>
</tr>
<tr>
<td></td>
<td>News Releases 1380</td>
</tr>
<tr>
<td></td>
<td>Organization 1107</td>
</tr>
<tr>
<td></td>
<td>Procurement Officers 5311</td>
</tr>
<tr>
<td></td>
<td>Property and Supply Officers 4100</td>
</tr>
<tr>
<td></td>
<td>Public Affairs 1380</td>
</tr>
<tr>
<td></td>
<td>Roads, Naming Of 1022</td>
</tr>
<tr>
<td></td>
<td>Roles and Responsibilities 1100</td>
</tr>
<tr>
<td></td>
<td>RTOP Management System 7100</td>
</tr>
<tr>
<td></td>
<td>Security Instructions/Requirements 1620</td>
</tr>
<tr>
<td>1610</td>
<td>Field Investigations</td>
</tr>
<tr>
<td></td>
<td>ALSO SEE &quot;Investigations&quot;</td>
</tr>
<tr>
<td>1442</td>
<td>Files Management Program</td>
</tr>
<tr>
<td></td>
<td>Definitions</td>
</tr>
<tr>
<td></td>
<td>Maintenance</td>
</tr>
<tr>
<td></td>
<td>Uniform Files Index</td>
</tr>
</tbody>
</table>

### FILMS
- Agency Activities 1300
- Duplicates 2600
- Educational 1392
- Engineering 8000
- Grants 5800
- Outtakes 2600
- Policy 1200
- Recruiting 3330
- Research and Development 7000
- Scientific Medical 8900
- Stock Footage 2600
- Surveillance 1600
- Training 3400

### Financial Interests, Employee 1900

### FINANCIAL MANAGEMENT
- Accounting & Reporting Requirements
- Installation Year-End 9390
- Administrative Control of Appropriations and Funds: 9050
  - Administrator's Fund
  - Exchange Activities Procedures for Violations, Reporting of Appropriations 9100
- Auditing 9900
- Balance-of-Payments, International 9380
- Budget Administration Manual 7400
- Budget Estimates 7422
- Congressional Budget 7450
- Contract Administration, Related Field Services: 7410
- Budgeting
- Funding
- Payment
- Policy
- Resources Authorizations
- Contractors Reports System 9300
- Cost & Performance Data
- Financial Management Reports
- Currency, Foreign 9393
- Definitions:
  - Country-Use Currencies
  - Excess/Short-Excess
  - Action on Responsibility for U.S. Currencies
FINANCIAL MANAGEMENT CONTINUED:

DIRECTOR OF (FINANCIAL MANAGEMENT DIVISION)

Authority of 9210
Objectives of 1103
Reporting of 9200
Responsibilities 1103
Organization Chart 1103
Division, Office of the Comptroller, 1103
Foreign Currency 9380

MISCELLANEOUS FINANCIAL MATTERS:

Allowances:
Notaries Public 9600
Payroll, Leave, and 9620

Authorizations:
Annual Obligation Reports 9040
Certification 9630
Payments/Vouchers, Certification 9080
Telephone Company Charges 9080

NASA Participation in Congressional Hearings (Budget) 7460
Policies/Objectives 9000
User Charges 9080

FINDING AIDS
Audiovisual 1521
Cartographic 7100
Design and Construction 8823
NASA and NHQ Forms Index 1420
Scientific and Technical 2200
Uniform Files Index 1442

Fire Protection 1700

FIREARMS 1620

Authorization to Carry
Control and Issuance:
Definitions:
Certifying Official
Concealed Firearm
Unconcealed Firearm
Possession:
Certification for
Commercial Aircraft Limitations
Conditions for
Proficiency Maintenance
Qualifying Procedures/Standards
Record Keeping
Responsible for
Storage Requirements
Training
Weapon Standards

FLAGS 1020

Half-Staff
NASA
Rules
United States

Flammability, Odor, and Offgassing
Requirements and Test Procedures for
Materials in Environments that Support
Combustion 8060

Flexitime Attendance 3600

FLOOD HAZARDS

NASA Facilities Budget Estimate
Guidelines for 7400
Floodplain and Wetland Management 8800

FOIA (Freedom of Information Act) 1382

FOREIGN AFFAIRS

Aeronautical and Space Program 1362
Decorations, Acceptance of 1030
Exchange Visitors Employed by NASA Contractors 1371
Policy
Waiver of Residence Abroad
Exhibits Request 1387
Intergovernmental Negotiations 1360
Technology Utilization Material, Access to 2110
VISITORS ACTIVITIES COORDINATION:
Communist Dominated Countries and Areas 1371
Foreign Nationals
Foreign Representative
Responsibility for

... ALSO SEE "International" ...

Foreign Currency 9380

... ALSO SEE "Financial Management" ...

FOREIGN TRAVEL

Approval of 9710
College/University Personnel 9720
Communist-dominated Countries (To) 1620
Approval of
Definition
Scope
Purpose
Health Services 1820
Nonprogram Activities 9710
Outside Meetings
Requirements
Studies/Training
Trip Reports

FORMS AND REPORTS, PREPARATION OF
Announcement of Opportunity 7100
MANAGEMENT PROGRAM 1420

Definitions:
Forms
Installation Form
NASA Form
Optional Form
Standard Form
NASA/NHQ Prefixed Forms Index
Objectives
Policy
Procedures
Responsibilities
Marine Equipment 6600
RTOP 7100
Statements of Work 5600

Forms Management 1420

FREEDOM OF INFORMATION ACT (FOIA) 1382

(Agency Records, public access to)
Administrative
Appeals
Control
Reports
Requests

Freight 6100

FTS (Federal Telecommunications System) 2530

Full Faith and Credit Certificates 2000
Functional Management
Statements .............................. 1240

Fund-Raising ............................ 3940

Funding Technical Information Documents
Pages Charges/Reprinting ............. 9280

Funds, Administrative Control of ...... 9050
... ALSO SEE "Financial Management"

FURNITURE/FURNISHINGS, OFFICE .... 4220
Acquisitions
Approval Requirements
Assignment Criteria
Definitions
Executive Office/Furniture and
Furnishings
Federal Supply Schedules
GS-15 and Above or Equivalent
Policy
Standards for
Unitized Wood Furniture

GAG (Government Advisory Group) .... 5310

Gambling, Employee .................... 1900

GAO (General Accounting Office) ..... 1325
Audits ..................................... 1325, 9920
Congressional Investigations for ... 1325
Financial Relationship .............. 7400
Policy ..................................... 1325
Relationships with
Release of Information/Records (To)
Policy/Ground Rules
Response to Requests
Special Cases
Statutory Authority
Responsibility to
Working Procedures with
... ALSO SEE "General"

Gas / Gasoline Sales / Tickets ..... 6700

GENERAL:
ACCOUNTING OFFICE .................. 1325
Audits ..................................... 9920
Congressional Investigations For ... 1325
Financial Relationship .............. 7400
Machine Readable Files .............. 2400
Notices of Exception ................. 1325
Release of Information/Records To. 1325
ADMINISTRATION .......................... 1020
(Seal, Insignia, and Flags)
COUNCIL, OFFICE OF: ................. 2000
Assistant, Responsibilities:
Field Installations
Litigation
Patents
Delegation of Authority .............. 2000
Federal Register Documentation ... 1412
Organization, Functions, and Chart
Patents/Inventions, Delegation of
Authority For Acceptance ........... 2000
Responsibilities ....................... 2000

SERVICES ADMINISTRATION (GSA):
Financial Relationship .............. 7400
Regional Offices ....................... 8811

Geodesy .................................. 7100
... ALSO SEE "Cartography"

GIDEP (Government Industry Data Exchange
Program) ................................ 5310

GIFTS
Acceptance of:
Conditions for ....................... 1210
Employees ............................ 1900
Foreign .............................. 1030
Policy .................................... 1900

Globes ................................... 7100
... ALSO SEE "Cartography"

Goddard Space Flight Center (GSFC)
Communications Responsibilities ... 2520
Director: ............................... 1107
Authority to Act for
Objectives
Responsibilities
Organization Chart ..................... 1107
... ALSO SEE "Field Installations"

GOVERNMENT
GAG - Government Advisory Group
for GIDEP .............................. 5310
GIDEP - Government Industry Data
Exchange Program ...................... 5310
Losses In Shipment Act .............. 2080
... ALSO SEE "Transportation"
Printing Office, Standards (GPO) ... 1490
Property Damage/Loss ............... 2080, 4020
Quality Assurance Handbook ......... 5300
Supplier Operations, Management of . 5330

GRANTS
Applications for ....................... 5800
Case Files (Program Management) ... 8300
Correspondence ....................... 8310
Correspondence (General) ........... 5800
Handbook ................................ 5800
Evaluation of Proposals (Program) .. 8320
Machine-Readable Files .............. 2400
Procurement, Responsibility for ... 5101
Products/Reports ...................... 2230
Termination of University .......... 8340
... ALSO SEE "Procurement"
University Program .................. 8320

Graphic Presentations, Standards and
Guidelines ............................. 1430
... ALSO SEE "Audiovisual"

Gratuities, Employee Acceptance .... 1900
... ALSO SEE "GIFTS"

GRIEVANCES ............................. 3711
Employee, Complaint Resolution
Delegation of Authority to Act On

GROUP LIFE INSURANCE
Personnel/Employees ................... 3870
Travel Related .......................... 9730
GSA (General Services Administration)
Regional Offices .................. 8811
... ALSO SEE "General" ...

GSFC (Goddard Space Flight Center) .... 1107
... ALSO SEE "Goddard Space Flight" ...

GUARD Assignment .................. 1600
Facility Checks ................... 1620
Service Control ................... 1600
Logs and Registers ................. 1680

Guide for Inservice Inspection of
Ground-Based Pressure Vessels and
Systems ............................. 1700

Guns ................................ 1620
... ALSO SEE "Firearms"

Handicapped Individuals .......... 2090, 3300

HEADQUARTERS
ADMINISTRATION:
Classified Information/Safe-
eguarding Responsibilities ...... 1620
Consulting Services Contracts/Responsibilities .... 5117

DIRECTOR OF HQ ADMINISTRATION:
Authority to Approve Labor-
Management Agreements .......... 3711
Responsibilities ................. 1102
Materials Inventory Management .. 4100
Organization Chart ................ 1102
Field Installations Organization . 1107
Research and Technology Activity .. 7100
RTOP Management System ........... 7100
Science Activity .................. 7100

HEALTH
Alcohol/Drug Abuse Program .... 3792
Civilian Programs ............... 3890
Clinical Facilities ............... 1814
Controlled Drugs, List of ........ 1815
Disaster Medical Planning ........ 1890
Dispensary Logs .................. 1814
Environmental Health Program ... 1870
Health Record Cards .............. 1800
Hearing Conservation in Noise ...
Individual Cases ................. 1820
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

HEALTH, EDUCATION AND WELFARE (HEW)
(Health and Human Services)
Department of:
Air Pollution Division .......... 8800
Extraterrestrial Exposure, ...
Quarantine For ................... 8020
Hearing Conservation ........... 1820

Historian, Duties of ............ 1070

Historical Advisory Committee .... 1156

HISTORY PROGRAM
Artifacts: .......................... 4310
Definition
Disposition
Lists, Preparation
NASA Artifacts Committee
Policy
Procedures
Responsibilities
Director, Responsibilities ..... 1070
Policy
Program

Holiday Designation .............. 3610

Honor Awards ...................... 3451
... ALSO SEE "Awards"

Honorariums, Employee Acceptance ... 1900

Household Goods/Effects, Shipment of .. 9760

HOUSING:
And Personnel Quarters-Management of 8814
Maintenance and Repair ........ 8830
Reports .......................... 8845
Requests (EEO) ................... 3713

HUMAN RESEARCH: ...................... 7100
Authorization for
Policy/Procedure
Committee on
Content of Protocol for
Definitions
Injuries/Illness or Disease (Reports on)
Legal/Safety/Medical Office (Reviews of)
Procedures Changes, Reports on
Protocols/Authorization of
Requirements/Exceptions/Waivers
Subjects, Rights of
Voluntary Informed Consent of
Director, Responsibilities of ..... 8811
<table>
<thead>
<tr>
<th>Index NRS</th>
<th>No. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Index NRS</td>
<td>No. No.</td>
</tr>
<tr>
<td>Identification-Badge Card</td>
<td>1620</td>
</tr>
<tr>
<td>(Identification Credentials)</td>
<td></td>
</tr>
<tr>
<td>Illegal or Unethical Conduct, Investigation and Reporting of</td>
<td>9950</td>
</tr>
<tr>
<td>... ALSO SEE &quot;Conduct&quot; ...</td>
<td></td>
</tr>
<tr>
<td>IMAGERY</td>
<td></td>
</tr>
<tr>
<td>Earth Resources Survey Program</td>
<td>8005</td>
</tr>
<tr>
<td>Remote Sensing Imagery</td>
<td>7100</td>
</tr>
<tr>
<td>Immigrant Aliens, Definition of</td>
<td>1610</td>
</tr>
<tr>
<td>Importing of Space Articles</td>
<td>8610</td>
</tr>
<tr>
<td>Incentive Awards</td>
<td>3451</td>
</tr>
<tr>
<td>... ALSO SEE &quot;Awards&quot; ...</td>
<td></td>
</tr>
<tr>
<td>Incentive Contracting Guide</td>
<td>5117</td>
</tr>
<tr>
<td>... ALSO SEE &quot;Procurement&quot; ...</td>
<td></td>
</tr>
<tr>
<td>Indebtness, Employee</td>
<td>1900</td>
</tr>
<tr>
<td>INDEX(es)</td>
<td></td>
</tr>
<tr>
<td>NASA Management Instructions (NMI)</td>
<td>1410</td>
</tr>
<tr>
<td>NASA and NHQ Prefixed Forms</td>
<td>1420</td>
</tr>
<tr>
<td>Uniform Files</td>
<td>1442</td>
</tr>
<tr>
<td>... ALSO SEE &quot;Finding Aids&quot; ...</td>
<td></td>
</tr>
<tr>
<td>INDUSTRIAL</td>
<td></td>
</tr>
<tr>
<td>Labor Relations Manual, Contracts</td>
<td>5200</td>
</tr>
<tr>
<td>Labor Relations Manual, Program Management</td>
<td>8020</td>
</tr>
<tr>
<td>Products/Services, Acquisition of</td>
<td>7410</td>
</tr>
<tr>
<td>Relations, Office Of, Director</td>
<td>1102</td>
</tr>
<tr>
<td>Security</td>
<td>1650</td>
</tr>
<tr>
<td>Ventilation Handbook</td>
<td>7320</td>
</tr>
<tr>
<td>Wind Tunnel Utilization</td>
<td>1300</td>
</tr>
<tr>
<td>Inflationary Impact Evaluation</td>
<td>7400</td>
</tr>
<tr>
<td>INFORMATION:</td>
<td></td>
</tr>
<tr>
<td>Acknowledgement Files</td>
<td>1380</td>
</tr>
<tr>
<td>Audio Visual News Material</td>
<td>1383</td>
</tr>
<tr>
<td>Agency Records, Public Access</td>
<td>1382</td>
</tr>
<tr>
<td>Bibliographies</td>
<td>1070</td>
</tr>
<tr>
<td>Congressional</td>
<td>1450</td>
</tr>
<tr>
<td>Correspondence</td>
<td>1450</td>
</tr>
<tr>
<td>Executive Instructions on</td>
<td>1451</td>
</tr>
<tr>
<td>Control Systems</td>
<td>2340</td>
</tr>
<tr>
<td>Freedom of</td>
<td>1382</td>
</tr>
<tr>
<td>Information Management System</td>
<td>2300</td>
</tr>
<tr>
<td>Internal Communications</td>
<td>1480</td>
</tr>
<tr>
<td>Internal Control Of</td>
<td>1200</td>
</tr>
<tr>
<td>NASA Release to GAO</td>
<td>1325</td>
</tr>
<tr>
<td>Personnel, Release of</td>
<td>3294</td>
</tr>
<tr>
<td>Press Conference Transcripts</td>
<td>1389</td>
</tr>
<tr>
<td>Press Releases</td>
<td>1380</td>
</tr>
<tr>
<td>Privacy Act</td>
<td>1382</td>
</tr>
<tr>
<td>PROCESSING, Management Of</td>
<td>2410</td>
</tr>
<tr>
<td>Resources Management Handbook</td>
<td></td>
</tr>
<tr>
<td>Acquisition Plans</td>
<td></td>
</tr>
<tr>
<td>Inventory Controls</td>
<td></td>
</tr>
<tr>
<td>Policy and Responsibilities</td>
<td></td>
</tr>
<tr>
<td>Privacy and Security Data</td>
<td></td>
</tr>
<tr>
<td>Software Management</td>
<td></td>
</tr>
<tr>
<td>Security Assurance</td>
<td></td>
</tr>
<tr>
<td>Program Management Case Files</td>
<td>8000</td>
</tr>
<tr>
<td>Public Appearances</td>
<td>1384</td>
</tr>
<tr>
<td>PUBLICATIONS:</td>
<td></td>
</tr>
<tr>
<td>Educational and Public</td>
<td>1392</td>
</tr>
<tr>
<td>Scientific and Technical</td>
<td>2220</td>
</tr>
<tr>
<td>Release to GAO:</td>
<td>1325</td>
</tr>
<tr>
<td>Policy/ground Rules</td>
<td></td>
</tr>
<tr>
<td>Response to Requests</td>
<td></td>
</tr>
<tr>
<td>Special Cases</td>
<td></td>
</tr>
<tr>
<td>Statutory Authority</td>
<td></td>
</tr>
<tr>
<td>Release to News Media</td>
<td>1380</td>
</tr>
<tr>
<td>Retrieval/Records Disposition</td>
<td>1441</td>
</tr>
<tr>
<td>Requests</td>
<td>1382</td>
</tr>
<tr>
<td>SCIENTIFIC AND TECHNICAL:</td>
<td></td>
</tr>
<tr>
<td>Definition</td>
<td>2220</td>
</tr>
<tr>
<td>Distribution and Availability</td>
<td></td>
</tr>
<tr>
<td>Categories</td>
<td>2230</td>
</tr>
<tr>
<td>Document Availability</td>
<td></td>
</tr>
<tr>
<td>Authorization</td>
<td></td>
</tr>
<tr>
<td>Definitions</td>
<td></td>
</tr>
<tr>
<td>Policy</td>
<td></td>
</tr>
<tr>
<td>Responsibilities</td>
<td></td>
</tr>
<tr>
<td>GIPEP</td>
<td>5310</td>
</tr>
<tr>
<td>Policy</td>
<td>2220</td>
</tr>
<tr>
<td>Presentation/Publication, Authority for</td>
<td></td>
</tr>
<tr>
<td>Publication, Definitions</td>
<td></td>
</tr>
<tr>
<td>Related Policies on</td>
<td></td>
</tr>
<tr>
<td>Responsibilities</td>
<td></td>
</tr>
<tr>
<td>Space Science Flight Data</td>
<td>8030</td>
</tr>
<tr>
<td>Senior Management, Direct Channel To</td>
<td>3711</td>
</tr>
<tr>
<td>Speeches</td>
<td>1385</td>
</tr>
<tr>
<td>Television, Use for Information Dissemination</td>
<td>1103</td>
</tr>
<tr>
<td>Injuries, Compensation For</td>
<td>3810</td>
</tr>
<tr>
<td>INSIGNIA, OFFICIAL NASA</td>
<td></td>
</tr>
<tr>
<td>Establishment/Description of</td>
<td>1020</td>
</tr>
<tr>
<td>(Use of, Policy On)</td>
<td></td>
</tr>
<tr>
<td>Printing Standards for</td>
<td>1490</td>
</tr>
<tr>
<td>Reimbursable Launch Vehicles</td>
<td>8610</td>
</tr>
<tr>
<td>INSPECTIONS:</td>
<td></td>
</tr>
<tr>
<td>Boilers</td>
<td>8833</td>
</tr>
<tr>
<td>Buildings</td>
<td>8834</td>
</tr>
<tr>
<td>Elevators</td>
<td>8833</td>
</tr>
<tr>
<td>Government Owned Facilities</td>
<td>8825</td>
</tr>
<tr>
<td>NASA Property, Persons</td>
<td>1600</td>
</tr>
<tr>
<td>Personnel</td>
<td>3273</td>
</tr>
<tr>
<td>Policy</td>
<td>8833</td>
</tr>
<tr>
<td>Pressure Vessels</td>
<td>1700</td>
</tr>
<tr>
<td>Privately Owned Facilities</td>
<td>8833</td>
</tr>
<tr>
<td>INSPECTOR GENERAL (IG):</td>
<td></td>
</tr>
<tr>
<td>Audit Policies/Procedures</td>
<td>9910</td>
</tr>
<tr>
<td>Committee Membership</td>
<td>1152</td>
</tr>
<tr>
<td>Employee Complaints To</td>
<td>3711</td>
</tr>
<tr>
<td>General (Audits/Investigations)</td>
<td>9500</td>
</tr>
<tr>
<td>Investigations By</td>
<td>9950</td>
</tr>
<tr>
<td>Organization Chart/Responsibility</td>
<td>1103</td>
</tr>
<tr>
<td>Relationship with GAO</td>
<td>9920</td>
</tr>
<tr>
<td>Installation Institutional Capability Planning and Plans</td>
<td>7234</td>
</tr>
<tr>
<td>(Facilities Utilization Program)</td>
<td></td>
</tr>
<tr>
<td>Index NRS No.</td>
<td>Index NRS No.</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------</td>
</tr>
<tr>
<td>INSTALLATIONS</td>
<td>1107</td>
</tr>
<tr>
<td>Ames Research Center (ARC)</td>
<td>1107</td>
</tr>
<tr>
<td>Goddard Space Flight Center (GSFC)</td>
<td>1107</td>
</tr>
<tr>
<td>Johnson Space Center (JSC)</td>
<td>1107</td>
</tr>
<tr>
<td>Kennedy Space Center (KSC)</td>
<td>1107</td>
</tr>
<tr>
<td>Langley Research Center (LaRC)</td>
<td>1107</td>
</tr>
<tr>
<td>Lewis Research Center (LeRC)</td>
<td>1107</td>
</tr>
<tr>
<td>Marshall Space Flight Center (MSFC)</td>
<td>1107</td>
</tr>
<tr>
<td>National Space Technology Laboratories (NSTL)</td>
<td>1107</td>
</tr>
<tr>
<td>Classified Information/Safeguarding Responsibility</td>
<td>1620</td>
</tr>
<tr>
<td>Communications Responsibilities</td>
<td>2520</td>
</tr>
<tr>
<td>Security Instructions/Requirements</td>
<td>1620</td>
</tr>
<tr>
<td>... ALSO SEE &quot;Field Installations&quot; ...</td>
<td></td>
</tr>
<tr>
<td>INSURANCE AND ANNUITIES</td>
<td>3800</td>
</tr>
<tr>
<td>Group Life Insurance</td>
<td>3870</td>
</tr>
<tr>
<td>NASA Employees Benefit Association (NEBA)</td>
<td>3870</td>
</tr>
<tr>
<td>Health Insurance</td>
<td>3890</td>
</tr>
<tr>
<td>Injury Compensation</td>
<td>3810</td>
</tr>
<tr>
<td>Retirement</td>
<td>3831</td>
</tr>
<tr>
<td>Social Security/Retirement</td>
<td>3830</td>
</tr>
<tr>
<td>Unemployment Compensation</td>
<td>3850</td>
</tr>
<tr>
<td>INTERAGENCY AGREEMENTS:</td>
<td>1050</td>
</tr>
<tr>
<td>Amendments or Review of</td>
<td>1050</td>
</tr>
<tr>
<td>Basic Requirement For</td>
<td>1050</td>
</tr>
<tr>
<td>Contract Administration Related Field Services</td>
<td>7410</td>
</tr>
<tr>
<td>Definition:</td>
<td>1050</td>
</tr>
<tr>
<td>Format and Preparation</td>
<td>1050</td>
</tr>
<tr>
<td>Cancellation Paragraph</td>
<td>1050</td>
</tr>
<tr>
<td>Draft Copies</td>
<td>1050</td>
</tr>
<tr>
<td>Effective Date and Termination</td>
<td>1050</td>
</tr>
<tr>
<td>Final Version</td>
<td>1050</td>
</tr>
<tr>
<td>Original</td>
<td>1050</td>
</tr>
<tr>
<td>Reference List</td>
<td>1050</td>
</tr>
<tr>
<td>Signature Block</td>
<td>1050</td>
</tr>
<tr>
<td>Subject Title</td>
<td>1050</td>
</tr>
<tr>
<td>Listing</td>
<td>1050</td>
</tr>
<tr>
<td>Obtaining Authorization for</td>
<td>1050</td>
</tr>
<tr>
<td>Power and Authority, Negotiate/Execute/Amend/Terminate:</td>
<td>1050</td>
</tr>
<tr>
<td>Conditions and Limitations On Delegation of Authority</td>
<td>1050</td>
</tr>
<tr>
<td>Effects on Current Agreements Reporting on Records and Publications of Review of Space Tug/Inertial Upper Stage Management (Air Force)</td>
<td>8020</td>
</tr>
<tr>
<td>Termination of</td>
<td>1050</td>
</tr>
<tr>
<td>Intercenter Aircraft Operations Panel</td>
<td>1152</td>
</tr>
<tr>
<td>Intercenter Committee on ADP</td>
<td>1152</td>
</tr>
<tr>
<td>Interception of Conversations/Meetings Policy on</td>
<td>2530</td>
</tr>
<tr>
<td>Interconnecting Cables</td>
<td>5300</td>
</tr>
<tr>
<td>Intergovernmental Personnel Act of 1970</td>
<td>3334</td>
</tr>
<tr>
<td>Interim Upper Stage</td>
<td>8000</td>
</tr>
<tr>
<td>Internal Control Systems</td>
<td>1200</td>
</tr>
<tr>
<td>INTERNATIONAL:</td>
<td>1362</td>
</tr>
<tr>
<td>Aeronautical and Space Programs</td>
<td>1362</td>
</tr>
<tr>
<td>Affairs, Division of</td>
<td>1360</td>
</tr>
<tr>
<td>Intergovernmental Negotiations</td>
<td>1360</td>
</tr>
<tr>
<td>Appointment of Delegates to International Conferences</td>
<td>1360</td>
</tr>
<tr>
<td>Certificates of Vaccination</td>
<td>1820</td>
</tr>
<tr>
<td>Cooperative Projects</td>
<td>1362</td>
</tr>
<tr>
<td>DIRECTOR OF (AFFAIRS)</td>
<td>1103</td>
</tr>
<tr>
<td>Delegation of Authority to Act for Organization Chart</td>
<td>1103</td>
</tr>
<tr>
<td>Position Objective Responsibilities of Fellowships</td>
<td>1374</td>
</tr>
<tr>
<td>Incident Visitors/Activities</td>
<td>1370</td>
</tr>
<tr>
<td>Coordination</td>
<td>1365</td>
</tr>
<tr>
<td>Organizations</td>
<td>1103</td>
</tr>
<tr>
<td>Organization Chart (NASA)</td>
<td>1103</td>
</tr>
<tr>
<td>Resident Research Associateships</td>
<td>1376</td>
</tr>
<tr>
<td>Responsibilities</td>
<td>1103</td>
</tr>
<tr>
<td>Support of Overseas Operations</td>
<td>1367</td>
</tr>
<tr>
<td>System of Units (USMGAM)</td>
<td>8010</td>
</tr>
<tr>
<td>Training of Foreign Nationals</td>
<td>1378</td>
</tr>
<tr>
<td>Transactions</td>
<td>9300</td>
</tr>
<tr>
<td>Travel Abroad (NASA)</td>
<td>1373</td>
</tr>
<tr>
<td>Approval of</td>
<td>9710</td>
</tr>
<tr>
<td>Interview, Exit</td>
<td>3700</td>
</tr>
<tr>
<td>... ALSO SEE &quot;Personnel&quot; ...</td>
<td></td>
</tr>
<tr>
<td>INVENTIONS:</td>
<td>3450</td>
</tr>
<tr>
<td>Appeals</td>
<td>3450</td>
</tr>
<tr>
<td>Award Consideration</td>
<td>3450, 1170</td>
</tr>
<tr>
<td>Contributions (and), Scientific and Technical</td>
<td>5700</td>
</tr>
<tr>
<td>CONTRIBUTIONS (AND) BOARD:</td>
<td>1152</td>
</tr>
<tr>
<td>Advance Waiver Review Panel</td>
<td>1152</td>
</tr>
<tr>
<td>Definition of</td>
<td>5109</td>
</tr>
<tr>
<td>Membership</td>
<td>1152</td>
</tr>
<tr>
<td>Patent Waiver Petitions, Findings, and Recommendations</td>
<td>5500</td>
</tr>
<tr>
<td>Responsibility of</td>
<td>1170</td>
</tr>
<tr>
<td>Services Provided by</td>
<td>1152</td>
</tr>
<tr>
<td>Employees</td>
<td>3450, 1170</td>
</tr>
<tr>
<td>Licenses/Assignments, Acceptance of</td>
<td>2000</td>
</tr>
<tr>
<td>PATENTS:</td>
<td>5127</td>
</tr>
<tr>
<td>Foreign, Program for Licensing Regulations, NASA Inventions</td>
<td>5127</td>
</tr>
<tr>
<td>Policy, Implementation of</td>
<td>3450</td>
</tr>
<tr>
<td>Waiver Regulations</td>
<td>5127</td>
</tr>
<tr>
<td>Petitions</td>
<td>3450</td>
</tr>
<tr>
<td>Responsibility for</td>
<td>3450</td>
</tr>
<tr>
<td>Statement of Employment/Financial Interests</td>
<td>1900</td>
</tr>
<tr>
<td>INVENTORY MANAGEMENT:</td>
<td>2410</td>
</tr>
<tr>
<td>Information Processing Resources</td>
<td>2410</td>
</tr>
<tr>
<td>ADP Equipment Inventory Control Reporting Requirements Resource Sharing Software Management Material Inventory Management Handbook</td>
<td>4100</td>
</tr>
<tr>
<td>Property</td>
<td>4100</td>
</tr>
<tr>
<td>... ALSO SEE &quot;Property&quot; ...</td>
<td></td>
</tr>
</tbody>
</table>
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: ........................ 1900
Employees
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 Responsibilities
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

Department of ........................ 1330
Drug Enforcement Administration ... 1815
Regional Offices .................... 1815
Federal Register Documentation ..... 1412

***** K *****

KENNEDY SPACE CENTER (KSC)
DIRECTOR: Authority to Act for Objectives
Responsibilities
Organization Chart .............. 1107
Shuttle Landing Facilities ....... 6000
Space Shuttle Program Responsibilities
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-Members 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: Authority to Act for Objectives
Responsibilities
Organization Chart
... ALSO SEE "Field Installations"

LAUNCH

Budget, Procurement Price-Out Data for Launch Vehicles & Spacecraft ... 7400
Insignias on Reimbursable Launch Vehicles ........................ 8610
Operations (Contracts & Agreements). 8610
... ALSO SEE "Operations"
Reimbursement for, Non-U.S. Govt.
Users: Application of
Items Reimbursed
Policy On
Responsibility for
Users, Definition of
Space Systems, Termination .... 8640
Tracking ................. 8410
Unmanned Space Flight Projects .... 8430
LAWS AND LEGAL MATTERS
Budget Administration .................... 7400
Case Law .................................. 2020
Civil Rights ................................ 2090
Claims (General) ......................... 2080
Conflict of Interest Enforcement ....... 1900
Contract Claims ......................... 2084
Court Actions: ........................... 2010
Federal Register/CFR Documentation . 1412
Interpretations ............................ 2070
Laws and Legal Matters ................. 2000
Legal Assistance .......................... 2030
Taxes, Customs, and Duties ............ 2040
Tort Claims: ............................... 2082
NASA, Against NASA Employee, Against U.S. Government, Against
Leave ..................................... 3600
... ALSO SEE "Personnel"...
Lecturing (Employee) ..................... 1900
Speeches .................................. 1385

LEDGERS
Allotment .................................. 9230
Cost Report ............................... 9240
General Accounts ....................... 9220
Property Accounting .................... 9250
Subsidiary ................................ 9280
... ALSO SEE "Accounting"...

LEGISLATIVE
Accident/Mission Failure Investigation ................................ 8621
Affairs (Branch) ......................... 1320
DIRECTOR: ................................ 1103
Authority to Act for Functions Organization Chart Responsibilities
MATERIAL, Definition of .................. 1320
Processing of ............................ 7010
Program .................................. 1320
Requests for ............................. 1320
Responsibilities ......................... 1320
Responsibilities ........................ 1103
Timely Implementation of (Directives) ................................ 1410
Levy and Garnishment .................... 3500
Lewis Research Center (LeRC)
DIRECTOR: ................................ 1107
Authority to Act for Responsibilities Organization Chart
... ALSO SEE "Field Installations"...
Licensing, Patent Regulations .......... 5127
... ALSO SEE "Patents"...
Life Insurance, Group ................... 3870
... ALSO SEE "Personnel"...

LIFE SCIENCES
Advisory Committee ....................... 1156
Responsibility for ....................... 1102
... ALSO SEE "Space Science"...

LINES OF SUCCESSION
Administrator, Delegation of Authority to Act For .................. 1162
Approval and Documentation of ........ 1160
Policy Requirements
Special Lines of

LOGISTICS
Logistics and Security Division, Responsibilities ................. 1102
Federal Register Office, NASA Representative .................... 1412
Formulation of .......................... 7500
Organization Chart ...................... 1102
Logotype, NASA Official .................. 1020
Losses in Shipment Act, Government .... 6220
Lotteries, Employee ....................... 1900

LUNAR
Contamination ............................ 8020
Mapping ................................. 7100
Planetary Nomenclature .................. 8020
SAMPLES, Control of .................... 7100
Policy on Responsibility for Selection, Research and Development of Lunar Samples ................. 1387

MACHINE-READABLE RECORDS ................ 2400
Such As:
Backup Media
Guides
Information Retrieval Instructions
Reference
Intermediate Data
Master Files
Print Files
Publications
Reports
Source Data
Specifications
File
Output
System
Temporary Media
Test Data
Test Documentation
Valid Transaction
Work Files

Machines, Office (Copying) ............ 1490
MAIL

Administration ........................................... 1530
Control ...................................................... 1530
Internal Mail and Messenger ............................ 1551
Loss Report .................................................. 1530

NASA Management Program

Definitions: .................................................. 1450
Bulk Rate Mail
Official Mail
Objective Privileges
Contractor
Federal Government Responsibilities
Restrictions

Penalty Mail Routing ...................................... 1450
Receipt and Routing ....................................... 1530
Registered Mail ............................................ 1450
Stamps ......................................................... 1450
Statistical Reports ......................................... 1450

Mailing Lists (Internal, NASA) .......................... 1551

Mailings, Official .......................................... 1450

MAINTAINABILITY ASSURANCE .......................... 5300

Basic Policy and Responsibilities
Space Shuttle Program

MAINTENANCE AND OPERATION .......................... 6600

Marine Equipment .......................................... 6600
Materials Handling Equipment ........................... 6430
NASA Facilities Programs ................................ 8800

Major Facilities Utilization Report ..................... 7234

MAJOR FLIGHT AND DEVELOPMENT ....................... 8040

Configuration Control .................................... 8040
Flight Experiments and Tasks ............................ 8030
General Information ..................................... 8010
Inertial Upper Stage (IUS) Project ..................... 8020
Major Flight and Development ........................... 8005
Program Control ............................................ 8020
Standards and Specifications ............................ 8070
Systems Design ............................................. 8060
Systems Integration and Checkout ........................ 8050
Tests and Testing .......................................... 8080

MAJOR SYSTEM ACQUISITIONS ............................ 7100

Background on
Basic Policies on
Considerations/Strategy for
Definitions
Exceptions to Process for
Procedure/Process for
Reaffirmation to Need Statement
Preparation
Responsibilities for

MANAGEMENT

Affairs, Timely Implementation of .......................... 1410
Alcohol/Drug Abuse ....................................... 3792
Automatic Data Processing Equipment .................... 2410
Basic Operating & Management Concepts .................. 1200
Budget ......................................................... 1260

CONFERENCES/RETREATS, NASA

Sponsored: ...................................................... 1200

Background of
Definitions:  
Management Conference
Retreat
Policy for
Private Facilities, Use of
Approval for
Reporting On

Correspondence ............................................. 1450
Employee Disciplinary Action ................................ 3752
Employee Relations With .................................. 3711
Employment Ceiling/Funding ............................. 7240
Federal Register ............................................. 1412

Financial, Relationship .................................... 7400
Financial, Responsibilities .................................. 1103

Functional ...................................................... 1240

Improvement .................................................... 170

Information & Control System (MICS) .................... 2340
Information Processing ...................................... 2410
Information Systems ......................................... 2300

Institutional ................................................... 1250
Internal Control Systems ................................... 1200
 Investigations/Responsibilities ........................... 9950

Manpower ........................................................ 3000
Meetings (NASA Sponsored) ............................... 1200
Micrographics, Management of ............................ 2314

OFFICE OF:

Associate Administrator
Authority to Act for: ...................................... 1102

During Normal Conditions
          In the Event of an Attack

Authority to Approve Employment

Ceilings ....................................................... 3510

Lines of Succession ....................................... 1102

Responsibilities ............................................ 1102
Federal Register ............................................ 1412

Organization Chart ........................................ 1102

Position Management Program ............................ 3510

Privacy Act of 1974 ........................................ 1382

Organizational Responsibilities/
Structure/Changes ........................................ 1120

Announcements/Other Actions of
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
MANAGEMENT CONTINUED:

SENIOR EXECUTIVE SERVICE (SES) ..... 3100
Definitions:
Career Reserved Position
General Position
Senior Executive
Senior Executive Service Position

NASA EXECUTIVE RESOURCES BOARD ... 3100
NASA Performance Review Board
NASA SES Executive Position Managers
Responsibilities
Senior Executive Committee
Software/Flight Projects .......... 2410
SUPPORT OFFICE - Consulting Services Contracts/Responsibility 5117
Director .......................... 1103
Position Objectives
Responsibilities
Organization Chart
Visual Aids ........................ 1430
Work ................................ 1216
Work Breakdown Structures ...... 5610
Mapping ......................... 7100
... ALSO SEE "Cartography" ...

Marine Equipment, Maintenance of ..... 6600

Markings On Space Transportation Vehicles, Component Systems, and Payloads .......... 8610

Marshall Space Flight Center (MSFC) Communication Responsibilities ..... 2520
Director .......................... 1107
Authority to Act for Objectives
Responsibilities
Organization Chart
Space Shuttle Program
Responsibility .................... 8020
Standard Parts Program
Responsibilities ................. 5320
... ALSO SEE "Field Installations" ...

Master List and Index to NASA Directives .......... 1410

MATERIALS
Inventory Management .......... 4100
Procurement Requests .......... 5100
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

MEDICINE
Astronauts/Dependents/Health Care Program .......... 8900
Hearing Conservation .......... 1820
MSF Responsibilities/Relationships ..... 8900
Occupational .................... 1800
Space Transportation System
Responsibilities .......... 8900
... ALSO SEE "Health" ...

MEETINGS
Management, NASA Sponsored .......... 1200
Background of Definitions:
Management-Conferences Retreat
Policy for Private Facilities, Use of Approval for Reporting on
Recording of .................... 2530
Conditions for Policy on
Scientific and Technical, Visual For
Travel to ......................... 9710

Merit Promotion Case Files and
Merit Promotion Plan (GS-15 & BELOW). 3335

Messages, Recording Precedences for 2530

Messenger Service .......... 1551

Metals, Precious - Recovery of .......... 4300

Metric System .......... 8010

Microbiological Examination of Space Hardware .......... 5340

Microcircuits - Qualified Products
Lists Requirements for .......... 5300

Micrographics Management .......... 2314

MICROREPRODUCTION
Engineering Data, Specifications and Standards for .......... 2280
Management .......... 2314
Policy and Guidelines .......... 1440

MICS (Management Information and Control System) .......... 2340

MILITARY
Detailed Parent Service Report .......... 3280
Leave .......... 3630
Personnel .......... 3280
Service Obligations .......... 3303
Standard Requisitioning and Issue Procedures (MILSTRIP) .......... 4050
... ALSO SEE "Personnel" ...

MESSAGES, RECORDING PRECEDENCES (FOR)
MINORITY GROUP STATISTICS SYSTEM .......... 3713

History
Procedures For Responsibilities for Safeguards

MISSIONS
Director of ... SEE "Space Flight"
Failure Investigation .......................... 8621
Objectives, Rating of .......................... 8610
Software Management Requirements ............ 8630
Space Systems, Termination .................... 8640
... ALSO SEE "Shuttle" ...

Mississippi Test Facility ....................... 1107
... ALSO SEE "National Space Technology Laboratories" ...

MODELS
Cartographic .................................... 7100
Design and Construction ....................... 8800

Monitoring of Conversations/Meetings
Policy on ...................................... 2530

Monuments, Proposed ........................... 8823

MOTION PICTURE,
TELEVISION AND RADIO PRODUCTIONS ... 1394
Definitions
Class A/B Film/Television and Radio Productions
Minimum Production Techniques
Production
Policy
Preparation
... ALSO SEE "Audiovisual" ...

MOTOR VEHICLE (Automobile/Car/Truck)
Accidents ....................................... 6750
Correspondence .................................. 6700
Cost and Expense Data .......................... 6740
Leased and Rented .............................. 6770
Maintenance ..................................... 6740
Management ...................................... 6700
Operation ........................................ 6700
Policy On ........................................ 6720
Rented Vehicles, Claims for Collision/Upset Damage .............................. 9720

MSFC (Marshall Space Flight Center) ........ 1107

MTF (Mississippi Tech Facility) .............. 1107
... ALSO SEE "National Space Technology Laboratories" ...

------------------------------

NATIONAL
Communications System (NCS) .................. 2520
Environmental Policy Act (NEPA) .............. 8030
Space Science Data Center (NSSDC) .......... 8030
Functions
Organization
Responsibilities
Space Technology Laboratories (NSTL) 1107

National Space Technology Laboratories (NSTL) ........ 1107
Director
Organization
Responsibilities
... ALSO SEE "Field Installations" ...

NATO (North Atlantic Treaty Organization)
Information Loss/Compromise .................. 1620

NCS (National Communications System) ...... 2520

NEBA (NASA Employees Benefit Association) . 3870

NEMS (NASA Equipment Management System) . 4200
... ALSO SEE "Equipment" ...

NARCOTICS AND DRUG CONTROL ............... 1815
... ALSO SEE "Health" ...

---

**** N ****
<table>
<thead>
<tr>
<th>Index NRS No.</th>
<th>Index NRS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEPA (National Environmental Policy Act)</td>
<td>8800</td>
</tr>
<tr>
<td>NEWS (AND INFORMATION)</td>
<td></td>
</tr>
<tr>
<td>Accident Investigation Reports</td>
<td>1382</td>
</tr>
<tr>
<td>Agency Reports</td>
<td></td>
</tr>
<tr>
<td>Casualty Reports</td>
<td></td>
</tr>
<tr>
<td>Conferences</td>
<td>1389</td>
</tr>
<tr>
<td>Coordination of Policy</td>
<td>1380</td>
</tr>
<tr>
<td>Officials, Public Appearance By</td>
<td>1384</td>
</tr>
<tr>
<td>Presentations, Scientific and Technical</td>
<td>2220</td>
</tr>
<tr>
<td>Release</td>
<td>1382</td>
</tr>
<tr>
<td>Responsibility for</td>
<td>1380</td>
</tr>
<tr>
<td>Speeches, Scientific and Technical</td>
<td>2220</td>
</tr>
<tr>
<td>Speeches, General</td>
<td>1385</td>
</tr>
<tr>
<td>Noise Research, Hearing Conservation</td>
<td>1820</td>
</tr>
<tr>
<td>Nondisclosure Agreements (Employees)</td>
<td>1610</td>
</tr>
<tr>
<td>NONDISCRIMINATION</td>
<td></td>
</tr>
<tr>
<td>Age</td>
<td>2090</td>
</tr>
<tr>
<td>Federal Women's Program</td>
<td>3713</td>
</tr>
<tr>
<td>Handicapped Individuals</td>
<td>2090</td>
</tr>
<tr>
<td>NASA Federally-Assisted Programs</td>
<td>2090</td>
</tr>
<tr>
<td>Public Events Participation</td>
<td>1380</td>
</tr>
<tr>
<td>Nonprofit Institutions</td>
<td>1050</td>
</tr>
<tr>
<td>Nonreimbursement of Costs, Space Act Agreements, Delegation of Authority</td>
<td>1050</td>
</tr>
<tr>
<td>NONSCIENTIFIC PAYLOADS</td>
<td>8610</td>
</tr>
<tr>
<td>Definitions</td>
<td></td>
</tr>
<tr>
<td>Policy</td>
<td></td>
</tr>
<tr>
<td>Space Transportation System</td>
<td></td>
</tr>
<tr>
<td>Nonsensitive Position, Investigative Requirements for</td>
<td>1610</td>
</tr>
<tr>
<td>North Atlantic Treaty Organization, Information Loss/Compromise</td>
<td>1620</td>
</tr>
<tr>
<td>Notaries Public</td>
<td>9600</td>
</tr>
<tr>
<td>Notices, NASA (Federal Register)</td>
<td>1412</td>
</tr>
<tr>
<td>NOTIFICATION AND ALERT SYSTEM</td>
<td></td>
</tr>
<tr>
<td>Normal Operations</td>
<td>1590</td>
</tr>
<tr>
<td>Officials, Public Appearances By</td>
<td>1384</td>
</tr>
<tr>
<td>Special Alert</td>
<td>1590</td>
</tr>
<tr>
<td>Notification of Personnel Action</td>
<td>3200</td>
</tr>
<tr>
<td>... ALSO SEE &quot;Personnel&quot; ...</td>
<td></td>
</tr>
<tr>
<td>NSSDC (National Space Science Data Center)</td>
<td>8030</td>
</tr>
<tr>
<td>NSTL (National Space Technologies Laboratories) Roles/Responsibility</td>
<td>1107</td>
</tr>
<tr>
<td>... ALSO SEE &quot;Field Installations&quot; ...</td>
<td></td>
</tr>
</tbody>
</table>

OAST (Office of Aeronautics and Space Technology) Role/Responsibility | 1102
... ALSO SEE "Office of" ... |

Oaths of Office | 3311

Ocean Dynamics Advisory Subcommittee | 1156

OCCUPATIONAL MEDICINE |  |
| Agency Program | 1800 |
| Hearing Conservation | 1820 |
| Narcotics and Drugs, Handling of | 1815 |
| Safety and Health Handbook | 8720 |
| Safety and Health Programs | 8710 |
| ... ALSO SEE "Health" ... |  |

Occupational Safety and Health Program | 8720

OD (Operations Directive) | 8610

OEP (Office of Emergency Planning) | 1040
... ALSO SEE "Emergency" ...

OFFICE |  |
| Equipment | 1571 |
| Furniture/Furnishings (Use & Replacement Standards) | 4220 |
| HEADQUARTERS (Office Role & Responsibilities) | 1102 |
| Machines | 1490 |
| Personnel Management, of (OPM) | 3510 |
| Supplies | 1570 |

OFFICE OF: AERONAUTICS AND SPACE TECHNOLOGY |  |
| Associate Administrator: | 1102 |
| Authority to Act for Lines of Succession Committee | 1152 |
| ROLES & RESPONSIBILITIES: |  |
| Accident/Mission Failure | 8621 |
| GIDEP Utilization | 5310 |
| Organization | 1102 |
| Program Planning | 1102 |
| Program Formulation and Review | 7040 |
| Scientific Information | 2200 |
| Technical Publications | 2220 |

COMMERCIAL PROGRAMS |  |
| Assistant Administrator: | 1103 |
| Authority to Act for Role & Responsibilities Organization Chart |  |

HEADQUARTERS OFFICES ... SEE SPECIFIC OFFICE ...
OFFICE OF CONTINUED:

PERSONNEL MANAGEMENT (OPM)
Delegation of Authority .......... 3510 Position Classification
Responsibilities
Experts/Consultants Employment ... 3304 Personnel Transfer/Travel .... 9710
Conditions of Limitation of

PROCUREMENT
Director, Authority to Act for ... 1103 Power/Authority ............ 5101
Responsibilities:
CAS Administration/Overhead Monitoring Program .... 5130
Description of ............... 1103
Federal Register Documentation 1412
Policy Information .......... 5100
Priorities ................... 5100
University Projects .......... 8310
Federal Register Publication
Officer ........................ 1412
Organization Chart .......... 1103 Pricing Division ............. 5131

SMALL AND DISADVANTAGED BUSINESS
UTILIZATION
Policy ........................ 5119
Roles and Responsibilities .... 1103

SPACE FLIGHT (OSF)
Associate Administrator for: .... 1102 Authority to Act for
Line of Succession for Position/Objective Responsibilities:
General ..................... 1102 GIDEP Utilization .... 5310
NASA & NASA-Related Payloads . 8610 STS Security ........ 8610
Committee Memberships .......... 1152 GSFC Responsibilities .... 1107
JPL Responsibilities ........... 1102 Organization Chart ........ 1102
Committees and Boards .......... 1152

SPACE SCIENCE AND APPLICATIONS (OSSA)
Associate Administrator for Authority to Act for .......... 1102
Responsibilities:
Mission Failure Investigations and
Reports ........................ 8621
Investigations/Announcements of
Opportunity Process ............ 7100
GSFC Responsibilities .......... 1107
Committees and Boards .......... 1152
Reliability and Quality .......... 5310
Roles & Responsibilities .... 1102

ORGANIZATION
Headquarters Offices:
Aeronautics and Space Technology
Role & Responsibility .......... 1102
Commercial Programs ........... 1103
Commissioner
Exam Opportunity Programs
External Relations
General Counsel
Inspector General
Legislative Affairs
Index NRS No. No.

ORGANIZATION CONTINUED:

Management .................................. 1102
Procurement .................................. 1103
Space Flight .................................. 1102
Space Science and Applications          
Space Station
Space Tracking and Data Systems
Lines of Succession:
  Administrator .......................... 1162
  Policy .................................. 1160
Responsibilities (Agency-wide),
  Structure and Changes ............ 1120
  Statement of Organization and
  General Information .............. 1120
Terminology/Definitions .............. 1132
Orientation, Employee ................. 1900
  ... ALSO SEE "Personnel" ...
OSF (Office of Space Flight)
  Responsibilities ..................... 1102
  ... ALSO SEE "Office Of" ...
OSSA (Office of Space Science and
  Applications) Responsibilities ..... 1102
  ... ALSO SEE "Office Of" ...
OSTDS (Office of Space Tracking and
  Data Systems) Responsibilities ..... 1102
  ... ALSO SEE "Office Of" ...
Outplacement Program .................. 3250
Outside Awards .......................... 3451
Overhead Monitoring Program .......... 5131
Overtime Policy ......................... 3550

**** p ****

PAD (Project Approval Document) ...... 7120
Page and Reprint Charges, Technical
  Information Documents .............. 9280
Panels ................................. 1150
  ... ALSO SEE "Committees" ...

PARTS AND MATERIALS

Basic Policy ................................ 5320
  Parts Steering Committee .......... 1152
  Problem Reports (Alerts) ....... 5310
  Standard Parts ..................... 5320
  Test Data ........................... 5310

Parts Steering Committee ............ 1152

PATENTS

Assistant General Counsel
  Responsibilities ..................... 2000
Foreign Program: ...................... 5127
  Licensing Regulations
  Government License
  Patent Rights Enforcement
  Policy/Procedures
  Types, Terms and Conditions

Index NRS No. No.

PATENTS CONTINUED:

  Licensing, NASA Inventions: ........ 5127
  Appeals/Litigation
  Communications Address
  Considerations on
  Definitions
  Administrator
  Government
  Invention/Practice of
  Nonexclusive/Exclusive
  Application for
  Practical Application for
  Processing of Applications for
  Publication of
  Royalties/Fees
  Special Invention
  Types of

Management Directives ................ 1410
  Recommendation/Review For
  Inventions & Contributions Board ... 1170
  Redelegation of Authority For .... 2000
  Waiver ........................... 5127

Pay Administration .................... 3550
  ... ALSO SEE "Personnel" ...

PAYLOAD SPECIALIST (Operations) ..... 8651
  Definitions
  Responsibilities
  Selection
  ... ALSO SEE "Astronauts" ...

PAYLOADS
  Classification Of .................... 8010
  Launch Preparation ................ 1107
  Nonscientific ....................... 8610
  Small Self-Contained ............. 8610

Performance Data, Contractor
  Reporting of ........................ 9501

Performance Evaluation Board,
  Caltech/JPL .......................... 1152

PERSONAL

INJURY
  Reporting and Analysis ............ 1700
  Tort Claims ......................... 2080
  Property Damage .................... 2080
  Property Disposal Manual ......... 4300

PERSONNEL

Absence and Leave .................... 3630
  Action Form, Request For .......... 3280
  ADVERSE ACTIONS (General) ....... 3750
  Adverse Actions ................... 3752
  Appeals Systems Manual .......... 3771
  Responsibility to Act ........... 3752
  Alcohol and Drug Abuse Program .. 3792
  Allowances (General) ............. 3592
  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
### Personnel Continued:

<table>
<thead>
<tr>
<th>Index NRS</th>
<th>No. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Personnel Continued:</strong></td>
<td></td>
</tr>
<tr>
<td>Details :</td>
<td>3307</td>
</tr>
<tr>
<td>Military Personnel</td>
<td>3250</td>
</tr>
<tr>
<td>Development of Statistics</td>
<td>2992</td>
</tr>
<tr>
<td>Direction and Control of the Personnel Program</td>
<td>3270</td>
</tr>
<tr>
<td>DIRECTOR OF:</td>
<td>1102</td>
</tr>
<tr>
<td>Functions Responsibilities</td>
<td></td>
</tr>
<tr>
<td>Discipline</td>
<td>3751</td>
</tr>
<tr>
<td><strong>Employee:</strong></td>
<td></td>
</tr>
<tr>
<td>Conduct, Standards Of</td>
<td>1900</td>
</tr>
<tr>
<td>Development (Training)</td>
<td>3410</td>
</tr>
<tr>
<td>Grievances, Responsibility to Act On</td>
<td>3771</td>
</tr>
<tr>
<td>Investigations</td>
<td>3736</td>
</tr>
<tr>
<td>Management Relations</td>
<td>3711</td>
</tr>
<tr>
<td>Orientation</td>
<td>1900</td>
</tr>
<tr>
<td>Organizations and Activities</td>
<td>3712</td>
</tr>
<tr>
<td>Performance and Utilization</td>
<td>3400</td>
</tr>
<tr>
<td>Recognition and Incentives</td>
<td>3450</td>
</tr>
<tr>
<td>Responsibilities and Conduct</td>
<td>3735</td>
</tr>
<tr>
<td>Services To (General)</td>
<td>3790</td>
</tr>
<tr>
<td>Employment (General)</td>
<td>3300</td>
</tr>
<tr>
<td><strong>Equal Employment Opportunity:</strong></td>
<td></td>
</tr>
<tr>
<td>Policy</td>
<td>1103</td>
</tr>
<tr>
<td>Responsibility For Minority Group Statistics System</td>
<td>3713</td>
</tr>
<tr>
<td>Experts and Consultant Employment</td>
<td>3304</td>
</tr>
<tr>
<td>Furloughs</td>
<td>3715</td>
</tr>
<tr>
<td>Grievances Responsibility to Act On</td>
<td>3771</td>
</tr>
<tr>
<td>Health, Occupational</td>
<td>1800</td>
</tr>
<tr>
<td>Incentive Awards</td>
<td>3451</td>
</tr>
<tr>
<td>Inspections, Surveys and Audits</td>
<td>3273</td>
</tr>
<tr>
<td><strong>Insurance:</strong></td>
<td></td>
</tr>
<tr>
<td>Annuities</td>
<td>3800</td>
</tr>
<tr>
<td>Injury Compensation</td>
<td>3810</td>
</tr>
<tr>
<td>Insurance (General)</td>
<td>3800</td>
</tr>
<tr>
<td>Group Health</td>
<td>3890</td>
</tr>
<tr>
<td>Group Life</td>
<td>3870</td>
</tr>
<tr>
<td>Old Age and Survivors</td>
<td>3832</td>
</tr>
<tr>
<td>Retirement</td>
<td>3831</td>
</tr>
<tr>
<td>Job Retention</td>
<td>3350</td>
</tr>
<tr>
<td>Leave</td>
<td>3630</td>
</tr>
<tr>
<td>Management, Personnel</td>
<td>3250</td>
</tr>
<tr>
<td><strong>Military:</strong></td>
<td>3280</td>
</tr>
<tr>
<td>Assignments to NASA</td>
<td></td>
</tr>
<tr>
<td>Requests for Extensions of Responsibility for Awards/Recommendations Detailing to NASA Evaluation Reports</td>
<td></td>
</tr>
<tr>
<td>Mobility (Developing Policy Procedures and Standards)</td>
<td>3271</td>
</tr>
<tr>
<td>Mobility Agreements Under Title IV</td>
<td>3334</td>
</tr>
<tr>
<td>Mobility, Procurement Career Development Program Guide</td>
<td>3410</td>
</tr>
<tr>
<td><strong>Nondiscrimination:</strong></td>
<td>3713</td>
</tr>
<tr>
<td>Equal Opportunity Programs Responsibility for Minority Group Statistics System Responsibilities for Nondisciplinary Separations, Demotions, and Furloughs</td>
<td>3715</td>
</tr>
<tr>
<td>Oaths of Office</td>
<td>3311</td>
</tr>
<tr>
<td>Old Age and Survivors Insurance</td>
<td>3832</td>
</tr>
<tr>
<td>Orientation, Employee</td>
<td>3711</td>
</tr>
<tr>
<td>Overseas Allowances and Post Differentials</td>
<td>3592</td>
</tr>
<tr>
<td>Overseas Employment</td>
<td>3301</td>
</tr>
<tr>
<td>Pay Administration</td>
<td>3550</td>
</tr>
<tr>
<td><strong>Personnel Continued:</strong></td>
<td></td>
</tr>
<tr>
<td>Pay Rates and Systems</td>
<td>3530</td>
</tr>
<tr>
<td>Rate Rule, Application Of</td>
<td>3530</td>
</tr>
<tr>
<td>Performance Evaluation (Appraisals)</td>
<td>3430</td>
</tr>
<tr>
<td>Personnel Management</td>
<td>3250</td>
</tr>
<tr>
<td>Personnel Management Information System (PMIS)</td>
<td>3291</td>
</tr>
<tr>
<td>Personnel Programs Division, Responsibilities</td>
<td>1102</td>
</tr>
<tr>
<td>Personnel Records and Processing Personnel Reports</td>
<td>3290</td>
</tr>
<tr>
<td>Development of Statistics</td>
<td>3292</td>
</tr>
<tr>
<td>Records and Files</td>
<td>3293</td>
</tr>
<tr>
<td>Release of Personnel Information</td>
<td>3294</td>
</tr>
<tr>
<td>Personnel Forms and Documents</td>
<td>3295</td>
</tr>
<tr>
<td>Processing Personnel Actions</td>
<td>3296</td>
</tr>
<tr>
<td>Personnel Relations and Services</td>
<td>3700</td>
</tr>
<tr>
<td>Personnel Transfer/Travel</td>
<td>9710</td>
</tr>
<tr>
<td>Placement (Employment - General)</td>
<td>3300</td>
</tr>
<tr>
<td>Political Activities of Federal Employees</td>
<td>3733</td>
</tr>
<tr>
<td>Position Classification, Pay, and Allowances</td>
<td>3500</td>
</tr>
<tr>
<td>Position Classification and Job Evaluation</td>
<td>3510</td>
</tr>
<tr>
<td>Position Control</td>
<td>3312</td>
</tr>
<tr>
<td>Position Management Program</td>
<td>3510</td>
</tr>
<tr>
<td>Power of Appointment and Removal</td>
<td>3311</td>
</tr>
<tr>
<td>Premium Pay</td>
<td>3550</td>
</tr>
<tr>
<td>Promotion and Internal Placement</td>
<td>3335</td>
</tr>
<tr>
<td>Recruitment, Selection, and Placement</td>
<td>3330</td>
</tr>
<tr>
<td><strong>Responsibilities:</strong></td>
<td></td>
</tr>
<tr>
<td>Employee</td>
<td>3735</td>
</tr>
<tr>
<td>Office of Personnel Management</td>
<td>3510</td>
</tr>
<tr>
<td>Pay/Position Classification</td>
<td>3510</td>
</tr>
<tr>
<td>Retirement</td>
<td>3831</td>
</tr>
<tr>
<td>Roles and Responsibilities</td>
<td>1102</td>
</tr>
<tr>
<td>Savings Bonds, U.S.</td>
<td>3960</td>
</tr>
<tr>
<td>Senior Executive Service (SES)</td>
<td>3100</td>
</tr>
<tr>
<td>Services to Employees</td>
<td>3790</td>
</tr>
<tr>
<td>Social Security</td>
<td>3830</td>
</tr>
<tr>
<td>Space Flight Participants</td>
<td>3970</td>
</tr>
<tr>
<td>Subsistence, Quarters, and Laundry</td>
<td>3535</td>
</tr>
<tr>
<td>Suggestion System, Employee</td>
<td>3452</td>
</tr>
<tr>
<td>Suitability and Conduct</td>
<td>3730</td>
</tr>
<tr>
<td>Temporary and Indefinite Employment</td>
<td>3316</td>
</tr>
<tr>
<td>Time and Attendance</td>
<td>3600</td>
</tr>
<tr>
<td>Training (Employee Development)</td>
<td>3410</td>
</tr>
<tr>
<td><strong>Transfers:</strong></td>
<td></td>
</tr>
<tr>
<td>NASA</td>
<td>3340</td>
</tr>
<tr>
<td>OPM (Office of Personnel Management)</td>
<td>3510</td>
</tr>
<tr>
<td>Personnel Transfer/Travel</td>
<td>9710</td>
</tr>
<tr>
<td>Conditions of Limitations of Travel, Employment Connected</td>
<td>3571</td>
</tr>
<tr>
<td>Uniforms</td>
<td>3594</td>
</tr>
<tr>
<td>Veteran's Preference</td>
<td>3211</td>
</tr>
<tr>
<td>Petitions for Patent Waiver</td>
<td>5500</td>
</tr>
<tr>
<td>Philatelic Activities</td>
<td>1380</td>
</tr>
<tr>
<td>Physical Security Handbook</td>
<td>1620</td>
</tr>
<tr>
<td>PID (Program Introduction Document)</td>
<td>8610</td>
</tr>
</tbody>
</table>
Index NRS No.

Placement, Personnel .................. 3300

PLANEYR
Cartography .......................... 7100
Contamination Control .................. 8020
Programs, Responsibility for .......... 1102

Planning and Program Integration .... 1152

PMIS (Personnel Management Information System) .................. 3291

Policies, Implementation of .......... 1410
Policy Analysis ........................ 1152

POLLUTION
Air/Water, Prevention, Control and Abatement .............. 8800
Federal Water Pollution Control Administration (FWPCA), Regional Offices .................. 7400
... ALSO SEE "Environmental" ...

POP (Program Operating Plan) ........ 7400
[Budget Administration]

Position Classification, Pay, and Allowances Handbook ............. 3500
Pay Administration:
Classification Act System, Responsibility to Adjust .......... 3531
Step & Quality Increases .......................... 3531
Overtime Policy ............................. 3550
Premium Pay ................................ 3550
Rate Rule, Application of .............. 3530
Responsibilities ......................... 3510
Uniforms .................................. 3594
... ALSO SEE "Personnel" ...

POSITION MANAGEMENT PROGRAM: ............. 3510
Definition
Policy
Responsibilities

PRD (Program Requirements Document) .......... 8610

Premium Pay .............................. 3550

PRESENTATIONS
Scientific and Technical ................ 2200
Delegation of Authority Limitations On Reporting On Graphics Services ......... 1520
Visual and Graphic, Guidelines for .......... 1430
Visual Aids Service ....................... 1521

Presents (Foreign) Acceptance of .......... 1030
Pressure Vessels/Pressurized Systems .......... 1710
Pricing Data, Waivers on .............. 5101
Printed Reports (Submission) ............ 4100
... ALSO SEE "Reports" ...

PRINTED WIRING BOARDS: ................. 5300
Conformal Coating Requirements for Staking

PRINTING: .................................. 1490
Color
Contract/Grant Documentation
Copyrighted Material
Covers, Authors' Name on Definitions:
Binding
Column-one Equipment
Duplicating
Duplicating Center
Printing
Commercially Procurable
Federal Printing Plant
Production Unit
Equipment Identification of Publications Illustrations
Imprint
Joint Committee on MANAGEMENT PROGRAM:
Policy
Regulations/Standards for Responsibility for Nonpublic Business
Page and Reprint Charge ............. 9280
Policy ................................ 1490
Procedures for Regulations
Reproduction, Unlawful Responsibility for Seal and Insignia, NASA Official
Spines, Titles On Standards/Specifications

PRIVACY ACT OF 1974
Agency Records, Public Access .......... 1382
Information Processing, Privacy and Security of Data ........... 2410
Regulations ................................ 1382
Responsibility for ........................ 1382
Safeguarding Unclassified Records
Systems .................................... 1620
Statements of Employment/Financial Interests .................. 1900

PROCUREMENT (Contracts)
Assistant Administrator for, Responsibilities ............. 1103
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
PROCUREMENT CONTINUED:

Evaluation Procedures .................................. 1240
Federal Acquisition Regulation Supplement .......................... 5101
Information Processing Resources .................................. 2410
ADOPE Acquisition
Software Acquisition
Intern Program ............................................. 3410
Legal Review: Policy Requirements Monitoring .......................... 1240
Priorities Authority .......................................... 5101
Recoupment Policy ............................................ 5127
Regulations ................................................... 5100
Requests ....................................................... 5101
RESPONSIBILITIES:
DIRECTOR (of Procurement) Authority to Act for Federal Register Publication Officer .................. 1412
Organization Chart ......................................... 1103
Power/Authority .............................................. 5101
Pricing Division .............................................. 5131
CAS ADMINISTRATION / OVERHAUL
Monitoring Program .......................................... 5131
Description of Federal Register Documentation .................. 1412
Policy Formation .............................................. 5100
Priorities ..................................................... 5101
University Projects ......................................... 8310
Spinning Solid Upper Stages .................................. 8610
Telecommunications Services .................................. 2530
Productivity ................................................... 1270
PRODUCTIVITY AND QUALITY ENHANCEMENT
Delegation of Authority Policy Responsibilities

PROGRAM(s)
Agency Sponsored ............................................. 7000
Budget Formulation and Execution ................................. 7000
Facilities, Management & Operations ............................. 7000
Formulation ................................................... 7000
Introduction Document (PID) .................................. 8610
Management .................................................... 8000
Operating Plans (POP) ........................................ 7400
Operations ...................................................... 8600
Requirements Document (PRD) .................................. 8610
Support Plan (PSP) ............................................ 8610
PROJECT: Approval Document (PAD) ................................. 7120
Initiation Agreement
Management Principles
Planning and Approval
Project Formulation & Definition
Project Initiation Agreement
Policies
Productivity and Quality and Enhancement .................................. 1270
NAMES: Designation Committee Identification/Official Designations
Planning (Research and Development Planning & Approval - Major R&D) .................................. 7121
Resources Management:
Allocation and Control ........................................ 7000
Information Processing ........................................ 2410
Responsibilities .............................................. 7120
Space Flight Programs ......................................... 7120

PROPERTY (AND SUPPLY):
Definition
Appropriation
Excess Property
Disposal, Foreign Personal/Personal Excess .................................. 4310
Employee Use ................................................... 1900
Equipment Management ......................................... 4000
Inventory Control System ....................................... 4100
Lost/Destroyed, Survey for ..................................... 4200
PERSONAL:
Excess .......................................................... 4300
Exchange or Sale of Foreign Excess, Disposal of Non-NASA Annual Report Non-NASA Excess: ............................................. 4310
Policy Procedures for Utilization of Report Requirements .................. 4300
Surplus .......................................................... 4300
Tort Claims ...................................................... 2080
Procurement Requests ........................................... 5101
Property Disposal Officer/Review Board .................................. 4300
REAL:
Acceptance Of .................................................. 8800
Accountable Officer ............................................ 7232
Acquisition ..................................................... 8811
Approval Relocation Assistance, Displace Persons
Army Corps of Engineers, Leases
Leaseholds, Permits, and Licenses, Services for
Real Property under Management Control
Classification of
Information Requirement for
Procedures for
DEFINITION:
Displaced Persons .............................................. 8811
Easement ....................................................... 8800
Excess Real Property
Holding Agency
Installed Property
Institutional Director ........................................... 8813
Interest in Real Property ...................................... 8813
Leased Property .............................................. 8800
Leasehold Improvements ........................................ 8800
PROPERTY (AND SUPPLY) CONTINUED:

Real Property ................................ 8813
Real Property Accountable Officer ............ 8800
Real Property Under Management Control ...... 8800
Delegation of Authority ..................... 8610
Document Depository ...................... 8800
Facility Planning and Project Coordination 
Inventory of LEASEHOLDS, PERMITS AND LICENSES: . 8613
Army Corps of Engineers, Services
Delegation of Authority for Restrictions On
Record Files of ................................ 8800
Records, Examples of Reporting Requirements for
Transfer or Disposal of ....................... 8613
Scrap/Salvage, Disposal of .................. 4300

SOURCES OF SUPPLY:
FEDSTIP/MILSTRIP Activity Address Codes .......... 4050
Supply Cataloging ............................ 4410
User Charges, Leased/Sold .................... 9080
Utilization and Maintenance of
Federal Cataloging .......................... 4410
... ALSO SEE "Equipment" ...

Protective Clothing and Equipment ............ 1700
PSP (Program Support Plan) .................. 8610

PUBLIC AFFAIRS:
Accident/Mission Failure Investigation .......... 8621
Conferences ................................ 1389
DIRECTOR OF:
Accident/Mission Failure Investigation .......... 8621
Lines of Succession .......................... 1103
Responsibilities ............................ 1103
Freedom of Information (FOIA) ................. 1382
Foreign Government Awards .................... 1395
Nondiscrimination Policy ...................... 1380
Organization Chart ........................... 1103
Policy ................................ 1380
Release of Information ........................ 1382
Reporting Requirements ........................ 1382

APPEARANCES:
Astronauts/Officials ......................... 1384
Exhibits Program ............................ 1387
Information Publications, Educational and Public .... 1392
Motion Picture, Television, and Radio Productions ........ 1394
Speaking Engagements, Acceptance ............ 1385

PUBLICATIONS
Definitions ................................ 2220
Educational and Public ....................... 1392
Distribution
Local Community, Definition Policy Preparation Production Publication .................. 1380

QUALITY ASSURANCE
Aeronautical and Space Systems, Inspection/Provisions for Contractors, Aeronautical and Space Systems .......... 5300
General Provisions ........................ 5310
Government Agencies, Provisions for ................ 5300
Government Supplier Operations, Management of Legislative/Presidential Decisions for ............... 1410
NASA-DoD Relationships ...................... 5311
Reliability, and Responsibility for ............ 5300
Safety & Health ............................ 8710
Contamination Control ........................ 5340
Increases (Personnel) ........................ 3531
Policies and Programs ........................ 5330
Reliability Policies and Programs ............... 5320
Soldered Electrical Connections .......... 5300
Space Shuttle Program ........................ 5300
Status Stamping Requirements ................ 5330

QUARANTINE .................................. 8020
Contamination and Control Definition of Extraterrestrial Exposure Period of Policy Provisions for Unmanned Extraterrestrial Missions

R&D (Research and Development) .......... 7000
R&PM (Research and Program Management) .......... 7000
Radiation, Protection From ................... 1043
RADIO
Communications, Preparation of ..... 1394
(Production of)
FREQUENCY TRANSMISSION:
Acquisition of Communications and
Electronic Equipment .......... 5117
Control of: ........................ 2570
Policy
Responsibility for
Security Classification
Management of: .................... 2570
Definition of
Policy
Procedures for
Responsibility for
Radiological Health ................. 1043
Ready Reserve Personnel, Screening of,
Responsibility ..................... 3303
REAL PROPERTY AND FACILITIES
Land and Improvement:
Acquisition by Transfer .......... 8811
Relocation Assistance, Displaced
Persons .......................... 8811
Responsibility for ................. 8810
Location Priority .................. 8800
Physical Accountability, Recording,
Reporting ........................ 8800
Recording Devices (Conversations/
Investigations/Meetings) ......... 2530
Conditions for
Policy On
RECORDS
Control Schedules .................. 1441
Disposition ........................ 1441
Files, Uniform Index ............... 1442
MANAGEMENT PROGRAM: ............ 1440
Content/Implementation
Definitions:
Non-Record Materials
Official Files
Private Records
Records
Objectives
Responsibilities
VITAL: ............................ 1440
Definitions:
Emergency Operating Records
Rights and Interest Records
Vital Records
Vital Records Protection Plan
Operating Forms
Policy
Reporting
Responsibilities
Selection
Storage
RECORDS AND REPORTS
Aerospace Safety Advisory Panel .. 1156
Auditing .......................... 9910
Management Program, Records ..... 1440
Management Program, Reports ..... 1415
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
Recruitment, Personnel .............. 3330
... ALSO SEE "Personnel" ...
Reference Publications ............. 2220
... ALSO SEE "Publications" ...
Regional Preparedness Committees ... 1040
... ALSO SEE "Emergency" ...
REIMBURSEMENT OF COSTS
Launch Vehicles and Other Space
Flight Services ................. 8610
Space Act Agreements, Delegation
of Authority ..................... 1050
Space Transportation System
Services (STS) ................. 8610
Foreign Users
Non-scientific Payloads
Non-U. S. Government Users
U. S. Government Users
Tracking and Data Relay Satellite
System (TDRSS) .............. 8410
RELIABILITY AND QUALITY ASSURANCE
Basic Policy ....................... 5300
Microbiologically Controlled Environments, 5340
Parts/Materials/Safety Problem
Reporting ......................... 5310
Printed Wiring Boards & Assemblies . 5300
Responsibilities
Soldered Electrical Connections
Requirements
Space Shuttle Program
Stamping Requirements ............ 5330
Relocatable Buildings .............. 8811
Remote Sensing, Sale of Data,
Delegation of Authority for ....... 1050
RENTED VEHICLES
Claims for Collision/Upset Damage .. 9720
Leased/Rented Vehicles ............ 6770
REPORTING
Automatic Data Processing Equipment
Management ....................... 2410
Illegal or Unethical Conduct ....... 9950
Labor-Management Program Actions ... 3711
REPORTS
Automatic Data Processing Equipment
Management ....................... 2410
CONTROL: ........................ 1415
Definitions:
Reporting Systems
Reports
Reports Control Officer
Management System:
Clearance Requirements of
Definitions:
Certifying Officer
Contractor/Public Reports
External/Internal Reports
NASA-Wide/Inter-Installation
Reports
Office of Primary Responsibility
(OPR)
REPORTS CONTINUED: 1415 1415

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
Illegal or Unethical Conduct 9950
Information and Control System 2340
Labor-Management Program Actions 3711
Management Handbook 1415
NASA Facilities Identified During the Past Reporting Period as Being Not Needed or Underutilized 7234
Personal Property Provided to Non-Federal Organizations 4310
Supply Activity, Preparation and Submission 4100

Reprint Charges, Technical Information Documents 9280
Reproduction Machines (Management of) 4200
... ALSO SEE "Printing" ...
Request for Personnel Action Form 3280
Request for Proposal (RFP) 5115

REQUIREMENTS FOR:
Crimping and Wire Wrap 5300
Packaging, Handling, and Transportation 6000
Printed Wiring Boards 5300
Soldered Electrical Connections 5300

RESEARCH
Advanced Research and Technology 7100
Aeronautics and Space Programs 5300
Cooperative Projects 1362
Development, and 7400
Development Planning and Approval Definitions 7120
Major R&D Projects 7121
Major System Acquisitions 7100
Phased Project Planning and Approval 7100
Responsibilities 7120
Space Flight Programs
Human Research 7100
Investigations, Responsibility 7100
Program Management Appropriations 7100
Technology Advisory Council (and) 1156
Technology Objectives and Plans (RTOP) 7100

RESIDENCE ABROAD REQUIREMENT, WAIVER OF: 1370
Policy Procedures for Requests for
Responsibility for
Resident Legal Office, JPL 2000

RESOURCES
Allocation/Control of 7000
Authority Allocation System 7630
Budget Administration Manual 7400
Budget Formulation and Execution Responsibility 1103
MANAGEMENT:
Allocation and Control 7000
Information Processing 2410
Internal Control System 1200

RESTRICTED DATA
Certification for Access to 1630
Definition of 1620

RETREATS, MANAGEMENT:
(NASA-Sponsored) 1200
Background of Definitions:
Management Conference Retreat
Policy for Private Facilities, Use of
Approval for Reporting on

Returnable Containers 4060
Revolvers 1620
Roads, Naming of (NASA Installations) 1022
Rocket Motors, Shipment of
Responsibility 1152
... ALSO SEE "Transportation" ...

ROLE AND RESPONSIBILITIES
... ALSO SEE "Field Installations" ...
Aeronautics and Space Technology 1102
Associate Deputy Administrator 1103
Budget Operations Division
Chief Engineer
Chief Scientist
Commercial Programs
Comptroller
DoD Affairs Division
Equal Opportunity Programs
External Relations
Financial Management Division
General Counsel
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
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

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 Distribution/Availability Emergency
Identification of NASA-Originated/Adopted Objectives of Procurements for Responsibilities
STS Payloads, Safety Policy and Requirements ........... 1700

SEAL

NASA ............................................. 1020
Printing or Use of ......................... 1490

SEB (Source Evaluation Board) .......... 5115

Secret Information (Control of) ........ 1630
... ALSO SEE "Classified" ...

SECURITY

AREAS: ........................................... 1620

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 ... 1640
(Background/Objectives)
Control of Classified Information .. 1630
Data Processing ......................... 2410

DECLASSIFICATION/DOWNRADING: .... 1640

After 30 years
Burden of Proof
Exemptions
Restricted Data
Review Request/Requirements
Schedule

DEFINITIONS: .................................. 1640

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:

EDUCATION: ........................................... 1620
Minimum Standards/Procedures for
Responsibilities for
Support Material for
Termination Interview
GUIDELINES: ........................................ 1640
Exceptional Cases
Follow-on Actions
Non-Documentation Classification
Official Assistance
Open Publication
Proprietary Information
State-of-the-Art/Intelligence
Unprocessed Data
INDUSTRIAL: ......................................... 1650
Classified Contract:
Award of
Security Requirements for
Contractor Facility Clearance:
Determination of
Request for
Definitions:
Access
Classified Contract
 Classified Information
Cognizant Security Officer
Contractor
Facility Security Clearance
"Need to Know"
Security Classification Officer
Responsibility for
INFORMATION PROCESSING: .................. 2410
Computer Security Program
Office Automation Systems
Privacy, Integrity, and Security
of Data
Security Assurance
Investigations ................................. 9950
LEGAL BASIS:
Executive Orders 11652 & 10865 ... 1640
Space Act of 1958 ................. 1640
NASA Policy .............................. 1640
News Releases ......................... 1380
OFFICER RESPONSIBILITIES ............. 1620
PERSONNEL: ................................. 1610
 Classified Information, Alien
 Access to
 Clearance, Suspension of
 Criteria for
 Cryptographic Information, Access
 Definitions:
 Access
 Alien
 Classified Information
 Computation of Time
 Cryptographic Information
 Employee
 Full Field Investigation
 immigrant Alien
 National Agency Check
 National Agency Check and
 Written Inquiries
 Sensitive Position
 Delegation of Authority
 Handbook

SECURITY CONTINUED:

Investigations: ............................... 1610
 Requirements
 Updating
 Policy
 Reemployment
 Reports Status
 Security Hearing Board:
 Membership of
 Procedures of
 Suspensions:
 Clearance
 Employment
 Physical Security ......................... 1620
 PRINCIPLES/CONSIDERATIONS: .............. 1640
 Classification Reasons
 Combination/Interrelation/
 Compilation
 Dissemination
 Information Identification
 Internal Effect
 Restricted Data
 Responsibilities
 Security Classification Program
 Committee ............... 1152
 Security Enhancement Program: ........ 1620
 Provisions
 Responsibilities
 Space Transportation System ........ 8610
 STORAGE EQUIPMENT: ....................... 1620
 Custodial Responsibilities of
 Inspection of
 Locking Devices for
 Restriction in Use of
 Surveys ................................. 1690
 VIOLATIONS: .............................. 1620
 Action Required in Event of
 Possible Loss or Compromise of
 NATO Information
 Emergency Action/Reporting
 Requirements for
 Security Officer Actions for
 Selection of Personnel ............. 3300
 ... ALSO SEE "Personnel"
 Selling to NASA ......................... 5100
 ... ALSO SEE "Procurement"
 SENIOR EXECUTIVE SERVICE (SES) ......... 3100
 Definitions:
 Career Reserved Position
 General Position
 Senior Executive
 Senior Executive Service Position
 Executive Position Managers
 Management of
 NASA Executive Resources Board
 NASA Performance Review Board
 NASA SES Executive Position Managers
 Responsibilities
 Senior Executive Committee

Also see "Personnel"...
<table>
<thead>
<tr>
<th>Index NRS</th>
<th>Index NRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. No.</td>
<td>No. No.</td>
</tr>
<tr>
<td>1610</td>
<td>2410</td>
</tr>
<tr>
<td>SENSITIVE POSITION</td>
<td>SOFTWARE</td>
</tr>
<tr>
<td>Critical:</td>
<td>Management:</td>
</tr>
<tr>
<td>Definition of</td>
<td>Flight Projects</td>
</tr>
<tr>
<td>Investigative Requirements for</td>
<td>U.S. Government Users</td>
</tr>
<tr>
<td>Noncritical:</td>
<td>Resource Sharing</td>
</tr>
<tr>
<td>Definition of</td>
<td>5100</td>
</tr>
<tr>
<td>Investigative Requirements for</td>
<td></td>
</tr>
</tbody>
</table>

Service Contracts .................................. 5100

... ALSO SEE "Procurement" ...

SERVICES

Commercial or Industrial ......................... 7410

NASA:
- Tracking and Data Relay Satellite System ............ 8410
- User Charges ........................................ 9080

SES Executive Position Managers ................. 3100

Shelf Life Program .................................. 4100

Shelters (Fallout) .................................. 1043

SHIPMENTS

Household Goods ..................................... 9760
Rocket Motors ....................................... 9760

NASA Internal Committee for Permits to Transport Rocket Motors 1152

SHUTTLE

ASTRONAUTS:
- Official Flight Kits ................................ 1900
- Personal Preference Kits ............................ 1900
- Recruitment and Selection ........................ 3330

Landing Facility, KSC ............................... 6000

PROGRAM:

Articles Carried on Flights/Authorization .......... 1900

Communications, Voice ................................ 8610

Flight Kits (Official) .............................. 1900

KSC Program Responsibilities ...................... 1107

Maintainability/Quality Provisions ................. 5300

Safety/Reliability .................................. 5300

NASA and NASA-Related Payloads ..................... 8610

Personnel Reliability ................................ 8610

REIMBURSEMENT: ...................................... 8610

Foreign Users
- Non-Scientific Payloads ........................... 8610
- Non-U.S. Government Users ........................ 8610
- U.S. Government Users ............................. 8610

Sick Leave ............................................ 3630

SMALL AND DISADVANTAGED BUSINESS UTILIZATION, OFFICE OF

Policy ................................................. 5000

Roles and Responsibilities ....................... 1103

Smallpox Vaccination Certificate .................. 1820

SMB (Space Medicine Board) ....................... 1152

SMPB (Space Medicine Policy Board) ............... 1152

SOURCE EVALUATION BOARDS (SEB): ................. 5115

Decision and Review Responsibility Handbook
Letter of Designation
Proceedings, Prevention of Improper Disclosure of:
Policy
Responsibility for Report Guidelines
Secretary of Statement of Employment/Financial Interests ............ 1900

Statements of Work .................................. 5600

SOW (Statement of Work Handbook) ................. 5600

SP (Special Publications) .......................... 2220

SPACE

Act of 1958 ........................................... 1640

Act Agreements: ...................................... 1050

Delegation of Authority for Nonreimbursement of Costs
Reimbursement of Costs
Applications Advisory Committee .................... 1156

Flight Experiments / Data Analysis ................ 8030

Flight Services, Reimbursement .................... 8610

Hardware, Microbiological Examination of ......... 5340

Investigations, Outside Proposals For ............. 8000

Medicine Board (SMB) and Medicine Policy Board (SMPB) ........ 1152

Systems, Termination of ............................ 8640

SPACE FLIGHT:

Audit Reports ....................................... 9920

Contamination Control: ............................ 8020

Lunar and Planetary Outbound Spacecraft
Medical Support: .................................. 8900

Functional Relationships
Implementation Procedures
Objectives
Responsibilities
Flight Tests
Ground Test Planning
Occupational Medicine
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
<table>
<thead>
<tr>
<th>Index NRS No.</th>
<th>Index NRS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPACE FLIGHT CONTINUED:</strong></td>
<td><strong>SPACE TRANSPORTATION SYSTEM (STS)</strong></td>
</tr>
<tr>
<td>GSFC Responsibilities .......... 1107</td>
<td>Agreements: ................................ 8610</td>
</tr>
<tr>
<td>JPL Responsibilities .......... 1102</td>
<td>Documentation Management</td>
</tr>
<tr>
<td>Organization Chart .......... 1102</td>
<td></td>
</tr>
<tr>
<td>Participants .......... 3970</td>
<td>Articles Carried on Flights/</td>
</tr>
<tr>
<td>Program and Project Management: ........................................ 7120</td>
<td></td>
</tr>
<tr>
<td>Definitions Policies Responsibilities</td>
<td></td>
</tr>
<tr>
<td>Safety ................................ 1156</td>
<td></td>
</tr>
<tr>
<td>Software, Management of .......... 2410</td>
<td></td>
</tr>
<tr>
<td><strong>SPACE SCIENCE (AND) APPLICATIONS, OFFICE OF:</strong> .......... 1102</td>
<td></td>
</tr>
<tr>
<td>Associate Administrator for Authority to Act for Responsibilities</td>
<td></td>
</tr>
<tr>
<td>GSFC Responsibilities .......... 1107</td>
<td></td>
</tr>
<tr>
<td>Investigations/Announcement of Opportunity Process .......... 7100</td>
<td></td>
</tr>
<tr>
<td>Organization Charts .......... 1102</td>
<td></td>
</tr>
<tr>
<td>Scientific/Technical Information, Authority for ................ 2200</td>
<td></td>
</tr>
<tr>
<td>Applications Steering Committee (SSASC) ......................... 1152</td>
<td></td>
</tr>
<tr>
<td><strong>FLIGHT INVESTIGATIONS:</strong> .......... 8030</td>
<td></td>
</tr>
<tr>
<td>Data Analysis Data Dissemination</td>
<td></td>
</tr>
<tr>
<td>Space Shuttle ...................... 8610</td>
<td></td>
</tr>
<tr>
<td>... ALSO SEE &quot;Shuttle&quot;...</td>
<td></td>
</tr>
<tr>
<td><strong>SPACE STATION Office of:</strong> .......... 1102</td>
<td></td>
</tr>
<tr>
<td>Associate Administrator Authority to Act for Responsibilities</td>
<td></td>
</tr>
<tr>
<td>GSFC Responsibilities .......... 1107</td>
<td></td>
</tr>
<tr>
<td>Organization Chart .......... 1102</td>
<td></td>
</tr>
<tr>
<td><strong>Space Systems and Technology Advisory Committee:</strong> .......... 1156</td>
<td></td>
</tr>
<tr>
<td><strong>SPACE TRACKING AND DATA SYSTEMS Office of:</strong> .......... 1102</td>
<td></td>
</tr>
<tr>
<td>Associate Administrator for Authority to Act for Position Objectives Responsibilities</td>
<td></td>
</tr>
<tr>
<td>Communications Responsibilities .......... 2520 Scientific/Technical Information Authority for .......... 2200</td>
<td></td>
</tr>
<tr>
<td>GSFC Responsibilities .......... 1107</td>
<td></td>
</tr>
<tr>
<td>Organization Chart/Relationships .......... 1102</td>
<td></td>
</tr>
<tr>
<td>Support Operations: Responsibilities .......... 8621</td>
<td></td>
</tr>
<tr>
<td>Space Systems, Termination .......... 8640</td>
<td></td>
</tr>
<tr>
<td>Unmanned Space Flight Projects .......... 8430</td>
<td></td>
</tr>
<tr>
<td><strong>SUPPLIES</strong></td>
<td></td>
</tr>
<tr>
<td>Activity Report, Preparation and Submission: .......... 4100 Instructions Procedures</td>
<td></td>
</tr>
</tbody>
</table>
SUPPLY AND EQUIPMENT MANAGEMENT

Director: ............................... 4340
Responsibilities:
- Foreign Excess Personal Property, Disposal of Materials/Precious Metals, Recovery of .......... 4300
- Equipment Management Manual .......... 4200
- Federal Catalog System ................. 4410
- Materials Inventory Management Handbook .......... 4100
- Property Custodian User's Guide .......... 4200
- Reporting Requirements ................. 4210
- Supply Cataloging ..................... 4410
- Sources of Supply ..................... 4050
(SFEDSTRIP/MILSTRIP)

Support Services .......................... 7410
Surplus Property .......................... 4300
Surveillance, Electronic .................... 2530
Suspensions, Contractors ................... 5101
Sustained Superior Performance Award (SSP) ................... 3451

SYMBOLS, OFFICIAL NASA: ................. 1020
- Establishment/Technical Description
  Astronaut Badges
  Flags
  Insignia
  Program Badges
  Seal
  Policy for Use of
  Violations of

SYMPOSIA
- Classified Symposia .................... 1620
- International Affairs .................. 1360
- Technical Symposia .................... 1350

System Safety Handbook .................... 1700

TECHNOLOGY
- Export Control .......................... 2190
- Recoupment Policy ...................... 7127
- Research Activity ...................... 7100
- RTOP Management System ................ 7100
- Transfer ................................ 2180
- Utilization: Material
  Definition of Foreign Access to
  Responsibility for

TELECOMMUNICATIONS
- Delegation of Authority for .......... 2530
- Federal Telecommunications System (FTS) ............... 2520

TELEPHONES
- Charges, Certification of ................ 9090
- Administrative Controls .................. 2540
- Long-Distance Calls ...................... 2540
- Charges of ......................... 9090
- Maintenance ........................... 9050
- Personal ................................ 2540
- Procedures for ......................... 9090
- Recording/Interception of Calls: Conditions for Policy
  ... ALSO SEE "Communication" ...

TELEVISION
- Development Division, External .......... 1103
  Relations Office, Director:
    Position Objectives
    Responsibilities
  Productions ................................ 1394
  ... ALSO SEE "Motion Picture" ...

TORT CLAIMS ............................... 2080
- Annual Report Requirements Definitions:
  Chief Counsel
  Claim
  Claimant
  General Counsel
  Filing Requirements
  Forms for ...................... 2082
  Government Property, Damage/Loss ........ 2080
- Justice Department, Approval for 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
<table>
<thead>
<tr>
<th>Index NRS No. No.</th>
<th>Index NRS No. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRACKING AND DATA</td>
<td></td>
</tr>
<tr>
<td>Acquisition .......... 8400</td>
<td></td>
</tr>
<tr>
<td>Relay Management Satellite System (TDRSS) .......... 8410</td>
<td></td>
</tr>
<tr>
<td>Traffic Management Programs .......... 6200</td>
<td></td>
</tr>
<tr>
<td>... ALSO SEE &quot;Transportation&quot; ...</td>
<td></td>
</tr>
<tr>
<td>TRAINING</td>
<td></td>
</tr>
<tr>
<td>Employee: ................. 3410</td>
<td></td>
</tr>
<tr>
<td>Programs:</td>
<td></td>
</tr>
<tr>
<td>Continuing Education (CEP)</td>
<td></td>
</tr>
<tr>
<td>Outside the U.S.</td>
<td></td>
</tr>
<tr>
<td>Supervisory</td>
<td></td>
</tr>
<tr>
<td>Within the U.S.</td>
<td></td>
</tr>
<tr>
<td>Transcription of Conversations/Meeting Policy on .......... 2530</td>
<td></td>
</tr>
<tr>
<td>Transoceanic Communications .......... 2500</td>
<td></td>
</tr>
<tr>
<td>... ALSO SEE &quot;Communications&quot; ...</td>
<td></td>
</tr>
<tr>
<td>TRANSPORTATION</td>
<td></td>
</tr>
<tr>
<td>Aeronautical and Space Systems</td>
<td></td>
</tr>
<tr>
<td>Packing and Handling Requirements .......... 6000</td>
<td></td>
</tr>
<tr>
<td>Management Programs .......... 6200</td>
<td></td>
</tr>
<tr>
<td>Motor Vehicle, Policy on .......... 6720</td>
<td></td>
</tr>
<tr>
<td>Shuttle Landing Facility, KSC</td>
<td></td>
</tr>
<tr>
<td>Responsibility for .......... 6000</td>
<td></td>
</tr>
<tr>
<td>Travel, Authorization .......... 9710</td>
<td></td>
</tr>
<tr>
<td>TRAVEL</td>
<td></td>
</tr>
<tr>
<td>Regulations:</td>
<td></td>
</tr>
<tr>
<td>Authorizations .......... 9710</td>
<td></td>
</tr>
<tr>
<td>Communist-Dominated Countries:</td>
<td></td>
</tr>
<tr>
<td>Authorization:</td>
<td></td>
</tr>
<tr>
<td>Procedures .......... 1620</td>
<td></td>
</tr>
<tr>
<td>Responsibility for .......... 1620</td>
<td></td>
</tr>
<tr>
<td>Communist Countries .......... 1620</td>
<td></td>
</tr>
<tr>
<td>Delegation of Authority .......... 9710</td>
<td></td>
</tr>
<tr>
<td>Employee, Definition of .......... 1620</td>
<td></td>
</tr>
<tr>
<td>Employee Information for</td>
<td></td>
</tr>
<tr>
<td>Policy on</td>
<td></td>
</tr>
<tr>
<td>Procedures for</td>
<td></td>
</tr>
<tr>
<td>Purpose of</td>
<td></td>
</tr>
<tr>
<td>Security Officer/Actions</td>
<td></td>
</tr>
<tr>
<td>Definitions .......... 1620</td>
<td></td>
</tr>
<tr>
<td>Approval of .......... 9710</td>
<td></td>
</tr>
<tr>
<td>Change of, Guide for .......... 9760</td>
<td></td>
</tr>
<tr>
<td>Delegation of Authority .......... 9710</td>
<td></td>
</tr>
<tr>
<td>Expenses .......... 1900</td>
<td></td>
</tr>
<tr>
<td>Foreign Currency, Use of: .......... 9393</td>
<td></td>
</tr>
<tr>
<td>Excess/Non-Excess</td>
<td></td>
</tr>
<tr>
<td>Responsibility for</td>
<td></td>
</tr>
<tr>
<td>Foreign .......... 9710</td>
<td></td>
</tr>
<tr>
<td>Medical Services .......... 1820</td>
<td></td>
</tr>
<tr>
<td>Reimbursable Arrangements .......... 9710</td>
<td></td>
</tr>
<tr>
<td>Rented Vehicles, Claims for</td>
<td></td>
</tr>
<tr>
<td>Collision/Upset Damage .......... 9730</td>
<td></td>
</tr>
<tr>
<td>Treasury Department, U.S. .......... 7400</td>
<td></td>
</tr>
<tr>
<td>Trust Fund .......... 7800</td>
<td></td>
</tr>
<tr>
<td>Typewriters .......... 4300</td>
<td></td>
</tr>
<tr>
<td>... ALSO SEE &quot;Property&quot; ...</td>
<td></td>
</tr>
</tbody>
</table>

**U.S. Government Manual .............. 1410**

**Unethical or Illegal Conduct, Investigation and Reporting of ........ 9950**

**Uniform Relocation Assistance Act, Real Property Acquisition .......... 8811**

**Uniform Files Index/Handbook (NASA) ..... 1442**

**Uniforms ....................... 3594**

**Union ............... 3711**

... ALSO SEE "Personnel" ...

**Universal Documentation System, DoD .... 8610**

**UNIVERSITY AFFAIRS**

**Education:**

- Exhibits Program .......... 1387
- Personnel Training/Development .......... 3410
- Programs .......... 1392
- Foreign Travel, Approval .......... 9720
- Grants/Contracts, Termination of .......... 8340
- Projects, Funding of: .......... 8310

**Definitions**

- Procedures for
- Responsibilities for

**Relationships:** .......... 8320

**Guidelines**

- Policy
- Responsibilities
- University, Definition of

**UNMANNED SPACE FLIGHT PROJECTS**

**Quarantine/Provisions .......... 8020**

**Space Systems, Termination .......... 8640**

**Tracking and Data Acquisition**

- Support: .......... 8430
- Documentation System/Procedures
- Policy
- Responsibilities

**Upward Mobility Program / Handbook .... 3410**

**USA (U.S. Army) .......... 8811**

... ALSO SEE "Defense" ...

**USAF (U.S. Air Force) .......... 8610**

... ALSO SEE "Defense" ...

**USDA (U.S. Department of Agriculture) ... 8020**

**User Charges .......... 9080**

... ALSO SEE "Financial" ...

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
   ... ALSO SEE "property" ...

-----------------------------

******** ** W ****

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

-----------------------------

******** ** W ****

Wage Board 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) ...
   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: ............................ 5300
   Crimping
   Printed Boards
   Conformal Coating
   Staking
   Requirements
WORK-RELATED INJURY COMPENSATION: .... 3810
Definitions
Policies
Responsibilities
Writing ........................................ 1900

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 Aeronautics.

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.

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 06 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 31 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; astronautic navigation 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 80 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.
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.

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

**02 AERODYNAMICS**

**AERODYNAMIC CHARACTERISTICS**
Lift, drag, and factors affecting pitch, roll and yaw.

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

**AIRFOIL AND WING AERODYNAMICS**
Aerodynamics of wings and airfoil shapes and forms; supercritical wing.

*RELATED TOPICS:*

Wind Tunnels
Wind tunnel and shock tube installations, test programs, and technology.
Boundary Layer Technology
Boundary layer flow and mechanics, including boundary layer control, combustion control, separation, transition, and turbulence.

**03 AIR TRANSPORTATION AND SAFETY**

**COMMERCIAL AND GENERAL AVIATION**
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**
Helicopters, rotary wing aircraft, ground effect machines, hovercraft, flying platforms, etc.

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

**SUPersonic TRANSPORT**
Research in supersonic, transonic, and hypersonic transport types, concepts, specifications, and performances.

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

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

**CLEAR AIR TURBULENCE**
Causes, effects, and methods of detection.

**04 AIRCRAFT COMMUNICATIONS AND NAVIGATION**

*RELATED TOPIC:*

Navigation Systems
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
Hydraulic and pneumatic components, systems, and instrumentation.

AUXILIARY ELECTRICAL SYSTEMS
Electric auxiliary power supply systems, distribution systems, components, and applications.

06 AIRCRAFT INSTRUMENTATION

RELATED TOPIC
Spacecraft and Aircraft Instrumentation
Spacecraft and aircraft instruments, gauges, indicators, and instrument systems.

07 AIRCRAFT PROPULSION AND POWER

JET PROPULSION
Turbojet, pulsejet, and ramjet propulsion systems including specific engines

08 AIRCRAFT STABILITY AND CONTROL

RELATED TOPICS
Aerodynamic Characteristics
Lift, drag, and factors affecting pitch, roll and yaw
Boundary Layer Technology
Boundary layer flow and mechanics, including boundary layer control, combustion control, separation, transition, and turbulence

09 RESEARCH AND SUPPORT FACILITIES (AIR)

WIND TUNNELS
Wind tunnel and shock tube installations, test programs, and technology. See also Subject Group 02, Aerodynamics

RELATED TOPIC
Commercial and General Aviation
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
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
Mathematical calculations for celestial mechanics, spacecraft orbits and spacecraft and ballistic trajectories

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)

SPACECRAFT GROUND SUPPORT
Launch facilities, control networks, vehicle maintenance and servicing. For spacecraft tracking stations and networks, see topics 17-04 and 32-03

TEST FACILITIES
Test ranges, centrifuges, engine test stands, rocket test installations, and reactor test facilities
SIMULATORS AND SIMULATION
Solar, space, and environment simulators, vacuum chambers, and simulation programs, methods, and technology.

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

RELATED TOPICS:
Wind Tunnels
Wind tunnel and shock tube installations, test programs, and technology. See also Subject Group 02, Aerodynamics.

Tracking
Tracking installations, personnel, equipment, and systems using radio, radar, infrared, or optical techniques.

Communication Equipment
Communication equipment, including radio, microwave, infrared, light and television equipment.

15 LAUNCH VEHICLES AND SPACE VESICLES
LAUNCH VEHICLES
Atlas, Saturn, Titan, other large and medium launch vehicles.

SOUNDING ROCKETS
Upper atmosphere aerology and meteorology probes and other small launch vehicles.

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

SCIENTIFIC SATELLITES
Geophysical and astronomical satellites, orbiting observatories, Discoverer and Explorer satellites.

REENTRY VEHICLES
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
All U.S.S.R. spacecraft and programs, manned and unmanned.

RELATED TOPICS:
Spacecraft Ground Support
Launch facilities, control networks, vehicle maintenance and servicing. For spacecraft tracking stations and networks, see 17-04 and 32-03.

Spacecraft and Aircraft Instrumentation
Spacecraft and aircraft instruments, gauges, indicators, and instrument systems.

Communication Satellites
INTELSAT, WESTAR, MARISAT, and other domestic and foreign communication satellites.

Meteorological Satellites
Nimbus, Tiros, and meteorological data from satellites.

16 SPACE TRANSPORTATION
SPACE TRANSPORTATION AND MANNED SPACECRAFT
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
Reentry, lunar, interplanetary, satellite, and spacecraft communications. Does not include references to Communication Satellites, for which see 32-01.
NAVIGATION SYSTEMS
Spacecraft and aircraft navigation systems including star trackers, inertial systems, Doppler and stellar navigation; and navigation instruments.

GUIDANCE SYSTEMS
Spacecraft guidance and control, midcourse guidance and reentry guidance, and spacecraft guidance systems.

TRACKING
Tracking installations, personnel, equipment, and systems using radio, radar, infrared, or optical techniques.

RELATED TOPICS:
Radar Equipment
Radar types, applications and component parts.
Antennas
Radar and radio antennas and applications.
See also topics under Subject Group 32. Communications.

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE
SPACERRAFT ATTITUDE CONTROL AND STABILIZATION
Attitude control system, stability techniques, and instrumentation.
RENDEZVOUS AND DOCKING
Rendezvous guidance, rendezvous trajectories and docking techniques.

19 SPACECRAFT INSTRUMENTATION
SPACECRAFT AND AIRCRAFT INSTRUMENTATION
Spacecraft and aircraft instruments, gauges, indicators, and instrument systems.
SENSORS AND TRANSDUCERS
Sensing elements used in space vehicles or aerospace services; pressure, temperature, acoustic transducers, etc.

RELATED TOPICS:
Navigation Systems
Spacecraft and aircraft navigation systems including star trackers, inertial systems, Doppler and stellar navigation, and navigation instruments.
Telemetry
Data transmission and measuring, biotelemetry, telephotometry, and telepsychometry.
Bioinstrumentation
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
Specific engines used in rocket propulsion, nozzle and thrust chamber design, materials, and performance.

AUXILIARY PROPULSION
Spacecraft propulsion systems other than the main propulsion system (i.e., steering jets, retrorockets, and propulsion units for extravehicular operations).

ELECTRIC PROPULSION
Propulsion systems by charged electrical particles accelerated by electrical or magnetic fields; includes electromagnetic and electrostatic propulsion.

RELATED TOPIC:
Jet Propulsion
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.

RELATED TOPIC:
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
Types of adhesives, properties and uses.

CERAMICS
Specific ceramics, properties, and uses.

ELASTOMERS
Specific elastomers, properties and uses.

GRAPHITE
Graphite, pyrolitic graphite, pyrographic alloy; properties and uses.

POLYMERS
Types of polymers, properties and uses; polymer chemistry and polymer physics.

28 PROPELLANTS AND FUELS

LIQUID PROPELLANTS
Cryogenic, hydrogenic, and thixotropic propellants; uses, properties, manufacture, storage and handling; oxidizers and igniters used with liquid propellants.

SOLID PROPELLANTS
Types, uses, properties; manufacture, storage and handling, propellant grain studies, and oxidizers and igniters used with solid propellants.

ENGINEERING

31 ENGINEERING (GENERAL)
RELATED TOPICS:
See specific topics under Subject Groups 32-39.

32 COMMUNICATIONS

COMMUNICATION SATELLITES
INTELSAT, WESTAR, MARISAT, and other domestic and foreign communications satellites.

COMMUNICATION EQUIPMENT
Communication equipment, including radio, microwave, infrared, light and television equipment.

COMMUNICATION SYSTEMS
Types of communication systems; e.g., television, digital, etc., and specific systems; e.g., Defense Communication Systems, Deep Space Network, etc.

TELEMETRY
Data transmission and measuring biotelemetry, telephotometry, and telepsychometry.

RADIO NOISE
Studies of radio noise sources, random noise, signal-to-noise ratio, noise reduction, and noise measurement.

COMMUNICATION THEORY
Information theory, coding automata theory, signal processing, and decision theory.
RELATED TOPICS:
Radar Equipment
Radar types, applications and component parts.

Antennas
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
Radar types, applications, and component parts.
SEMICONDUCTORS AND TRANSISTORS
Semiconductors and transistors; types, devices, materials, and applications. See also Solid State Devices. 76-01.

ANTENNAS
Radar and radio antennas and applications.

ELECTRONIC COMPONENTS
Types, design, applications, packaging, and reliability.

CIRCUITRY
Circuit theory, production techniques, reliability, protection, and applications. For microcircuits see 33-10, Microelectronics.

ELECTRICAL EQUIPMENT
Generators, motors, connectors, and insulation; design and application.

AMPLIFIERS
Types of electronic amplifiers, design, and application. For fluid amplifiers see also 34-03, Fluidics.

FEEDBACK AND CONTROL THEORY
Systems, techniques, and designs.

ELECTROMAGNETIC RADIATION
Wave propagation, electromagnetic effects, properties, detection, and application.

MICROELECTRONICS
Microcircuits, microelectronic devices and components, microminiaturized electronic equipment.

MICROWAVE AND SUBMILLIMETER WAVE TECHNOLOGY
Microwave research, measurement techniques, generation, modulation, and absorption.

MAGNETISM
Theory and research, aeromagnetism, ferromagnetism, hydromagnetism, paramagnetism, and thermomagnetism.

RELATED TOPICS:
Auxiliary Electrical Systems
Electric auxiliary power supply systems, distribution systems, components, and applications.
Communication Equipment
Communication equipment, including radio, microwave, infrared, light, and television equipment.

34 FLUID MECHANICS AND HEAT TRANSFER
BOUNDARY LAYER TECHNOLOGY
Boundary layer flow and mechanics, including boundary layer control, combustion control, separation, transition, and turbulence.

GAS DYNAMICS
Applied and theoretical gas dynamics, problem solving, hypersonic and rarefied gas dynamics.

FLUIDICS
Fluid amplification, fluid logic circuits, and fluid devices.

FLUID FLOW
Liquid flow, hydromechanics, and cavitation flow; does not include gas or air flow.

COMBUSTION PHYSICS
Combustion phenomena, kinetics, instability, detonation, theory.

HEAT TRANSFER, BASIC
Characteristics and studies of various forms of heat transfer, heat dissipation, and heat resistance.

REENTRY HEAT TRANSFER
Heat transfer problems on reentry and their solution.
THERMAL PROTECTION
Methods and materials used in thermal insulation and protection and for various types of cooling.

ABLATION
Ablation studies, ablating materials, and application to reentry vehicles and rocket nozzles.

CRYOGENICS
Low temperature research. For cryogenic propellants see 28-01.

RELATED TOPICS:
Aerodynamic Characteristics
Lift, drag, and factors affecting pitch, roll and yaw.
Gas Flow Measurement
Devices, applications and systems for measuring gas flow.

35 INSTRUMENTATION AND PHOTOGRAPHY

PHOTOGRAPHY
Cameras and photographic equipment and methods including optical, aerial, and radar photography.

INFRARED TECHNOLOGY
Infrared devices, including scanners, detectors, filters, cameras, and masers.

INSTRUMENT STANDARDS AND CALIBRATION TECHNIQUES
Measurement and radiation standards and calibration of instruments.

TEMPERATURE MEASUREMENT
Heat and temperature measuring devices, applications, and systems.

PRESSURE MEASUREMENT
Pressure measuring devices, applications, and systems.

DISPLAY SYSTEMS
Cathode ray tubes and display techniques and principles.

DATA RECORDING
Data recorders and recording systems and techniques.

GAS FLOW MEASUREMENT
Devices, applications and systems for measuring gas flow.

RELATED TOPICS:
Navigation Systems
Spacecraft and aircraft navigation systems including star trackers, inertial systems, Doppler and stellar navigation, and navigation instruments.

Telemetry
Data transmission and measuring, biotelemetry, telephotometry, and telepsychometry.

Meteorological Instruments
Types and uses of meteorological instruments.

Bioinstrumentation
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
References to lasers and masers in general, laser theory, and types of lasers and masers.

LASER APPLICATIONS
Lasers communications, laser photography, and laser ranging.

37 MECHANICAL ENGINEERING

BEARINGS AND GEARS
Types of bearings and gears, uses, materials, and applications.
LUBRICATION AND LUBRICANTS
Lubrication materials, systems, and applications. 37-02

MACHINING
Machining processes and techniques and machine tools. 37-03

FRICTION AND WEAR
Types of friction, friction measurement and effects, frictionless environment, and wear effects. 37-04

SEALS
Sealants, gaskets, packing, leakage, self-sealing materials, and sealing techniques. 37-05

WELDING
Brazing, bonding, soldering, and welding techniques and processes; weldability of various materials, and properties and characteristics of welds. 37-06

METAL FORMING
Theory, techniques, and processes of metal forming other than machining. 37-07

PUMPS
Pumps, pump seals, and pumping in aerospace technology. 37-08

VACUUM TECHNOLOGY
Vacuum systems, techniques and processes; vacuum testing measurement and material fabrication. 37-09

NONDESTRUCTIVE TESTING
Techniques and processes for the nondestructive testing of materials, including infrared, ultrasonic, and X-ray testing. 37-10

TURBOMACHINERY
Axial flow machines, centrifugal compressors and pumps, gas turbines, turbocompressors, turbine pumps, turbofans, turbogenerators. 37-11

38 QUALITY ASSURANCE AND RELIABILITY
QUALITY CONTROL AND RELIABILITY
Product development, qualitative testing and analysis of materials and structures, and reliability criteria for components and structures. 38-01

39 STRUCTURAL MECHANICS
SHELLS
Shell structures, stresses, loads, buckling and vibration. 39-01

STRESSES AND LOADS
Stresses and loads on launch vehicles, spacecraft, and aerospace structures. 39-02

STRUCTURE VIBRATION AND DAMPING
Vibration and damping in aerospace structures, spacecraft and airframes; panel flutter. 39-03

IMPACT PHENOMENA
Studies of impact phenomena in aerospace structures and components; also micrometeoroid impact damage. 39-04

STRUCTURAL FATIGUE
Fatigue studies and analysis, techniques for aerospace structures and components. 39-05

SANDWICH CONSTRUCTION
Honeycomb, multilayer and laminated fabrication, techniques and structures. 39-06

STRESS ANALYSIS
Stress calculation and analysis of structures. 39-07

STRUCTURAL TESTS AND RELIABILITY
Destructive and nondestructive testing and reliability of aerospace structures. 39-08
GEOSCIENCES

42 GEOSCIENCES (GENERAL)

RELATED TOPICS:
See specific topics under Subject Groups 43-48.

43 EARTH RESOURCES

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

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

RELATED TOPICS:
Water Resources and Oceanography
Water conservation and development: hydrology; remote sensing of floods, snow cover, ice; oceanography; other hydrosphere studies.

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.

44 ENERGY PRODUCTION AND CONVERSION

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

FUEL CELLS AND CHEMICAL BATTERIES
Electrochemical, biochemical and regenerative fuel cells; silver-cadmium, nickel-oxide and other batteries.

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

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

45 ENVIRONMENT POLLUTION

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

GEOL OGY AND SEISMOLOGY
Earth geology, petrography, and orography: earthquake detection, measuring and recording instruments, and theoretical models.

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

RELATED TOPICS:
Sounding Rockets
Upper atmosphere aerology and meteorology probes, and other small launch vehicles.
Meteorological Satellites
Nimbus, Tiros, meteorological data from satellites.

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

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

47 METEOROLOGY AND CLIMATOLOGY
METEOROLOGICAL SATELLITES
Nimbus, Tiros, meteorological data from satellites.

WEATHER FORECASTING
Methods and instruments of weather data acquisition and processing; theory and methods of weather prediction.

MICROMETEOROLOGY
Smallest scale observation of physical and dynamic occurrences within the surface boundary layer of the atmosphere; includes turbulence, air pollution, launch conditions.

CLOUD RESEARCH
Types of cloud formation, cloud physics, nephanalysis, and cloud seeding.

METEOROLOGICAL INSTRUMENTS
Types and uses of meteorological instruments.

RELATED TOPICS:
Upper Earth Atmosphere
Earth atmosphere above the troposphere; ionospheric composition, phenomena, chemical reactions and satellite measurement.

Sounding Rockets
Upper atmosphere aerology and meteorology probes and small launch vehicles.

48 OCEANOGRAPHY
WATER RESOURCES AND OCEANOGRAPHY
Water conservation and development; hydrology; remote sensing of floods, snow cover, ice; oceanography, other hydrosphere studies.

LIFE SCIENCES

51 LIFE SCIENCES (GENERAL)
BIOLOGY (GENERAL)
Microbiology, ecology, botany, genetics and cytology.

BIOCHEMISTRY
Chemistry of living organisms and physiochemistry.

52 AEROSPACE MEDICINE
AEROSPACE MEDICINE
Aerospace medical problems and studies, e.g., toxicity and weightlessness; medical aspects of astronaut performance reaction, and neurophysiology.

CLINICAL MEDICINE
General medicine, body systems and functions, diseases, and drugs.

PHYSIOLOGICAL FACTORS
Functions related to body composition, physical performance reaction, and neurophysiology.

BIOLOGICAL RADIATION EFFECTS
Effects of radiation on the human body and other living organisms.
53 BEHAVIORAL SCIENCES
PSYCHOLOGICAL FACTORS
Factors related to psychology, psychiatry, individual and group behavior, crew training and testing.

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT
LIFE SUPPORT SYSTEMS
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
Survival techniques, escape, rescue, and protective clothing and equipment, space suits.
HUMAN ENGINEERING
Design and engineering of devices, equipment, and artificial environments to the requirements of man.
MAN-MACHINE SYSTEMS
Systems in which man and machine are interrelated.
BIOINSTRUMENTATION
Biotelemetry, medical electronics, physiological monitors, biological measurement, and biological data handling.
RELATED TOPIC:
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.

55 PLANETARY BIOLOGY
EXTRATERRESTRIAL LIFE
Exobiology and detection, simulation, and genesis of life outside earth.
RELATED TOPIC:
Sterilization
Spacecraft sterilization, sterilization methods, clean rooms, and contamination control.

MATHEMATICAL AND COMPUTER SCIENCES

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)
APPLIED MATHEMATICS
Mathematical applications in physical, biological and aerospace sciences.
DATA PROCESSING
Automatic source data processing, data handling, conversion and compression.

60 COMPUTER OPERATIONS AND HARDWARE
DIGITAL AND ANALOG COMPUTERS
Computer hardware, structure, peripheral equipment, and applications; hybrid computers.
AIRBORNE OR SPACEBORNE COMPUTERS
Computer design for onboard spacecraft or aircraft use.

61 COMPUTER PROGRAMMING AND SOFTWARE
COMPUTER SOFTWARE
Programming and computer languages, systems analysis, data management.

62 COMPUTER SYSTEMS
RELATED TOPICS:
Computer Software
Programming and computer languages, systems analysis, data management.
Aerospace Management
Management techniques, cost control, production engineering, personnel management.

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.

64 NUMERICAL ANALYSIS
NUMERICAL ANALYSIS
Mathematical models, theoretical studies and applications.

65 STATISTICS AND PROBABILITY
STATISTICS AND PROBABILITY
Statistical techniques and applications, probability and reliability theory, probability equations, and problem solving.

66 SYSTEMS ANALYSIS
RELATED TOPIC:
Computer Software
Programming and computer languages, systems analysis, data management.

67 THEORETICAL MATHEMATICS

PHYSICS

70 PHYSICS (GENERAL)
RELATED TOPICS:
See specific topics on Subject Groups 71-77.

71 ACOUSTICS
ACOUSTICS
Acoustic attenuation, simulation, scattering radiation and vibration; hydroacoustics.
ULTRASONICS
Use in medicine and materials research, absorption properties and effects.

72 ATOMIC AND MOLECULAR PHYSICS
ATOMIC PHYSICS
Atomic theory, collision, beams, energy, reactions, and properties.
MOLECULAR PHYSICS
Molecular theory, energy, structure, collision, beams, properties, molecules, and instrumentation.

73 NUCLEAR AND HIGH-ENERGY PHYSICS
NUCLEAR PHYSICS
Nuclear particles, structure, reactions, and force.
RADIOACTIVITY
Measurement, detection, material, waste, fission products, and radioactive elements.
RELATED TOPIC:
Cosmic Radiation
Primary and secondary cosmic radiation, galactic and stellar radiation.

74 OPTICS
OPTICS
Optical equipment and technology, electron optics, crystal optics, fiber optics, and optical properties.
LIGHT
Light scattering, measurement effects and transmission.

75 PLASMA PHYSICS
PLASMA APPLICATIONS
Plasma arc welding, plasma spraying, plasma power source, plasma jet technology.
PLASMA DYNAMICS
Plasma theory, conductivity, diagnostics, plasma pinch, plasma sheath, plasma waves, and plasma oscillations.
MAGNETOHYDRODYNAMICS
Magnetohydrodynamic theory and applications.
RELATED TOPIC:
Astrophysical Plasmas
Solar, cosmic, and interstellar plasmas, solar atmosphere, and stellar plasma.

76 SOLID-STATE PHYSICS
SOLID STATE DEVICES
Devices using solid state components, diodes, and rectifiers.
SUPERCONDUCTIVITY
Superconductivity, superconducting magnets, superconducting transition temperatures, critical temperatures, and critical field curves of superconducting material.
DIELECTRICS
Dielectric material including dielectric constant of materials, electric losses and ohmic resistance of compounds, permeability and polarization of dielectric substances and media.
EPITAXIAL DEPOSITION
Epitaxial film deposition techniques; electrical properties of epitaxial deposited films and applications.
RELATED TOPICS:
Metal Crystals
Structure, defects, and technology of metal crystals.
Semiconductors and Transistors
Semiconductor and transistor types, devices, materials and applications.
Magnetism
Theory and research, aeromagnetism, ferromagnetism, hydromagnetism, paramagnetism, and thermomagnetism.

77 THERMODYNAMICS AND STATISTICAL PHYSICS
RELATED TOPICS:
Statistics and Probability
Statistical techniques and applications, probability and reliability theory, probability equations, and problem solving.
Molecular Physics
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.

82 DOCUMENTATION AND INFORMATION SCIENCE

INFORMATION TECHNOLOGY
Documentation, information processing and retrieval, and information systems.

83 ECONOMICS AND COST ANALYSIS

RELATED TOPIC:
Aerospace Management
Management techniques, cost control, production engineering, personnel management.

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.

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.

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.

STELLAR ASTRONOMY AND COSMOLOGY
Stellar, galactic astronomy, including radioastronomy; origin and evolution of the universe.

METEORS AND METEORITES
Meteor properties and hazards, micrometeoroids and micrometeorites, comets, interplanetary dust.

90 ASTROPHYSICS

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

ASTROPHYSICAL PLASMAS
Solar, cosmic, and interstellar plasmas, solar atmosphere, and stellar plasma.
91 LUNAR AND PLANETARY EXPLORATION

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

RELATED TOPICS:
Space Probes
Lunar and planetary probes, including Pioneer, Ranger, Mariner, Voyager, and deep space probes.

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

92 SOLAR PHYSICS

RELATED TOPIC:
Solar Astronomy
Solar activity, physics, solar telescopes and observatories.

93 SPACE RADIATION

COSMIC RADIATION
Primary and secondary cosmic radiation, galactic and stellar radiation.

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

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

99 GENERAL

ANNUAL REPORTS, BIOGRAPHIES
AND HISTORIES
<table>
<thead>
<tr>
<th>TOPIC</th>
<th>NUMBER</th>
<th>TOPIC</th>
<th>NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ablation</td>
<td>34-09</td>
<td>Bioengineering</td>
<td>54-03</td>
</tr>
<tr>
<td>Ablative Materials</td>
<td>34-09</td>
<td>Biological Radiation Effects</td>
<td>52-04</td>
</tr>
<tr>
<td>Acoustics</td>
<td>71-01</td>
<td>Biology (General)</td>
<td>51-01</td>
</tr>
<tr>
<td>Adhesives</td>
<td>27-02</td>
<td>Bioluminescence</td>
<td>23-03</td>
</tr>
<tr>
<td>Aerial Photography</td>
<td>35-01</td>
<td>Bionics</td>
<td>63-01</td>
</tr>
<tr>
<td>Aerodynamic Characteristics</td>
<td>02-01</td>
<td>Biotelemetry</td>
<td>32-04</td>
</tr>
<tr>
<td>Aerodynamics, Airfoil</td>
<td>02-03</td>
<td>Bodies, Aerodynamics of</td>
<td>02-01</td>
</tr>
<tr>
<td>Aerodynamics, Wings</td>
<td>02-03</td>
<td>Boundary Layer Flow</td>
<td>34-01</td>
</tr>
<tr>
<td>Aerodynamics of Bodies</td>
<td>02-02</td>
<td>Boundary Layer Mechanics</td>
<td>34-01</td>
</tr>
<tr>
<td>Aerospace Management</td>
<td>81-01</td>
<td>Brazing</td>
<td>37-06</td>
</tr>
<tr>
<td>Aerospace Medicine</td>
<td>52-01</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air Conditioning</td>
<td>34-06</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air Flow</td>
<td>35-06</td>
<td>Calibration</td>
<td>35-03</td>
</tr>
<tr>
<td>Air Piracy</td>
<td>03-06</td>
<td>Cameras</td>
<td>35-01</td>
</tr>
<tr>
<td>Air Traffic Control</td>
<td>03-01</td>
<td>Cartography</td>
<td>43-02</td>
</tr>
<tr>
<td>Airborne Computers</td>
<td>60-02</td>
<td>Cathode Ray Tubes</td>
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