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STS AND CARGO GLOSSARY, ACRONYMS AND ABBREVIATIONS

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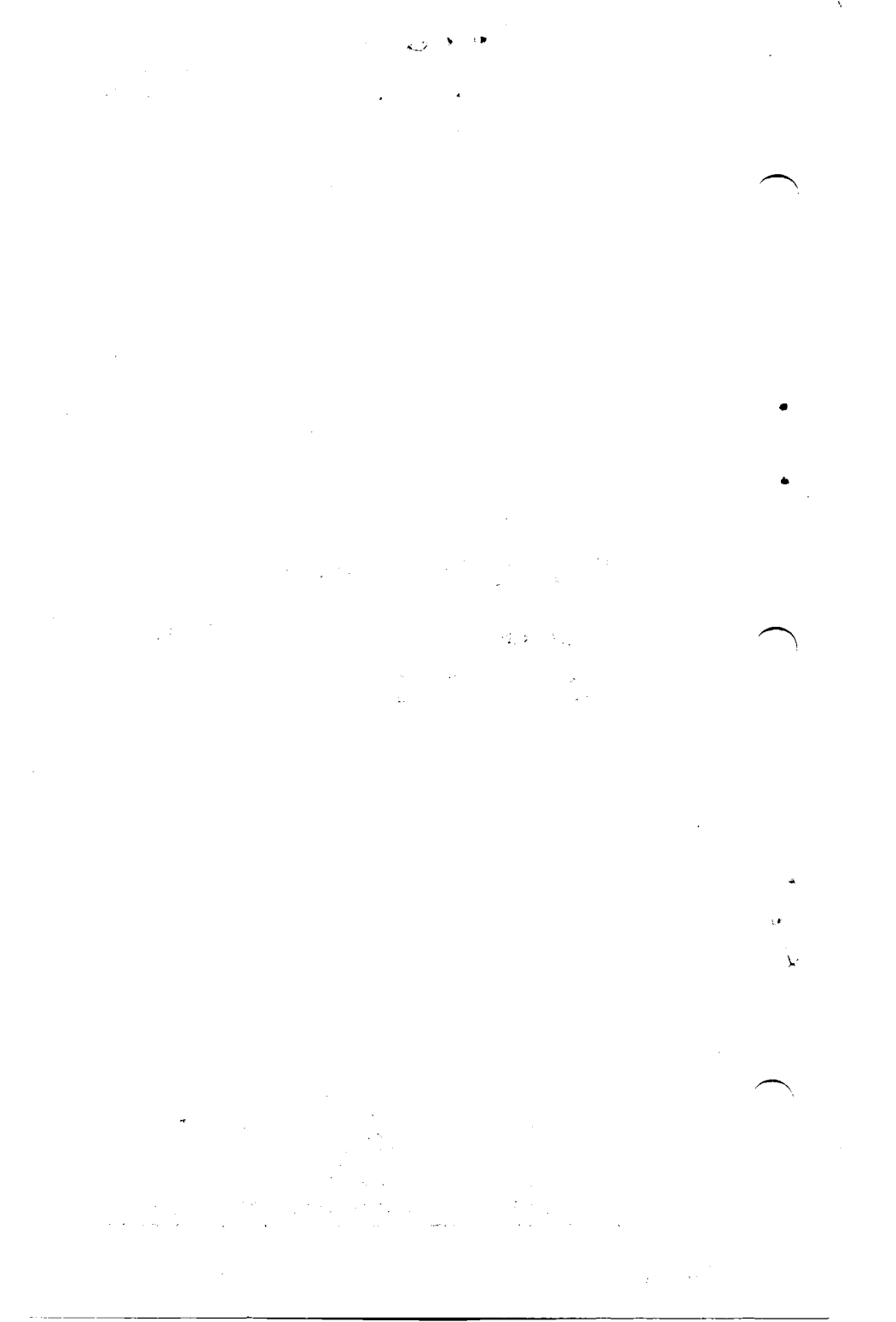
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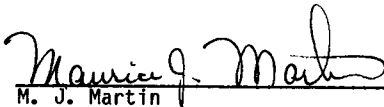
APPROVAL

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STS and Cargo

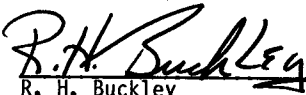
GLOSSARY, ACRONYMS, & ABBREVIATIONS

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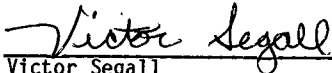


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FOREWORD

This document was prepared to assist those persons connected with the Space Transportation System (STS) and Associated Cargos (see Glossary for definition) who write/interpret/prepare material for publication. It contains a Glossary and a listing of Acronyms and Abbreviations presently in use.

To keep abreast of the state-of-the-art, changes (additions/deletions) will be issued periodically by using an errata sheet.

Should the user wish to make any changes/comments to this document, use the form provided on last page. Telephone changes/comments should be directed to:

M. J. Martin, KSC/SP-OPI-A, (305) 867-3123

Copies of this document are available from the Forms and Publications Warehouse, MW-23 upon submittal of KSC Form 7-11.

We suggest usage of Federal Stock Number (FSN) 7510001876486, a three ring binder, to accommodate this document and errata sheets as needed.

Note 1: All acronyms, chemical symbols, and abbreviations are now written on one level (e.g., N2O4, ZL) rather than super or subscripts.

Note 2: To accommodate computer printouts, all engineering acronyms and abbreviations are now written in uppercase.

SECTION I GLOSSARY

This Section contains a glossary of terms (and definitions) in current usage for the Space Transportation System (STS) and Associated Cargos.

ACCELERATED LAUNCH DATE OPTION

Schedule option involving additional costs that permits a user who has already negotiated a launch date to specify an earlier launch.

ACCEPTANCE TESTS

Tests to determine that a part, component, subsystem, or facility is capable of meeting performance requirements prescribed in purchase specifications, or other documents specifying what constitutes the adequate performance capability for the item.

AFT FLIGHT DECK

That part of the Orbiter cabin on the upper deck where payload controls can be located.

AIRLOCK

A compartment, capable of being depressurized without depressurization of the Orbiter cabin, used to transfer crew members and equipment. A similar compartment in the Spacelab module is used to expose experiments to space.

ANNOUNCEMENT OF FLIGHT OPPORTUNITY

The process by which proposed investigations are solicited for a specific space flight.

ANNOUNCEMENT OF FLIGHT PERIODS

The process by which proposed investigations are solicited for space flight within a designated time period, but without a specific flight number identification. The flight period may include plans for one or more flights.

ASSEMBLY

A number of parts, or subassemblies and/or any combination thereof, joined together to perform a specific function and capable of disassembly. The distinction between an assembly and a subassembly is determined by the individual application. An assembly in one instance may be a subassembly in another, where it forms a portion of an assembly.

ATLAS-CENTAUR CLASS

Payloads weighing approximately 4000 to 4400 pounds (1800 to 2000 kilograms).

ATTACHING PART

An item used to attach assemblies or parts to the equipment, or to each other.

AUTOMATED PAYLOADS

Those payloads which are supported by an unmanned spacecraft capable of operating independently of the Space Transportation System.

AUXILIARY STAGE

A small propulsion unit used with a payload, when required. One or more of these units may be used with a payload, to provide the additional velocity required to place a payload in the desired orbit or trajectory. Also, a propulsion system that is used to provide mid-course trajectory corrections, braking maneuvers, and/or orbital adjustments.

AZIMUTH

True launch heading measured clockwise from 0° north.

BARBECUE MODE

Orbiter in slow roll for thermal conditioning.

BETA ANGLE

Minimum angle between the Earth-Sun line and the plane of the orbit.

BILL OF WORK

A detailed work schedule which lists all Operation & Maintenance (O&M) tasks required to be performed at each work station for a specific vehicle turnaround. It also contains applicable information such as sequence of performance, O&M instruction number, work authorization number, time allocated, manpower, skill level, and the start and completion date.

CAPTURE

The event of the remote manipulator system end effector making contact with and firmly attaching to a payload grappling fixture. A payload is captured at any time it is firmly attached to the remote manipulator system.

CARGO

The total complement of payloads (one or more) on any one flight. It includes everything contained in the Orbiter cargo bay plus other equipment, hardware, and consumables located elsewhere in the Orbiter that are user-unique and are not carried as part of the basic Orbiter payload support.

CARGO BAY

The unpressurized mid part of the Orbiter fuselage behind the cabin aft bulkhead where most payloads are carried. Its maximum usable payload envelope is 15 feet (4.6 meters) in diameter and 60 feet (18.3 meters) long. Hinged doors extend the full length of the bay.

CARGO BAY LINER

Protective soft material used to isolate sensitive payloads from the bay structure.

CARGO INTEGRATION REVIEW

Part of STS planning process that results in a cargo manifest, cost per flight, and billing schedule.

CARGO INTEGRATION TEST EQUIPMENT

Setup that can provide testing of both payload-to-payload and cargo-to-Orbiter interfaces.

CERTIFICATE OF COMPLIANCE

Documentation prepared by the user confirming that a payload has successfully completed interface verification.

CERTIFICATION

Formal documentation that the individual has reached the prescribed skill or knowledge level as cited in a NASA specification, contract specification, or other appropriate documents.

COMMANDER

This crew member has ultimate responsibility for the safety of embarked personnel and has authority throughout the flight to deviate from the flight plan, procedures, and personnel assignments as necessary to preserve crew safety or vehicle integrity. The commander is also responsible for the overall execution of the flight plan in compliance with NASA policy, mission rules, and Mission Control Center directives.

COMMERCIAL PART OR ITEM

A part or item which is manufactured primarily for the commercial rather than the government market and having both commercial and government applications. Commercial parts also include parts which are manufactured in accordance with normal commercial quality controlled production runs which meet or exceed the requirements of government specifications or standards.

COMMON PAYLOAD SUPPORT EQUIPMENT

Spacelab-provided mission-dependent equipment that consists of a top airlock and a viewport/window assembly.

COMPONENT

An assembly or any combination of parts, subassemblies and assemblies, mounted together and normally capable of independent operation in a variety of situations.

CONCURRENT DELIVERY

The delivery of support items concurrently with the end item being provisioned.

CONDITION MONITORED

Those items that have neither limited life nor on-condition maintenance as their primary maintenance process. Condition monitoring is accomplished mainly by in-place instrumentation, sampling, and subsequent trending analysis which provides data to predict an incipient failure.

CONSTRUCTION AWARD

The effective date of direction from the NASA contracting office to the selected contractor authorizing commencement of work. Issue of the Notice of Award by the NASA procurement office completes this milestone.

CONSTRUCTION COMPLETE

Appropriate facility construction is complete and the facility is available for equipment installation. Certification by the site activation office completes this milestone.

CONTRACT AWARD

The effective date of direction from the NASA contracting office to the selected contractor authorizing commencement of work. Issue of the Notice of Award by the NASA procurement office completes this milestone.

CONTRACTOR

The supplier of the end item and associated support items to the Government under the terms of a specific contract.

CORE SEGMENT

Section of the pressurized Spacelab module that houses subsystem equipment and experiments.

CREW ACTIVITY PLANNING

The analysis and development of activities to be performed in flight by the crew, resulting in a time line of these activities and reference data for each flight.

CUSTOMER (or USER)

An organization or individual requiring the services of the Space Transportation System.

DEADBAND

That attitude and rate control region in which no Orbiter reaction control subsystem or vernier correction forces are being generated.

DEDICATED SPACELAB

An extension module devoted to a single discipline which may fly more than once a year for several years, and which may be assigned to a payload development center.

DEEP SPACE NETWORK

Communications network managed by the Jet Propulsion Laboratory for command and control of all planetary flights.

DELTA CLASS

Payloads weighing approximately 2000 to 2500 pounds (900 to 1100 kilograms).

DEPLOYMENT

The process of removing a payload from a stowed or berthed position in the cargo bay and releasing that payload to a position free of the Orbiter.

DESIGN CHANGE

A NASA approved engineering change incorporated into the end item which modifies, adds to, deletes, or supersedes parts in the end item.

DESIGN REVIEWS

Critical Design Review

A meeting chaired by the appropriate Project Manager, or his designated representative, to assure that the completed designs are in consonance with Level II and project specifications.

Preliminary Design Review

A meeting chaired by the appropriate Project Manager, or his designated representative, at which preliminary designs are reviewed with prime contractors to assure compliance with system and project requirements.

30% Design Review

A meeting chaired by the responsible project engineer, or his designated representative, at which preliminary designs are reviewed to assure satisfaction of system and project requirements.

90% Design Review

A meeting chaired by the responsible project engineer, or his designated representative, at which final designs are reviewed to assure compliance with system and project specifications.

DOWNWEIGHT

Landing weight. It refers specifically to payloads and all items required by specific payloads.

DRAWINGS

Graphic data, including drawings as defined in MIL-STD-100A and prepared in accordance with MIL-D-1000, Category D, aperture cards in accordance with MIL-C-9877; graphs, or diagrams, industry standards and industry specifications, on which details are represented with sufficient information to define completely, directly or by reference, the end result in the selection, procurement, and manufacture of the item required.

END ARTICLE/END ITEM

A physical element of the Space Transportation System. It is a functional physical entity related and selected for the purpose of system development, procurement, and logistics.

END ITEM

A final combination of end products, components, parts, or materials which is ready for its intended use; e.g., Orbiter, receiver, amplifier, recorder, ground support equipment, etc.

ESTIMATED ON DOCK (Date)

The date the equipment is forecast to arrive on dock at the center. Initially, this date should coincide with the desired contract delivery date for purchased equipment. Subsequent to the contract award, the date will reflect the vendor's estimate of his ability to deliver.

EUROPEAN SPACE AGENCY (ESA)

An international organization acting on behalf of its member states (Belgium, Denmark, France, Federal Republic of Germany, Italy, the Netherlands, Spain, Sweden, Switzerland, and the United Kingdom). The ESA directs a European industrial team responsible for the development and manufacture of Spacelab.

EXPERIMENT

The system of hardware, software, and procedures for performance of a scientific or applications investigation undertaken to:

1. Discover unknown phenomena
2. Establish the basis of known laws
3. Evaluate applications processes and/or equipment

EXPERIMENT RACKS

Removable and reusable assemblies in the Spacelab module that provide structural mounting and connections to supporting subsystems (power, thermal control, data management, etc.) and experiment equipment.

EXPERIMENT SEGMENT

Section of the pressurized Spacelab module that houses experiments and sensors.

EXPERIMENTER

A user of the Space Transportation System who ordinarily will be an individual whose experiment is a small part of the total payload.

EXTERNAL TANK

Element of the Space Shuttle system that contains liquid propellant for the Orbiter main engines. It is jettisoned prior to orbit insertion.

EXTRAVEHICULAR ACTIVITY

Activities by crew members conducted outside the spacecraft pressure hull or within the cargo bay when the cargo bay doors are open.

EXTRAVEHICULAR MOBILITY UNIT

A self-contained (no umbilicals) life support system and anthropomorphic pressure garment for use by crew members during extravehicular activity. It provides thermal and micrometeoroid protection.

FACILITY NEED DATE

That date when the appropriate facility is required to receive program hardware (Orbiter, SRB, ET) for test and checkout. First operational use of the facility completes this milestone.

FAILURE MODE, EFFECTS AND CRITICALITY ANALYSIS

An analysis to determine an LRU/SRU method and frequency of failure and the resulting effects.

FEDERAL ITEM IDENTIFICATION

A complete description in accordance with FED-STD-5.

FEDERAL SUPPLY CODE FOR MANUFACTURERS

Provides a nonsignificant code assigned to identify manufacturers. Normally used with the Manufacturer's Part Number (see Federal Cataloging Handbooks H4-1 and H4-2 for codes).

FIRST MANNED ORBITAL FLIGHT

Liftoff of the first manned Space Shuttle from the launch pad. Vehicle flight beyond "tower clear" completes this milestone. Subsequent flights use similar definitions.

FLIGHT

That portion of a mission encompassing the period from Launch to Landing, or Launch to Termination, of the active life of a spacecraft. The term Shuttle "Flight" means a single Shuttle round trip (its launch, orbital activity, and return). One flight may deliver more than one payload. More than one flight may be required to accomplish one mission.

FLIGHT CONTROL TEAM

An element of the MCC on duty to provide real-time support for the duration of each STS flight.

FLIGHT DATA FILE

The on-board complement of crew activity plans, procedures, reference material, and test data available to the crew for flight execution. There will normally be an STS flight data file for STS crew activities and also a payload flight data file for payload crew activities.

FLIGHT-DEPENDENT TRAINING

Preparation of a mission or payload specialist(s) for a specific flight, depending on the mission goals. Part of the training involves integrated simulations with the rest of the flight crew and ground teams.

FLIGHT DESIGN

The trajectory, consumables, attitude and pointing, and navigation analysis necessary to support the planning of a flight.

FLIGHT-INDEPENDENT TRAINING

Standard preparation of a mission or payload specialist for any flight.

FLIGHT KIT

Optional hardware (including consumables) to provide additional, special, or extended services to payloads. Kits are packaged in such a way that they can be installed and removed easily.

FLIGHT MANIFEST

The designation of a flight, assignment of the cargo to be flown, and specific implementing instructions for STS operations personnel.

FLIGHT OPERATIONS PLANNING

That part of STS flight planning required to prepare for a given flight. It includes allocation of consumables, analyses and preparation of flight rules, assembly of consoles, handbooks, etc.

FLIGHT PHASES

Prelaunch, launch, in orbit, deorbit, entry, landing, and postlanding.

FLIGHT READINESS FIRING (FRF)

The Shuttle vehicle is stacked on the launch pad, and a Countdown Demonstration Test (CDDT) performed (designed to duplicate to the fullest possible extent an actual launch countdown). Propellant loading occurs in normal launch sequence, culminating a 20-second FRF. Engine shutdown after 20 seconds of sustained firing completes this milestone.

FLIGHT TYPES

Payload deployment and retrieval, on-orbit servicing of satellites, and on-orbit operations with an attached payload, as suited to the purposes of a mission. A single flight may include more than one of these purposes.

FREE FLYER

Any payload that is detached from the Orbiter during the operational phase of that payload, and is capable of independent operations.

FREE-FLYING SYSTEM

Any satellite or payload that is detached from the Orbiter during operational phases and is capable of independent operation.

GENERAL-PURPOSE COMPUTER

One of five computers interconnected to form the Orbiter computer complex for data processing.

GROUND SUPPORT EQUIPMENT (GSE)

Non-flight equipment, implements and devices required for the handling, servicing, inspection, testing, maintenance, alignment, adjustment, checking, repairing and overhauling of an operational end item, a subsystem, or component thereof. This may include equipment required to support another item of GSE as defined herein.

HARDWARE DEVELOPMENT COMPLETE

The date all hardware manufacture/procurement has been completed, and hardware is ready to be delivered under terms of the contract. Notification from the contractor to the responsible office completes this milestone.

IGLOO

A pressurized container for Spacelab pallet subsystems when no module is used.

INCLINATION

The maximum angle between the plane of the orbit and the equatorial plane.

INDENTURE

A method of showing relationships to indicate dependence and an order of dependence. Indenturing provides a top down breakdown of an item into its assemblies, sub-assemblies, components, and parts.

INITIAL DELIVERY

The date of delivery for the first item of equipment to be delivered under terms of the contract. Acceptance of the equipment by the site activation office completes this milestone.

INITIAL OPERATIONAL CAPABILITY

Point in time at which the first operational configured Space Shuttle vehicle is prepared for flight. Successful completion of DDT&E and certification of flight hardware completes this milestone.

INITIAL OUTFITTING/LAY-IN

The positioning of support items at user levels and at intermediate supply and maintenance levels as initial issues in anticipated support of newly deployed end items.

INSTALLATION COMPLETE

That date when the site activation office declares the complete system has been installed at the facility. Certification by the site activation office completes this milestone.

IN-STORAGE MAINTENANCE

The actions performed on a stored item to retain it in a specified condition by providing systematic inspection, detection, and prevention from deterioration.

INSTRUMENT POINTING SUBSYSTEM

Spacelab hardware and software for precision pointing and stability for experiment equipment.

INTEGRATED LOGISTICS

Those interrelated processes which identify and provide the service and resources (hardware and data) required to achieve an economical and timely support of operations. The principal processes are: logistics engineering analyses, maintainability, maintenance, operational maintenance documentation, supply, transportation/packaging, training, and logistics management information.

INTEGRATION

A combination of activities and processes to assemble payload and STS components, subsystems, and system elements into a desired configuration, and to verify compatibility among them.

INTEGRATION LEVELS

Level I

Cargo/Shuttle Integration; integration into the Orbiter of everything that goes on a single Shuttle flight.

Level II

Elements into Cargo Integration; assembly of spacecraft elements and/or free flyers (with or without Tug) into a cargo for a single Shuttle flight.

Level III

Instrument to Supporting System Integration; integration of one or more instrument assemblies with Spacelab elements (extension module and/or pallet) or a free flyer payload.

Level IV

Instrument Assembly Integration; assembly of individual instruments and their unique supporting subsystem into a compatible package of equipment to accomplish specific mission objectives on a given flight.

INTERFACE

The mechanical, electrical, and operational common boundary between two elements of a system.

INTERFACE VERIFICATION

Testing of flight hardware interfaces by an acceptable method that confirms that those interfaces are compatible with the affected elements of the Space Transportation System.

INTERIM RELEASE

Authorization given a contractor to release support items to production or procurement simultaneously with his production requirements for like items prior to submission of a Spare Parts Order.

INERTIAL UPPER STAGE

Solid propulsive upper stage designed to place spacecraft on high Earth orbits or on escape trajectories for planetary missions.

INVITATION FOR BIDS

That point in time when the complete assembly of documents related to a particular contract award will be provided to the prospective bidders by a formal advertisement for the purpose of competitive bidding. Issue of the invitation by the NASA procurement office completes this milestone.

ITEM

Any level of hardware assembly (system, element, subsystem, equipment, component, or part).

K-FACTORS

A series of terms used to derate Meantime Between Failure (MTBF) to a Meantime Between Demand (MTBD) on the supply system. Four examples are:

K_1 Engineering correction based on LRU complexity, greater than 1

K_2 Total failure ratio to relevant failure, greater than 1

K_3 Ratio of operating hours to flying hours

K_4 Ratio of demands on supply system to failures

$$\text{MTBD} = \frac{\text{MTBF}}{K_1 \times K_2 \times K_3 \times K_4}$$

LAUNCH AGREEMENT

An agreement negotiated between NASA and the user that presents in detail all the legal, financial, and NASA-Headquarters-level commitments to provide the STS service at a determined price.

LAUNCH PAD

The area at which the stacked Space Shuttle undergoes final prelaunch checkout and countdown and from which it is launched.

LAUNCH PROCESSING SYSTEM

A high speed digital computer-operated checkout system used to support test, checkout, launch control, and operational management of launch site ground operations.

LAUNCH PROCESSING SYSTEM (LPS) SUPPORT AVAILABLE

Point in time when LPS is ready for use by test personnel, for a given facility. Certification by the site activation office completes this milestone.

LAUNCH-READINESS VERIFICATION

The process of ensuring the continuing operational capability of the Space Shuttle system, upper stages, and Spacelab.

LAUNCH SITE SUPPORT MANAGER

Individual at the launch site center who is the single point of contact with users in arranging payload processing at the launch site.

LAUNCH SITE SUPPORT PLAN

The basic agreement negotiated between NASA and the user detailing how the user's payload will be handled at the launch site.

LEVEL OF REPAIR ANALYSIS

A process for recommending repair levels of LRUs, SRUs, assemblies, and subassemblies which will accrue minimum total support costs within operational and technical constraints over the system design life. It forms the basis for assigning repair level; repair versus discard-at-failure decision; repair parts provisioning; and Source, Maintenance, and Recoverability (SMR) coding, maintenance planning, and documentation.

LINE REPLACEABLE UNIT

Any item whose replacement constitutes the optimum organizational maintenance repair action for a higher indented item (i.e., any assembly which can be removed and replaced as a unit from the system at the operating location).

LOAD FACTOR

The percentage of the Orbiter's total capability (for payload length or weight) required by a shared-flight user. The larger figure is used to derive the charge factor, which is used to calculate the user's cost.

LOGISTICS ENGINEERING ANALYSES

A composite of analysis techniques which are used to identify the necessary logistics resources to support operation and maintenance functions in a timely and economical manner. This includes training, level of repair, spares determination analyses, etc.

LONG DURATION EXPOSURE FACILITY

Free-flying reusable satellite designed primarily for small passive or self-contained active experiments that require prolonged exposure to space. It is launched in the Orbiter cargo bay and deployed and retrieved by the remote manipulator system.

LONG LEADTIME ITEMS

Those items which because of their complexity of design, complicated manufacturing processes, or limited production, may cause production or procurement cycles which would preclude timely or adequate delivery, if not ordered in advance of normal provisioning.

MAINTAINABILITY

The design, installation, and operating characteristics of an item which enables it to be retained in or returned to a specified operational condition by expending resources at an acceptable rate using prescribed procedures.

MAINTENANCE

The actions taken to retain an item in a specified condition by providing systematic inspection, detection, and servicing for the prevention of incipient failure, and the action taken to restore an item to a specified operational condition. This includes fault isolation, item replacement, repair, and verify serviceable.

MAINTENANCE CONCEPT

A description of the planned method for accomplishing maintenance. A thought process which relates the maintenance tasks to be performed to the maintenance levels to support the operation of the system/equipment in the planned operational environment.

MAINTENANCE ENGINEERING ANALYSIS

An analysis of Contract End Item LRU/SRU or equivalent items which define the repair tasks necessary to restore a system to operational condition utilizing the maintenance philosophy, maintainability characteristics and other factors.

MAINTENANCE GROUND EQUIPMENT

The equipment which is used to support the maintenance operations for vehicle, payload, stages, facilities, or other MGE.

MAINTENANCE LEVELS

All maintenance functions performed either directly on the vehicle or in a supporting role categorized in one of the following three categories:

Organizational Level

Maintenance performed on vehicle subsystems and related support equipment in direct support of the turnaround flow. It includes scheduled and unscheduled maintenance actions required to inspect, service, calibrate, replace, repair and modify in place, and reverify (sub)systems and associated components.

Intermediate Level

Maintenance that is performed in direct support of organizational level maintenance and involves disposition, repair, service, modification, calibration, and verification of items removed during organizational maintenance.

Depot Level

Maintenance that is performed by designated maintenance sources; (e.g., manufacturers, USAF air logistics centers, NASA centers, etc.). It normally consists of maintenance that requires MGE, facilities, or skills which are not economically available at the intermediate level; (e.g., repairing, modifying, overhauling, reclaiming, or rebuilding parts, assemblies, subassemblies, components and end items, manufacturing of unavailable parts, and providing technical assistance to the organizational and intermediate levels.)

MAINTENANCE TRAINING

Detailed work oriented instructions on servicing, maintenance, overhaul, and repair of product end items, including support and facilities equipment.

MANAGEMENT CODING

The assignment of codes consisting of letters and/or numerals to support items to record management decisions, such as sources for resupply, prescribed levels of maintenance, item managers, and other management data.

MANNED MANEUVERING UNIT

A propulsive backpack device for extravehicular activity. It uses a low-thrust, dry, cold nitrogen propellant.

MATERIAL SERVICE CENTERS

An activity established adjacent to a facility of work area concentration for the purpose of furnishing supply support and supply support services to all organizations and functional activities in the immediate area(s) which require such service. Each MSC will provide a single point of contact with the KSC supply system, and will receive, stock, and issue material and supplies required by the area(s) served.

MISSION

The performance of a coherent set of investigations or operations in space to achieve program goals. A single mission might require more than one flight, or more than one mission might be accomplished on a single flight.

MISSION CONTROL CENTER

Central area at JSC for control and support of all phases of STS flights.

MISSION-DEPENDENT EQUIPMENT

Spacelab optional equipment that can be added to a flight if needed for the mission involved.

MISSION-INDEPENDENT EQUIPMENT

Spacelab subsystem and support equipment that is carried on every Spacelab flight.

MISSION KIT

Flight kit is the preferred term.

MISSION SPECIALIST

This crew member is responsible for coordination of over-all payload/STS interaction and, during the payload operations phase, directs the allocation of the STS and crew resources to the accomplishment of the combined payload objectives. The mission specialist will have prime responsibility for experiments to which no payload specialist is assigned, and/or will assist the payload specialist when appropriate.

MISSION STATION

Location on the Orbiter aft flight deck from which payload support operations are performed, usually by the mission specialist.

MIXED PAYLOADS

Cargo containing more than one type of payload.

MOBILE LAUNCH PLATFORM

The structure on which the elements of the Space Shuttle are stacked in the Vehicle Assembly Building and are moved to the launch pad.

MOBILITY AID

Handrails or footrails to help crew members move about the spacecraft.

MODIFICATION COMPLETE

That date when existing facilities have been modified. Certification by the site activation office completes this milestone.

MODULE

Pressurized manned laboratory suitable for conducting science, applications, and technology activities.

MODULE EXCHANGE MECHANISM

Part of the Multimission Modular Spacecraft flight support system that is used for servicing.

MULTIMISSION MODULAR SPACECRAFT

Free-flying system built in sections so that it can be adapted to many missions requiring Earth-orbiting remote-sensing spacecraft. It is launched in the Orbiter cargo bay and deployed and retrieved by the remote manipulator system.

MULTIPLE PAYLOADS

More than one separate payload carried in the cargo bay.

MULTIPURPOSE SPACELAB

An extension module involving a variety of disciplines usually for specific flights, and which may require the services of a payload integrator or agent.

MULTIPURPOSE SUPPORT GROUP

Element of the MCC responsible for preflight planning, procedures development, systems expertise, and manpower. During a flight, this group reports systems and trajectory status to the flight control room.

MULTIUSE MISSION SUPPORT EQUIPMENT

Hardware available at the launch site for handling payloads, or common flight hardware used by various payload disciplines.

NADIR

That point on the celestial sphere vertically below the observer, or 180° from the zenith.

NATIONAL STOCK NUMBER

A discrete identifying number assigned to each item of supply within the Federal Catalog System. A data chain consisting of the four-digit Federal Supply Classification, a two digit Country Code and a seven digit Federal Item Identification Number in that order. May also have a two character Dual Cognizance Code, a one character Material Control Code prefix, and a two character Special Material Identification Code suffix.

OFF-LINE

An activity conducted by a payload owner independent of any STS element (e.g., Tug, Spacelab, or Shuttle). Normally, the activity is conducted in a separate facility.

OFF-LINE INTEGRATION

Assembly of payload elements or multiple payloads that does not involve any STS element.

OFF-LINE MAINTENANCE

That maintenance function performed at the intermediate and depot maintenance levels.

ON-CONDITION MAINTENANCE

Those items which will remain in place until an assessment of the item's condition indicates that removal is required. The assessments are made at intervals determined by the item's failure characteristics and may consist of inspections, measurements, tests, or any other means not requiring disassembly or removal of the item.

ON-LINE INTEGRATION

Mating of payloads with the Orbiter, Spacelab, or upper stage. Level I is with the Orbiter. Level II is with the Spacelab, upper stage, etc.

ON-LINE MAINTENANCE

That maintenance function performed at the organizational level.

ON-LINE SPACE TRANSPORTATION SYSTEM

An activity conducted with a payload and one or more STS Elements. This is broken down as follows:

On-Line Shuttle

An activity encompassing a payload, its carrier, and the Shuttle vehicle.

On-Line Spacelab

An activity encompassing a payload and its Spacelab.

On-Line Tug/IUS

An activity involving a payload and the Tug/IUS.

ON-THE-JOB TRAINING

A planned program which augments classroom training through self-study and supervised instruction to provide expanded knowledge and job proficiency while the trainee is actually working in a duty assignment.

OPERATIONS AND MAINTENANCE DOCUMENTATION

OMD includes: engineering drawings and lists, organizational Operations and Maintenance (O&M) manuals including Operations & Maintenance Instructions (OMIs), Standard Repair manuals, Illustrated Parts Breakdown (IPB), Intermediate Maintenance manuals, Nondestructive Inspection (NDI) manuals, Work Unit Code (WUC) manuals, and Time Compliance Technical Instructions (TCTIs).

OPERATIONS AND MAINTENANCE MANUALS

O&M manuals are organized procedural information specifying methods of operating and maintaining flight hardware and support equipment. O&M manuals will be used in the performance of day-to-day operations and maintenance tasks.

OPERATIONS PLANNING

Performing those tasks that must be done to ensure that vehicle systems and ground-based flight control operations support flight objectives.

OPERATIONAL CHECKOUT

That period of time when the Operations and Maintenance (O&M) organization performs crew training, simulations, and procedural familiarization prior to first use on flight hardware. Certification of ground test and checkout, and crew readiness to support the assigned mission prior to receipt of flight hardware completes this period.

OPERATIONAL READINESS DATE

That date when a facility, including all systems and equipment, is operationally ready and is turned over to the user/operator for operational training and systems familiarization prior to first use in support of flight hardware checkout. Certification by the site activation office completes this milestone.

OPERATOR NEED DATE

The date the operator (O&M organization) requires the equipment/GSE to be made available to them, to accomplish any remaining work required prior to first use.

OPPORTUNITY MISSION

A payload revisit option for retrieval or servicing done at NASA's convenience when an Orbiter is near the orbiting payload requiring revisit.

OPTIMUM REPAIR LEVEL

The maintenance level selected to perform specific tasks and functions for a given equipment item. The decision to repair equipment at the indicated maintenance level requires that all authorized maintenance capability (remove, replace, assemble, or test) be provided to that level. This does not prevent some repairs from being accomplished at a different level of maintenance for a different task.

OPTIONAL FLIGHT SYSTEMS

Hardware end items that can be integrated into the Orbiter at additional cost to the user, to launch payloads to geosynchronous transfer orbits (upper stages), to extend basic Orbiter capabilities (flight kits), or to provide a general purpose laboratory in near-Earth orbit (Spacelab).

ORBITAL FLIGHT TEST

One of first six scheduled developmental space flights of the Space Shuttle System.

ORBITAL MANEUVERING SUBSYSTEM

Orbiter engines that provide the thrust to perform orbit insertion, circularization, or transfer, rendezvous, and deorbit.

ORBITER

Manned orbital flight vehicle of the Space Shuttle system.

ORBITER PROCESSING FACILITY

Building near the Vehicle Assembly Building at KSC with two bays in which the Orbiter undergoes postflight inspection, maintenance and premate checkout prior to payload installation. Payloads are also installed horizontally into the Orbiter in this building.

OUTFITTING AWARD

The effective date of direction from NASA contracting officer to the selected contractor authorizing commencement of work. Issue of notice of the award by the procurement office completes this milestone.

OUTFITTING COMPLETE

That date when all systems/equipment has been emplaced. Certification by site activation office completes this milestone.

One piece, or two or more pieces, joined together which are not normally subject to disassembly without destruction or impairment of its designed use.

PALLET

An unpressurized platform, designated for installation in the Orbiter cargo bay, for mounting instruments and equipment requiring direct space exposure.

PALLET TRAIN

More than one pallet rigidly connected to form a single unit.

PAYLOAD

The total complement of specific instruments, space equipment, support hardware, and consumables carried in the Orbiter (but not included as part of the basic Orbiter payload support) to accomplish a discrete activity in space.

PAYLOAD CANISTER

Environmentally controlled transporter for use at the launch site. It is the same size and configuration as the Orbiter cargo bay.

PAYLOAD CARRIER

One of major classes of standard payload carriers certified for use with the Space Shuttle to obtain low-cost payload operations. The payload carriers are identified as habitable modules (Spacelab) and attached but uninhabitable modules (pallets, free-flying systems, satellites, and upper stages).

PAYLOAD CHANGEOUT ROOM

An environmentally controlled room at the launch pad for inserting payloads vertically into the Orbiter cargo bay.

PAYLOAD DISCIPLINE TRAINING

Preparation of a mission or payload specialist for handling a specific experiment. This training is usually the responsibility of the user.

PAYLOAD OPERATIONS CONTROL CENTER

Central area, located at any of three NASA centers, from which payload operations are monitored and controlled. The user, in many instances, will have direct command of a payload from this control center.

PAYLOAD PREPARATION ROOM

Facility at the Vandenberg Air Force Base launch pad for processing and checking payloads.

PAYLOAD SPECIALIST

This crew member, who may or may not be a career astronaut, is responsible for the operation and management of the experiments or other payload elements that are assigned to him or her, and for the achievement of their objectives. The payload specialist will be an expert in experiment design and operation.

PAYLOAD STATION

Location on the Orbiter aft flight deck from which payload-specific operations are performed, usually by the payload or mission specialist.

PAYLOAD SUPPLIER

Owner/operator of any Space Shuttle payload.

PECULIAR PART

Any part which must be produced to order in accordance with a particular drawing and/or specification. Any part requiring flight certification shall be classified peculiar. Also, normally standard parts that must be selectively accepted (to criteria different from the usual standard part requirements) shall be considered peculiar.

PILOT

This crew member is second in command of the flight and assists the commander as required in the conduct of all phases of Orbiter flight.

PHASED PROVISIONING

A refinement to the provisioning process whereby procurement of selected items is phased by time interval into the later stages of production, thereby enhancing the ability of the provisioning activity to select the most favorable mixture of requirements.

PLANNING OPERATIONS MANAGEMENT TEAM

Element of the MCC that performs preflight functions and assists the user in requesting facilities, software, command, telemetry, and flight requirements and POC interfaces.

PRELIMINARY ENGINEERING REPORT - FINAL RELEASE

That date when preliminary engineering is complete and the final documentation has been released. Distribution of the final documentation completes this milestone.

PRICED SPARE PARTS LIST

A priced list of items and quantities of spare parts selected for procurement under the contract.

PRINCIPAL INVESTIGATOR

Research scientist who is in charge of the conduct of an experiment carried by any STS element.

PROCUREMENT/FABRICATION COMPLETE

That date when all procurement and fabrication for a particular facility has been finished. Certified acceptance by the site activation office completes this milestone.

PROCUREMENT METHOD CODE

The contractor will use alpha-suffix codes (6, 7 or 8) contained in MIL-STD-789B to communicate his reason for the assignment of a Contractor Recommended Code (CRC). Procurement Method Codes (1 through 5) will always be assigned by government representatives from the CRC codes furnished by the contractor.

PROGRAM

An activity involving manpower, material, funding, and scheduling which is necessary to achieve desired goals (e.g. Shuttle Program, Solar Astronomy Program, etc.).

PROGRAMMING CHECKLIST

This list is used to provide data governing initial provisioning for end items of Shuttle hardware and related support equipment.

PROVISIONING ACTIVITY

The Provisioning Team of the STS Projects Office, is responsible for the selection and the determination of requirements for the provisioned items.

PROVISIONING PERFORMANCE SCHEDULE

A checklist of entries including schedules in the provisioning process that is used to monitor such events.

PROVISIONING SCREENING

Provisioning Screening, when required by the Provisioning Requirements Statement, will be accomplished in accordance with DOD 4100.38M (Provisioning and other Preprocurement Screening Manual).

PROVISIONING SPECIFICATION

Is the contractual instrument to provide clear and concise instructions which will achieve the objective of providing adequate, timely, and economical support by need dates for systems and end items entering the inventory. It provides NASA with the flexibility in selecting minimum essential data for each specific procurement, and provides the contractor with the detailed guidance to fulfill provisioning requirements. The finalized Provisioning Requirements Statement and the Provisioning Specification shall be appended to the end item contract.

PROVISIONING TECHNICAL DOCUMENTATION

Is the generic term used to reference the various types of Provisioning Lists, decks of Punch Cards Mechanized, or Automatic Data Processing tapes. PTD shall be furnished by contractors to KSC Provisioning Activities for the identification, selection, determination of initial requirements, and cataloging of support items to be procured through the provisioning process. Supplementary Provisioning Technical Documentation is also considered to be a part of the PTD.

QUALITATIVE REQUIREMENTS

Qualitative requirements further amplify the maintenance concept to the designer, by conveying special features which the operator/user wants designed into the hardware. Specialized qualitative requirements to be considered for specification insertion are:

1. Failure Detection
2. Performance Degradation Detection
3. Built-In Test Equipment
4. Adjustments
5. GSE-Integrated/Automated/Manual
6. Self-Test
7. Skill Levels
8. Special Tools
9. Accessibility
10. Interchangeability

QUANTITATIVE REQUIREMENTS

Quantitative requirements provide a firm goal (appointment of time available for maintenance) for the designer to meet his design, and also provide a requirement whose goal can later be demonstrated during the verification period.

This type of quantitative requirement, specified in a maintainability activity, must be responsive to the operational use of the equipment. Times may be specified in manhours, clockhours, or both. Maintenance times may also be broken out and levied for the various elements that comprise the total repair functions such as fault isolate, remove/replace, or checkout. The requirement will also be specified for all applicable levels of maintenance: organizational, intermediate, and depot. A listing of the common types of requirements to be considered are:

1. Maintenance Hours/Launch
2. Maintenance Hours/Operating Hour
3. Mean Time To Repair
4. Maximum Repair Time
5. Scheduled Replacement Intervals
6. Inspection Frequency and Maintenance Hours
7. Servicing Frequency and Maintenance Hours

RACKS

Same as experiment racks.

REACTION CONTROL SUBSYSTEM

Thrusters on the Orbiter that provide attitude control and three-axis translation during orbit insertion, on-orbit, and reentry phases of flight.

READY TO SUPPORT

That date when equipment/facilities are required to support a project/facility milestone. First operational use of the equipment/facilities completes this milestone.

REMOTE MANIPULATOR SYSTEM

Mechanical arm on the cargo bay longeron. It is controlled from the Orbiter aft flight deck to deploy, retrieve, or move payloads.

REORDER POINT

The inventory level, representing procurement lead time and safety level quantitative requirements (on-hand and on-order balances), at which spare item replenishment is to be initiated.

REPAIR PARTS

Those support items that are coded as "not repairable" (i.e., Consumable Items).

REPAIRABLE ITEM

An item in unserviceable condition that can be economically repaired and returned to a serviceable condition.

Note: Repairable status is determined after failure occurs.

REPARABLE ITEM

An item, which because of economic and design characteristics, is determined to be subject to repair when it becomes unserviceable, and then returned for use.

Note: This term reflects the logistics status rather than the physical status of the item. Reparable categorization is made before failure occurs.

REQUEST FOR PROPOSAL (RFP)

That point in time when the necessary documentation is issued to request proposals from prospective bidders prior to negotiation of a contract. Issue of the RFP by procurement office completes this milestone.

RETRIEVAL

The process of utilizing the remote manipulator system and/or other handling aids to return a captured payload to a stowed or berthed position. No payload is considered retrieved until it is fully stowed for safe return or berthed for repair and maintenance tasks.

ROTATING SERVICE STRUCTURE

An environmentally controlled facility at the launch pad used for inserting payloads vertically into the Orbiter cargo bay.

SAFETY TRAINING

Instructions which alert a trainee to those conditions or operations which could be substantially dangerous to the operator, or other hazard that would damage equipment or property.

SCHEDULED DELIVERY

When NASA provides a required delivery schedule with each Spare Parts Order, the contractor shall accept the order and within 30 days notify NASA of his acceptance of the schedule or provide a proposed line item delivery schedule for negotiation. The approved schedule will be incorporated into the contract by supplemental agreement.

SCHEDULED MAINTENANCE

Any repetitive maintenance action deemed necessary to ensure the functional success of equipment including periodic servicing and replacement of time/cycle components.

SHARED EQUIPMENT NEED DATE

The date equipment/GSE to be used at more than one location is required to support site activation activities at the secondary location(s). The need date at the first-use location, will be the Site Activation Need Date for that location.

SHARED FLIGHT

A flight that carries the payloads of more than one user. Reimbursement in this price category is based on the percentage of the Orbiter cargo capacity required plus options (or a pro rata share of those options used).

SHOP REPLACEABLE UNIT

Any item whose replacement constitutes the optimum, intermediate, or depot level of repair action, i.e., a module for an LRU which can be removed at an intermediate or depot repair facility.

SIMULATOR

A heavily computer-dependent training facility that imitates flight hardware responses.

SITE ACTIVATION NEED DATE

The date equipment/GSE is required on-dock to support installation and validation. Uncrating, inspection, and handling time must be allowed in establishing the SAND.

SOLID ROCKET BOOSTERS

An element of the Space Shuttle that consists of two solid rocket motors to augment ascent thrust at launch. They are separated from the Orbiter soon after lift-off and recovered for reuse.

SOURCE, MAINTENANCE, AND RECOVERABILITY CODE

An SMR code shall be recommended by the end item contractor or design agency for each component part. The code will be used to communicate maintenance and supply instructions to the various support/maintenance activities.

SPACELAB

A general-purpose orbiting laboratory for manned and automated activities in near-Earth orbit. It includes both module and pallet sections, which can be used separately or in several combinations.

SPACE SHUTTLE

Orbiter, external tank, and solid rocket boosters.

SPACE TRACKING AND DATA NETWORK

A number of ground-based stations having direct communications with NASA flight vehicles.

SPACE TRANSPORTATION SYSTEM

The system consisting of the Space Shuttle and (1) Spacelab which are provided for the user by NASA, (2) accommodations for qualified Atlas/Centaur and Delta-class spinning solid upper stages (SSUS-A and SSUS-D respectively), which are available to the user from a commercial contractor, and (3) accommodations for inertial upper stages, which are developed by the Department of Defense and made available to the user through NASA.

SPACE TUG

An upper stage installed in the cargo bay of the Orbiter for the Payload Launch, or Recovery and Landing. Developed specifically with the capability for delivery, retrieval, and servicing of payloads in orbits and trajectories beyond the capability of the Shuttle alone. It is intended to be retrievable for refurbishing and multiple reuse.

SPARE PARTS ORDER

A spare parts provisioning list which has been approved by the NASA Contracting Office, and released to the contractor for fabrication or procurement.

SPARES

Those support items that are coded to be repairable (repairable).

SPECIAL TOOLS, TEST EQUIPMENT & SUPPORT EQUIPMENT

Those support items that have single/peculiar application to a specific end item.

SPINNING SOLID UPPER STAGE

Propulsive upper stage designed to deliver spacecraft of the Delta and Atlas-Centaur classes to Earth orbits beyond the capabilities of the Space Shuttle.

STABILITY RATE

The maximum angular rate error during steady state limit cycle operation.

STANDARD PART

Any part or item which is adequately defined by a recognized government wide or industry associated standard drawing and/or specification, and is normally available from commercial, DSA, and/or GSA sources. (e.g., nuts, bolts, washers, screws, pins, keys, grommets, rivets, o-rings, clips, fasteners, clamps, fittings, standard electrical and electronic components, etc.).

STATEMENT OF PRIOR SUBMISSION

A certification by an offerer/contractor that Provisioning Technical Documentation (PTD) previously furnished to the government may satisfy the immediate PTD requirements, with or without changes, to update the PTD to the end item configuration to be procured.

STOWING

The process of placing a payload in a retained position in the cargo bay for ascent or return from orbit.

SPACE TRANSPORTATION SYSTEM ASSOCIATED PAYLOAD

A specific complement of instruments, space equipment, and support hardware carried into space to accomplish a mission (or discrete activity).

SUBASSEMBLY

Two or more parts which form a portion of an assembly or a component replaceable as a whole, but having a part or parts which are individually replaceable. (e.g., telephone dial, mounting board with mounted parts, etc.).

SUPPLEMENTARY PROVISIONING TECHNICAL DOCUMENTATION

This is technical data used to describe parts/equipment and consists of data such as specifications, standards, drawings, photographs, sketches and descriptions, and the necessary assembly and general arrangement of drawings, schematic drawings, schematic diagrams, wiring and cable diagrams, etc., needed to indicate the location and function of the item. As a minimum, SPTD must be capable of providing for:

1. Technical identification of items for maintenance support considerations.
2. Preparation of item identification for the purpose of assigning National Stock Numbers.
3. Review for item entry control.
4. Standardization.
5. Review for potential interchangeability and substitutability.
6. Item management coding.
7. Preparation of stock/issue lists.
8. Initial procurement from the contractor or original manufacturer.

SUPPORT EQUIPMENT

Those support items that are not an integral part of an end item but are required in the operation of the end item.

SUPPORT EQUIPMENT INSTALLATION & CHECKOUT COMPLETE

That date when individual support equipment items have been completely installed and validated at the facility. Certification by the site activation office completes this milestone.

SUPPORT ITEMS

Items subordinate to, or associated with, an end item (e.g., spares, repair parts, tools, test equipment, support equipment, and sundry materials) and required to operate, service, repair or overhaul an end item.

SUPPORT REQUIREMENTS ANALYSIS

An analysis accomplished during the system design to establish logistics support requirements. The analysis is a step-by-step process of predicting operational and maintenance activities, and defining and documenting the required resources.

TILT/SPIN TABLE

Mechanism installed in Orbiter cargo bay that deploys the spinning solid upper stage with its spacecraft.

TRACKING AND DATA RELAY SATELLITE SYSTEM

Two-satellite communication systems providing principal coverage from geosynchronous orbit for all STS flights.

TRAINER

A training device or facility that provides primarily a physical representation of flight hardware. It may have limited computer capabilities.

TRAINING REQUIREMENTS ANALYSIS

An analysis accomplished to determine the skill levels, type, and quantities necessary to support a maintenance philosophy, through maintenance engineering analysis or support requirements analysis.

UNSCHEDULED MAINTENANCE

Any maintenance activity required as a result of the random failures of equipment. It includes the restoration to a serviceable condition of a failed subsystem, end item, replacement package or unit, component, or part.

UPPER STAGE

Spinning solid upper stage or inertial upper stage. Both are designed for launch in the Orbiter cargo bay and have propulsive elements to deliver payloads into orbits and trajectories beyond the capabilities of the Shuttle.

UPWEIGHT

Launch weight. It refers specifically to payloads and all items required by specific payloads.

USER

An organization or individual requiring the services of the Space Transportation System.

UTILIZATION PLANNING

The analysis of approved (funded or committed) payloads with operational resources, leading to a set of firm flight schedules with cargo manifests.

VALIDATION

Verification that the equipment/system meets the operational needs of the Operations & Maintenance (O&M) user, and is part of the turnover process from the design agency to the O&M agency.

VEHICLE ASSEMBLY BUILDING

High-bay building near KSC launch pad in which the Shuttle elements are stacked onto the mobile launch platform. It is also used for vertical storage of the external tanks.

VENDOR ITEM

An item which is used in or attached to the end item produced by the contractor under his contract; and which is procured by the contractor on the open market or from established sources, and for which the contractor is not part of the design activity.

WESTERN LAUNCH OPERATIONS DIVISION

NASA operation at Vandenberg Air Force Base, California.

WORK STATION

A facility or functional area where organizational level operations and maintenance tasks are performed in direct support of a turnaround cycle, or where intermediate and depot level maintenance tasks on Shuttle components (or related GSE) are performed.

WORK UNIT CODE

A six alpha-numeric character indented equipment identification code which uniquely identifies the entire system from top down to Line Replaceable Unit component use level. It functionally identifies the system, subsystem, assembly component and significant repairable part on which maintenance is to be performed.

ZENITH

That point of the celestial sphere vertically overhead. The point 180° from the zenith is called the nadir.

SECTION II
ACRONYMS & ABBREVIATIONS

This Section contains acronyms and abbreviations in current usage for the STS and Associated Cargos.

A

A	Acceleration Alpha Ampere Analog Signal
A&A	Advertise & Award
A&E	Architects and Engineering Architectural and Engineering
A&L	Approach and Landing
A&RC	Application and Resource Control
A&TA	Assembly and Test Area
A/A	Air to Air
A/C	Air Conditioning Aircraft Associate Contractor
A/D	Analog to Digital
A/G	Air to Ground
A/L	Approach/Landing
A/N	Alpha/Numeric
A/P	Airport
A/R	As Required
A/S	Auxiliary Stage
AA	Accelerated Assemblies Accelerometer Assembly Airplane Avionics American Airlines Associate Administrator Accelerometer Assemblies/Assembly
AA/AL	Airplane Avionics/Autoland Automatic Approach/Autoland
AA/SF	Associate Administrator for Space Flight
AA/TDA	Associate Administrator for Tracking & Data Acquisition
AADS	Ascent Air Data System
AAE	Abort Advisory Equipment Aerospace Auxiliary Equipment
AAFE	Advanced Applications Flight Equipment
AAIR	Advanced Atmospheric Sounder and Imaging Radiometer
AAS	Abort Advisory System
AAT	Activation Acceptance Team
AB	Airborne
ABCF	As-Built Configuration File

ABCL	As-Built Configuration List
ABCR	As-Built Configuration Record
ABE	Air-Based Electronics
ABM	Advanced Bill of Materials
ABT	Abort
AC	Alternating Current Comptroller (KSC Directorate)
ACB	Air Cushion Barge
ACC	Automatic Control Console
ACCEL	Acceleration Accelerometer
ACCN	Audit Central Control Network Award Central Control Unit
ACCU	Audio Central Control Unit
ACD	Access Control Document Accuracy Control Document
ACE	Automatic Checkout Equipment
ACES	Acceptance Checkout & Evaluation System Acceptance Control Equipment Section Automatic Checkout Equipment Sequencer
ACI	Age Controlled Item
ACIL	Automatic Controlled Instrument Landing
ACIP	Aerodynamic Coefficient Instrumentation Package
ACL	Allowable Container Load Ascent Closed Loop
ACLC	Adaptive Communication Live Controller
ACM	Acquisition Control Module Activity Classification Number Allocated Configuration Management
ACMS	Automated Configuration Management System
ACN	Ascension Island (STDN)
ACO	Acceptance Checkout Administrative Contracting Officer
ACP	Astronaut Control Panel Audio Control Panel
ACPM	Associate Contractor Program Manager
ACPO	Associate Contractor Project Office
ACPS	Attitude Control Propulsion Subsystem
ACQ	Acquisition
ACR	Actual Cost Report
ACRS	Advisory Committee on Reactor Safeguards
ACS	Attitude Control System (IPS preferred) Automated Control System
ACT	Acquisition, Control of Test (Units) Actuate, Actuator
ACTA	Activate Test Article
ACU	Avionics Cooling Unit
ACUO	Avionics Cooling Unit Operator
ACV	Air Cushion Vehicle
ACWP	Actual Cost for Work Performed
ADA	Azimuth Drive Assembly
ADAP	Adaptive Intercommunication Requirement

ADB	Aerodynamic Data Book
ADC	Air Data Computer
	Analog-to-Digital Computer
ADC	Applicable Document Contractual Record
ADF	Automatic Direction Finder
	Automatic Display Finder
ADI	Attitude Direction Indicator
	Attitude Display Indicator
ADL	Avionics Development Lab (RI-SD)
ADP	Acceptance Data Package
	Air Data Probe
	Automatic Data Processing
ADPA	Air Data Probe Assemblies
ADPE	Automatic Data Processing Equipment
ADS	Air Data System
	Audio Distribution System
ADTA	Air Data Transducer Assembly
AEC	Aft End Cone
	Atomic Energy Commission
AED	Analog Event Distributor
AEDC	Arnold Engineering Development Center
AEM	Acoustical Emission Monitoring
AERO	Aerodynamic
AES	Analog Event System
AETL	Approved Engineering Test Laboratory
AF	Aft Fuselage
	Airframe
	Audio Frequency
AFA	Air Frame Assembly
AFB	Air Force Base
AFC	Aerodynamic Flight Control
	Automatic Flight Control
AFCS	Automatic Flight Control System
AFD	Aft Flight Deck
AFDO	Aft Flight Deck Operator
AFEB	Award Fee Evaluation Board
AFEC	Award Fee Evaluation Committee
AFETR	Air Force Eastern Test Range (preferred ESMC)
AFETRM	Air Force Eastern Test Range Manual
AF	Acceptance & Ferry Flight
AFFTC	Air Force Flight Test Center (EAFB)
AFGWC	Air Force Global Weather Center
AFI	Automatic Fault Isolation
AFLC	Air Force Logistics Command
AFM	Air Force Manual
AFO	Announced Flight Opportunity
AFPD	Authorization For Program Development
AFR	Air Force Regulation
AFRPL	Air Force Rocket Propulsion Laboratory (EAFB)
AFS	Air Force Standard
AFSC	Air Force Systems Command
AFSCF	Air Force Satellite Control Facility

AFSIG	Ascent Flight Systems Integration Group
AFT	Aerodynamic Flight Test Atmospheric Flight Test
AFTA	Acoustic Fatigue Test Article
AFTEC	Air Force Test and Evaluation Center
AFV	Anti-Flood Valve
AG	Artificial Gravity
AGC	Aerojet-General Corporation Automatic Gain Control
AGCU	Air Ground Cooling Unit
AGE	Aerospace Ground Equipment Automatic Ground Equipment
AGI	Agreement Item
AGL	Above Ground Level
AGMC	Aerospace Guidance and Metrology Center
AGO	Santiago, Chile (STDN)
AGOES	Advanced Geosynchronous Observation Environment Satellite
AGOSS	Automated Ground Operations Scheduling System (Also AUTO-GOSS)
AGS	Anti-Gravity Suit
AI	Action Item
AICC	Action Item Control Card
AICS	Action Item Closeout Sheet
AID	Abbreviated Item Description Analog Input Differential Audit Item Disposition
AIDS	Airborne Integration Data System
AIL	Avionics Integration Laboratories
AILS	Automatic Instrument Landing System
AIM	Automated Information Management
AIP	Avionics Integration Plan
AIR	Action Item Report Adaptive Intercommunication Requirement
AIS	Action Item Sheet Airlock Illumination Subassembly Analog-In Single-Ended
AIST	Agency of Industrial Science and Technology
AJ	Assembly Jig
AKM	Apogee Kick Motor
AL	Airlock
AL/EMU	Airlock/Extravehicular Mobility Unit
ALAS	Automatic Landing Autopilot Subsystem
ALC	Air Logistics Center Automatic Light Control
ALDO	Activity Level Dependent Operations
ALE	Airport Landing Equipment Airport Lighting Equipment
ALIO	Activity Level Independent Operations
ALPHA	Angle of Attack (Pitch)
ALS	Advance Logistics System Alternate Landing Site

ALSE	Astronaut Life Support Equipment
ALSS	Airlock Support System (Subsystem)
ALT	Altitude
	Approach & Landing Test
ALTR	Approach & Landing Test Requirement
ALU	Arithmetic Unit
AM	Actuator Mechanism
	Ammeter
	Amplitude Modulation
AMB	Ambient
AMC	Automatic Mixture Control
AMDS	Advanced Missions Docking Subsystem
AMEC	Aft Master Events Controller
AMF	Abort Motor Facility
AMG	Activation Management Group
AMI	Airspeed Mach Indicator
	Alpha/Mach Indicator
AML	Approved Materials List
AMLC	Asynchronous Multiline Controller
AMOOS	Advanced Maneuvering Orbit-to-Orbit Shuttle
AMP	Ampere
AMPS	Atmosphere, Magnetosphere, and Plasmas in Space
AMPT E	Active Magnetosphere Particle Tracer Explorer
AMR	Atlantic Missile Range
AMS	Acoustic Measurement System
	Amplifier Subsystem
AMTD	Automatic Magnetic Tape Dissemination
AMTF	Acoustic Model Test Facility
AN	Army/Navy
ANC	Active Nutation Control
ANG	Angle
ANIK	Canadian Communications Satellite
ANSI	American National Standards Institute
ANT	Antenna
	Antigua (ETR)
AO	Analog Output
	Announcement of Opportunity
AOA	Abort-Once-Around
	Angle Of Attack
AOCRD	Acceptance & Operational Checkout Reqmts. Document
AOD	Analog Output Differential
AOPM	Airline Operations Planning Model
AOS	Acquisition Of Signal
AOT	Avionics Overall Test
AP	Atmospheric & Space Physics
APA	Abort Programmer Assembly
	Allowance for Program Adjustment
APC	Advanced Propulsion Comparison Study
APIF	Automated Process Information File
APIRD	Authorized Procurement Information Requirements
	Description

APIRL	Authorized Procurement Information Requirements List
APLAC	Analysis Program Linear Active Circuits
APM	Assistant Project Manager
APP	Advanced Procurement Package Approach Approved Astrophysics Payloads
APPF	Automated Payload Processing Facility
APPLE	Advanced Propulsion Payload Effects
APPS	Auxiliary Payload Power System
APPX	Appendix
APR	Advanced Parts Release
APS	Aft Propulsion System (Subsystem) Attitude Propulsion Subsystem Automatic Processing System Auxiliary Power Subsystem
APSS	Atmospheric Pressure Supply Subsystem
APT	Astronaut Preference Test
APU	Auxiliary Power Unit Auxiliary Propulsion Unit
AQL	Acceptance Quality Level
AR	Acceptance Readiness Acceptance Review
ARABSAT	Saudi Arabian Communication Satellite
ARAP	Astronaut Rescue Air Pack
ARC	Ames Research Center (Moffett Field, CA)
ARCOMSAT	Arab League Communications Satellite
ARCS	Aft Reaction Control System
ARFDS	Automatic Reentry Flight Dynamics Simulator
ARINC	Aircraft Radio, Incorporated
ARMS	Automated Resources Management System
ARN	Additional Reference Number
ARP	As-Run Procedure
ARPESH	Accurate & Reliable Prototype Earth Sensor Head
ARPF	Army Pulse Radiation Facility
ARS	Air Rescue Science Air Rescue Service Atmospheric Revitalization System Attitude Reference System
AS	Ascent
ASA	Adapter Service Area Aerosurface Servo Amplifier American Standards Association
ASAC	Aerodynamic Surface Assembly & Checkout
ASAP	Aerospace Safety Advisory Panel As Soon As Possible
ASAS	Aerodynamic Stability Augmentation Subsystem
ASC	Aerosurface Control Ascent
ASC/ABT	Ascent/Abort
ASCE	Airlock Signal Conditioning Electronics

ASCII	American Standard Code for Information Interchange
ASCP	Attitude Set Control Panel
ASCS	Atmospheric Storage & Control Section Attitude Stabilization & Control System
ASDTIC	Analogue Signal to Discrete Time Interval Converter
ASE	Advanced Space Engine Airborne Support Equipment Automatic Support Equipment
ASF	Atmospheric Science Facility
ASG	Avionics Subsystem Group
ASI	Airspeed Indicator Amended Shipping Instructions Augmented Spark Igniter Augmented System Ignition
ASK	Amplitude - Shift - Keying
ASKA	Automatic Systems for Kinematic Analysis
ASLU	Antenna Select Logic Unit
ASME	American Society of Mechanical Engineers
ASP	Airborne Science Program
ASPP	Atmospheric & Space Plasma Physics
ASPSL	ASPP Sortie Laboratory
ASQC	American Society for Quality Control
ASR	Air/Sea Rescue Avionics System Review
ASRM	Abort Solid Rocket Motor
ASS	Airlock Support Subsystem
ASSESS	Airborne Science Shuttle Experiments System Simulation
ASSY	Assembly
AST	Astronomy
ASTF	Aeropropulsion System Test Facility
ASTG	Aerospace Test Group
ASTM	American Society for Testing Materials
ASTS	Avionics System Test Specification
AT	Action Time
AT&T	American Telephone & Telegraph
ATA	Abort Timing Assembly Air Transport Association Avionics Test Article
ATC	Air Traffic Control Air Training Command ATE Computer
ATCS	Active Thermal Control Subsystem
ATDB	Aerothermodynamic Data Book
ATE	Airborne Test Equipment Automatic Test Equipment
ATIS	Automatic Terminal Information System
ATL	Advanced Technology Laboratory
ATLAS	Abbreviated Test Language for Avionics Systems
ATM	Apollo Telescope Mount
ATO	Abort-to-Orbit
ATOLL	Acceptance Test Of Launch Language

ATP	Acceptance Test Procedure
	Authority To Proceed
ATR	Air Transport Radio
	Air Transport Rating
	Air Transportation Rack
ATS	Acceptance Test Specification
	Administrative Terminal System
	Analog Tone Signal
	Applications Technology Satellite
	Asynchronous Task Storage
	Automatic Terminal System
ATT	Acceptance Thermal Testing
ATU	Audio Terminal Unit
ATVC	Ascent Thrust Vector Control
AU	Accounting Unit
AUB	Aft Utility Bridge
AUD	Audio
AUST DOMSAT	Australian Communication Satellite
AUTO	Automatic
AUTODIN	Automatic Digital Network
AUTO-GOSS	Automated Ground Operations Scheduling System (Also AGOSS)
AUTOLAND	Automatic Landing
AUX	Auxiliary
AV	Average Value
	Avionics
AVE	Atmospheric Variability Experiment
AVL	Avionics Verification Laboratory
	Address Validity
AVO	Avoid Verbal Orders
AVT	Acceptance Vibration Testing
AVVI	Altimeter Vertical Velocity Indicator
AW	Assembly Workstand
AWCS	Agency-Wide Coding Structure
	Automatic Work Control system
AWG	Activation Working Group
	American Wire Gage
AWL	Automated Wire List
AWS	American Welding Society
	Automated Wiring System
AZ	Azimuth

B

B	Bit
B&P	Budgetary and Planning
B&W	Black & White
B/C	Bench Check
B/L	Baseline
B/O	Burnout
B/SC	Brake Skid Control
BA	Bank Angle
	Breathing Air
BAC	Boeing Aerospace Corporation
	Booster Assembly Contractor
	Buffer Access Card
BAI	Barometric Altitude Indicator
BAIR	Breathing Air
BAN	Budget Allocation Notice
BARB	Ballast Aerating Retrieval Boom
BARS	Baseline Accounting and Reporting System
BASS	Backup Avionics System Software
BATT	Battery
BB	Breadboard
BBC	Before Business Clearance
BC	Battery Charger
BCCT	Break Control Command Transducers
BCE	Bus Control Element
BCH	Bose-Chaudhuri-Hocquenghen (Computer Code)
BCP	Base Condemnation Percent
	Benchmark Control Point
BCR	Bar Chart Report
BCRD	Basic Consolidated Requirements Document
BCU	Bus Control Unit
BCWP	Budget Costs for Work Performed
BCWS	Budget Costs for Work Scheduled
BD	Binary Digit
	Board
BDA	Bermuda (STDN)
BDCF	Baseline Data Collection Facility
BDCR	Baseline Document Change Request
BDD	Baseline Definition Document
BDT	Block Data Transfer
BECO	Booster Engine Cutoff
BER	Bit Error Rate
BESS	Biomedical Experiment Scientific Satellite
BEST	Booster Exhaust Study Test
BET	Best Estimate of Trajectory
BETA ANGLE	Sideslip Angle
BFCS	Backup Flight Control System
BFRP	Boron Fiber Reinforced Plastics
BFS	Backup Flight System
BHD	Bulkhead

BIO	BIO Research Module
BIS	Biocide Injection System
BIT	Built-In Test
BITE	Built-In Test Equipment
BIU	Buffer Interface Unit
	Bus Interface Unit
BKNO3	Boron Potassium Nitrate*
BLDG	Building
BLOW	Booster Lift-Off Weight
BM	Business (Branch) Manager
BMAP	Buffer Map
BMB	Base Maintenance Building
BME	Bench Maintenance Equipment
BMFT	German D-1 Spacelab Payload
BMS	Background Measurement Satellite
BN	Ballistic Number
BO	Breakout Box
BOD	Beneficial Occupancy Date
BOE	Break Of Entry
BOF	Beginning Of File
BOI	Break Of Integrity
BOM	Beginning of Month
	Bill of Materials
BOP	Baseline Operations Plan
BOPACE	Boeing Plastic Analysis Capability for Engines
BOT	Beginning Of Tape
	BOTSWANA (STDN)
BOW	Bill Of Work
BP	Boilerplate
BPD	Baseline Program Documentation
BPI	Bits Per Inch
BPS	Bits Per Second
BRAVO	Business Risk And Value of Operation in Space
BRM	Biological Research Module
BRRS	Banana River Repeater Station
BS	Block Specification
BSDP	Booster Stage Discharge Pressure
BSI	Basic Shipping Instructions
	Boeing Services International, Inc.
BSM	Booster Separation Motors
BSR	Basic System Release
	Bite Status Register
BSRM	Booster Solid Rocket Motor
BTC	Bus Tie Contractor
BTU	British Thermal Unit**
	Bus Terminal Unit
BU	Backup
BUC	Buckhorn, CA (STDN)
BUOU	Backup Optical Unit

*See note 1, page ii

**See note 2, page ii

BUR
BW

Backup Rate
Bandwidth
Bridgewire

C

C	Candle
	Capacitance
	Celcius
	Centigrade
	Complete
	Cycle
	Hundred
C&D	Control & Display
C&DS	Command & Data Simulator
C&M	Control and Monitoring
C&T	Communication and Tracking
C&TSS	Communication and Tracking Subsystem
C&W	Caution and Warning
C-C	Carbon-Carbon
C-TO-C	Computer-To-Computer
C/D	Countdown
C/F	Center Frequency
C/L	Checklist
	Closed Loop
C/O	Changeout
	Checkout
	Cutoff
C/P	Cold Plate
C/S	Counts per Second
C/SCSC	Cost/Schedule Control Systems Criteria
CA	California
	Cone Angle
	Contract Award
	Corrective Action
	Cost Account
CAB	Civil Aeronautics Board
	Cost Audit Board
CACON	Cargo Container
CAD	Computer Aided Design
CADE	Controller/Attitude-Direct Electronics
CADS	Command And Data Simulator
CADSI	Communications And Data Systems Integration
CADU	Control & Display Unit
CAL	Calibrate, Calibration
	Cornell Aeronautical Laboratory
CAM	Carrier Aircraft Modification
	Computer Aided Manufacturing
	Content Addressable Memory
CAMR	Camera
CAN	Certification Analysis Network
CAP	CCMS Application Programs
	Contractor Acquired Property
	Cost Account Package
	Crew Activity Plan

CAR	Certification Approval Request Configuration and Acceptance Review Corrective Action Request
CARID	Customer Acceptance Review Item Disposition
CARR	Customer Acceptance Readiness Review
CAS	Command Augmentation System
CASO	Cancellation Addendum Sales Order
CASP	CDS Application Support Programs
CASS	CITE Augmentation Support System
CAU	Command Acquisition Unit Customer Acquisition Unit
CB	Center of Buoyancy Circuit Breaker
CBE	Connector Bracket, Experiment
CBIL	Common & Bulk Items List
CBP	Connector Bracket Power
CBS	Connector Bracket Signal
CBV	Cabin Bleed Valve
CBX	C-Band Transponder
CC	Channel Controller Chief Counsel (KSC Directorate) Cost Center Crew(s) Certified
CCA	Contract Change Authorization
CCAFS	Cape Canaveral Air Force Station
CCATS	Command, Communication & Telemetry Subsystem
CCB	Change Control Board Configuration Control Board
CCBD	Configuration Control Board Directive
CCC	Central Computer Complex Communications Control Console Complex Control Center Controller Checkout Console
CCD	Charge Coupled Device Checkout Command Decoder
CCDR	Contractor Critical Design Review
CCF	Converter Compressor Facility
CCFF	Cape Canaveral Forecast Facility
CCIR	International Radio Consultative Committee
CCL	Commonality Candidate List
CCM	Controlled Carrier Modulation Crew/Cargo Module
CCME	Contract Change Mass Estimate
CCMS	Checkout, Control & Monitor Subsystem (LPS) Command Control & Monitor System
CCN	Contract Change Negotiation Contract Change Notice
CCOH	Corrosive Contaminants, Oxygen & Humidity

CCP	Commercial Change Proposal Configuration Change Point Configuration Control Panel Contract Change Proposal Cost Control Program
CCR	Contractor Change Request Control Center Rack
CCRA	Cape Canaveral Reference Atmosphere
CCRF	Consolidated Communication Recording Facility
CCS	Central Control Section Command and Communication System Complex Control Set Computer Core Segment
CCT	Computer Compatible Tape
CCTV	Closed Circuit Television
CCU	Camera Control Unit Crewman Communications Umbilical
CCV	Chamber Coolant Valve
CCVA	Chamber Coolant Valve Actuator
CCW	Counterclockwise
CD	Candella (luminous intensity) Center Director (KSC Directorate)
CDA	Center Operations Area Command & Data Acquisition Critical Design Audit
CDBFR	Common Data Buffer
CDC	Confined Detonating Cord Countdown Clock
CCDT	Countdown Demonstration Test
CDF	Cable Distribution Frame Central Data Facility Circuit Design Fabrication Confined Detonating Fuse Cool-Down Facility
CDF&TDS	Circuit Design, Fabrication & Test Data Systems
CDI	Course Deviation Indicator
CDMS	Command and Data Management Subsystem
CDN	CDR Discrepancy Notice
CDNR	CDR Discrepancy Notice Record
CDPIS	Command Data Processing & Instrumentation System
CDQR	Critical Design and Qualification Review
CDR	Cleaning, Decontamination Request Commander Critical Design Review
CDRL	Contract Data Requirements List
CDRR	Contract Documentation Requirements Records
CDS	Central Data Subsystems (LPS) Central Data System Control Data System
CDSC	Communications Distribution & Switching Center

CDT	Central Daylight Time Command Descriptor Table Compressed Data Tape Configuration Data Table Countdown Time
CDW	Command Data Word Computer Data Word
CE	Change Evaluation Civil Engineering Cost Element Current Expendable
CEC	Control Encoder Coupler
CECP	Compatibility Engineering Change Proposal
CEI	Configuration End Item Contract End Item
CEIT	Crew Equipment Integration Test
CEQ	Council on Environmental Quality
CER	Cost Estimating Relationship
CERT	Certification
CES	Crew Escape System
CFE	Contractor Furnished Equipment
CFES	Continuous Flow Electrophoresis System
CFI	Card Format Identifier
CFM	Cubic Feet per Minute Customer Furnished Material
CFP	Conceptual Flight Profile
CFR	Code Federal Regulation
CFRP	Carbon Fiber Reinforced Plastics
CFSTI	Clearinghouse for Scientific & Technical Information
CFY	Company Fiscal Year
CG	Center of Gravity
CGAU	Cabin Gas Analysis Unit
CGC	Command Guidance Computer
CGP	Central Grounding Point
CH	Channel
CHGR	Charger
CHL	Certification Hardware List Channel
CHR	Cooper-Harper Rating
CI	Configuration Inspection Configuration Item
CIAP	Climatic Impact Assessment Program
CIB	Change Impact Board Change Implementation Board
CIC	Control and Information Center
CICC	Cargo Integration Control Center
CID	Computer Interface Device
CIDL	Configuration Item Data List
CIDR	Critical Intermediate Design Review
CIF	Central Instrumentation Facility
CIG	Cable Integrity Group

CIL	Critical Items List
CIM	Computer Input Multiplexer
CIN	Change Identification Number
CIR	Cargo Integration Review
	Configuration Inspection Report
CIRHS	Critical Items and Residual Hazards List
CIS	Central Integration Site
	Change Impact Summary
	Communication Interface System
	Component Identification Sheet
	Contractor's Information Submittal
CISS	Centaur Integrated Support Structure
CIT	Critical Item Tag
CITE	Cargo Integration Test Equipment
CIU	Computer Interface Unit
CIVT	Cargo Interface Verification Test
CKAFS	Cape Kennedy Air Force Station (Changed to CCAFS)
CKRA	Cape Kennedy Reference Atmosphere (Changed to CCRA)
CKS	Checks
CKT	Circuit
CL	Centerline
	Closed Loop Control Logic
CLC	Change Letter Control
CLIP	Combined Laser Instrumentation Package
CLM	Care Logic Module
CLMC	Central Logistics Management Center
CLRB	Cost Limit Review Board
CLS	Contingency Landing Site(s)
CM	Cargo Management
	Configuration Management
	Consumables Management
	Crew Module
CM&S	Communications Maintenance and Storage
CMA	Configuration Management Accounting
CMACS	Central Monitor And Control System
CMAO	Contract Management Assistance Officer
CMAT	Compatible Materials (List)
CMD	Command
CMG	Control Moment Gyro
CMM	Condition Monitored Maintenance
CMO	Configuration Management Office
CMOS	Complimentary Metal Oxide Silicon
CMF	Configuration Management Plan
CMR	Center Materials Representative
CMRB	Contractor Material Review Board
CMRR	Common Mode Rejection Ratio
CMTS	Computerized Maintenance Test System
CMV	Common Mode Voltage
CN	Change Notice
CNRL	Communications & Navigation Research Laboratory
CNSL	Console
CNTL	Control

CNTRL	Controller
CNWDI	Critical Nuclear Weapons Design Information
CO	Cargo Operations (KSC Directorate)
	Change Order
	Contracting Officer
CO2	Carbon Dioxide*
COA	Center Operations Area
COAS	Coarse Optical Alignment Sight
	Crew Optical Alignment Sight
COB	Communications Office Building
COBE	Cosmic Background Explorer
COC	Close-Open-Close
	Certificate of Completion
COD	Change Operations Directive
COE	Corps of Engineers
C of F	Construction of Facilities
	Cost of Facilities
COFI	Checkout & Fault Isolation (On Board)
COFR	Certificate of Flight Readiness
COFW	Certificate of Flight Worthiness
COIM	Checkout Interpreter (Software) Module
COL	Checkout Language
COM	Commonality
COMAS	Combined Orbital Maneuvering & Abort System
COMAT	Compatibility of Materials
COMB	Combustion
COMM	Communications
COMP	Component
	Computer
COMPEN	Compensator
COMPL	Completed
COMPOOL	Common Data Pool
COMPR	Compressor
COMR&DSAT	Communications Research & Development Satellite
COMSEC	Communications Security
COND	Condition, Conditioner
CONF	Conference
CONFIG	Configuration
CONN	Connect, Connector
CONS	Console
CONSTR	Construction
CONT	Continue, Continued, Continuous
CONTR	Control, Controller
CONUS	Continental United States
COP	Contingency Operations Plan
COQ	Certificate of Qualification
COR	Contracting Officer Representative
CORE	Common Operational Research Equipment
COS	Carry-On Oxygen System
	Console Operating System

*See note 1, page ii

COSATI	Committee On Scientific and Tech. Information
COSI	Closeout System Installation
COSTA	Cost Accounting (Code)
CP	Cargo Projects Office (KSC) Center of Pressure Circular Pitch Console Processor Control Panel
CP-DPO	Deployable Payloads Projects Office (KSC)
CP-FEO	Cargo Facilities and GSE Projects Office (KSC)
CP-PCO	Projects Control Office (KSC)
CP-SPO	Spacelab Projects Office (KSC)
CPA	Contingency Planning Aid Critical Path Analysis
CPAF	Cost Plus Award Fee
CPC	Central Planning Center Characteristics Properties Code Computer Program Component
CPCB	Crew Procedures Control Board
CPCEI	Computer Program Contract End Item
CPCI	Computer Program Change Instruction Computer Program Configuration Item
CPCL	Computer Program Control Library
CPCR	Computer Program Change Request
CPD	Crew Procedures Division
CPDDS	Computer Program Detail Design Specification
CPDR	Contractor's Preliminary Design Review
CPDS	Computer Program Design (or Devel.) Specification
CPE	Chief Program Engineer
CPEI	Computer Program End Item
CPES	Crew Procedures Evaluator Simulator
CPF	Cargo Processing Facility Central Processing Facility Cost Per Flight
CPFF	Cost Plus Fixed Fee
CPG	Change Planning Group
CPIF	Cost Plus Incentive Fee
CPM	Computer Program Module Critical Path Method
CPMP	Crew Procedures Management Plan
CPR	Critical Problem Report
CPS	Cycles Per Second
CPSE	Common Payload Support Equipment
CPSS	Cold Plate Support Structure Critical Phase System Software
CPT	Cargo Processing Technician
CPU	Central Processing Unit
CQDR	Critical Qualification Design Review
CR	Certification Requirement Configuration Review Change Request Control Room

CR/DIR	Change Request Directive
CRAS	Cost Reduction Alternative Study
CRB	Change Review Board
CRC	Contractor Recommended Code Cost Reduction Curve
CRD	Change Request Disposition
CRDP	Computer Resources Development Plan
CRES	Corrosion Resistant Steel
CRG	Change Review Group Correspondence Review Group
CRIS	Calibration Recall & Information System
CRISP	Computer Resources Integrated Support Plan
CRM	Chemical Release Module
CRMD	Computer Resources Management Data
CRN	Cable Routing Notation Contract Revision Number
CRP	Configuration Requirements Processing
CRPL	Cosmic Ray Physics Laboratory
CRR	Computer Run Report Critical Requirements Review
CRSI	Ceramic Reusable Surface Insulation
CRT	Cathode-Ray Tube
CRW	Control Read/Write
CRYO	Cryogenic
CS	Checkout Station Change Status Common Set Core Segment Crew Station STS Cargo Operations (KSC Directorate)
CSA	Cyclic Strain Attenuator
CSAM	Crinkled Single Aluminized Mylar
CSAS	Computerized Status Accounting System
CSC	Computer Sciences Corporation Conical Shaped Charge Contingency Support Center, CCAFS Cosecant Computing Amplifier
CSCB	Contractor's Summary Cost Breakdown
CSCSAT	Commercial Synchronous Communication Satellite
CSD	Chemical Systems Division
CSDF	Central Source Data File
CSDL	Charles Stark Draper Laboratory (MIT)
CSE	Common Support Equipment Configuration Switching Equipment
CSF	Central Supply Facility Cost Sensitivity Factor
CSI	Control Servo Input
CSIR	Computer Systems (Hdwe/Sftwe) Integ. Review
CSIU	Core Segment Interface Unit
CSM	Command Service Module Common Support Module
CSP	Computer Support Program

CSPU	Core Segment Processing Unit
CSR	Certification Status Report
	Check Signal Return
	Crew Station Review
CSRP	Computers & Software Review Panel
CSS	Computer Subsystem
	Control Stick Steering
	Core Segment Simulator
CST	Central Standard Time
	Contract Supplemental Tooling
	Crew Station Trainer
CSTA	Crew Software Training Aid
CSTS	Cryogenic Storage and Transfer System
CT	Crawler Transporter
CTA	Controller Thrust Assembly
CTC	Camera, Timing & Control
	Chief Test Conductor
CTI	Critical Transportation Item
CTIS	Crawler Transporter Intercom System
CTL	Canoga Test Laboratory
	Control
CTM	Contract Technical Manager
	Crystalline Transitional Material
CTN	Certification Test Network
CTP	Communications Timing Procedure
CTR	Contract Technical Representative
CTRS	Component Test Requirements Specifications
CTS	Canadian Technology Satellite
	Communications & Tracking System
	Computer Test Set
CTSD	Computer Test Sequences Document
CTU	Central Timing Unit
CUB	Commonality Usage Board
CUC	Computer Usage Control
CUDS	Cumulative Data Statistics
CUE	Common Usage Equipment
CUF	Cross Utilization File
CUIL	Common Usage Item List
CUM	Cumulative
CUP	Commonality Usage Proposal
CV	Coefficient of Variation
	Expendable Vehicles Operations (KSC Directorate)
CVAS	Configuration Verification Accounting System
CVR	Configuration Verification Review
CVT	Concept Verification Testing
CW	Clockwise
	Continuous Wave
CWA	Clean Work Area
CWE	Caution and Warning Electronics
CWEA	Caution and Warning Electronic Assembly
CWFSP	Caution and Warning/Fire Suppression Panel
CWG	Constant Wear Garment

CWSU
CY

Condensate Water Servicing Unit
Calendar Year

D

D	Deliver (Delivery)
	Delta
D&C	Display and Controls (C & D is preferred)
D&CS	Displays & Controls Subsystem
D&O	Description and Operations
D&P	Drain and Purge
D/A	Digital to Analog
D/L	Deorbit/Landing
	Downlink
DA	Double Amplitude
DA&D	Data Acquisition & Distribution
DABS	Discrete Address Beacon System
DAC	Data Acquisition & Control
	Digital to Analytical Conversion
DACBU	Data Acquisition & Control Buffer Unit
DACS	Digital Acquisition & Control System
DADS	Dual Air Density Satellite
DAF	Data Analysis Facility
DAFT	Data Acquisition Frequency Table
DAIS	Data Avionics Information System
DAL	Data Accession List
	Data Aided Loop
DAM	Double Aluminized Mylar
DAP	Digital Autopilot
DAR	Data Aided Receiver
	Deviation Approval Request
	Digital Autopilot Requirements
	Drawing Analysis Record
DARTS	Digital Automated Radar Tracking System
DAS	Data Acquisition System
	Data Analysis Station
	Documentation Accountability Sheet
DASA	Dual Aerosurface Servo Amplifier
DAU	Data Acquisition Unit
DAV	Data Available
DAVL	Data Available-Low
DB	Data Base
	Deadband
	Decibel**
	Design Baseline
	Distribution Box
	Dry Bulb
DBC	Data Bus Coupler
DBE	Data Bus Element
DBFN	Data Base File Number
	Data Bus File Number
DBIA	Data Bus Interface Adapter

**See note 2, page ii

DBIU	Data Bus Interface Unit
DBM	Decibels Referred to 1 Milliwatt**
DBN	Data Bus Network
DBRN	Data Bank Release Notice
DBUR	Data Bank Update Request
DBW	Data Bus Wire
	Decibel Referred to 1 Watt**
DC	Direct Current
DCA	Design Change Authorization
	Distribution Control Assembly
DCAA	Defense Contract Audit Agency
DCAR	Design Corrective Action Report
DCAS	Defense Contract Administration Services
DCC	Data Computation Complex
	Document Control Center
DCKNG	Docking
DCL	Document Change List
DCM	Decom Control Memory
DCMB	Development Configuration Management Board
DCN	Design Change Notice
	Document Change Notice
	Drawing Change Notice
DCNP	Document Change Notice Proposal
DCOP	Displays, Controls & Operation Procedures
DCP	Data Collection Platform
	Depot Condemnation Percent
	Development Cost Plan
DCPEI	DEU Control Program End Item
DCR	Design Certification Review
	Design Concern Report
	Document Change Record (or Review)
DCS	Data Communication System
	Data Control System
	Design Communication System
	Design Criteria Specification
	Digital Command System (Subsystem)
	Display and Control System
	Dual Checkout Station
DCSP	Digital Control Signal Processor
DCU	Digital Computer Unit
	Display & Control Unit
DCV	Direct Current Volts
DD	Data Depository
	Data Display
	Directives Documentation
	Mechanical and Facilities Engineering
	(KSC Directorate)
DD&CS	Dedicated Display & Control Subsystem
DDA	Digital Differential Analyzer
	ICD Departure Authorization

**See note 2, page ii

DDAS	Digital Data Acquisition System
DDI	Discrete Digital Input
DDIS	Data Depository Index System
DDM	Data Display Module
	Data Display Monitoring
	Discrete Data Management
DDP	Design Development Plan
	Digital Data Processing
DDPS	Digital Data Processing System
DDR	Design Development Record
DDS	Data Display System
	Detailed Design Specification
	Documentation Distribution System
DDT&E	Design, Development, Test & Evaluation
DDTF	Dynamic Docking Test Facility
DDTS	Dynamic Docking Test System
DDU	Data Display Unit
	Display Driver Unit
DE	Design Engineering (KSC Directorate)
	Dynamic Explorer
DECL	Direct Energy Conversion Laboratory (JSC)
DECOM	Decommutate, Decommutator
DECS	Civil Engineering Office at Vandenberg
DECU	Data Exchange Control Unit
DED	Dedicate, Dedicated
DEE	Digital Events Evaluator
DEF	Definition
DEG	Degree
DEI	Design Engineering Identification
DEIS	Design Engineering Inspection Simulation
	Design Evaluation Inspection Simulator
DEL	Deliver, Delivery
DELTA-T	Difference in Temperature
DEM0D	Demodulate, Demodulator
DEMUX	Demultiplexer
DEPL	Deploy
DEPT	Department
DER	Drawing Error Report
DES	Data Exchange System
	Design
DESAT	Desaturated
DESC	Descent
DESPOT	Design Performance Optimization
DET	Digital Event Timer
DEU	Display Electronics Unit
DEV	Develop, Development
DEW	Distant Early Warning
DF	Development Flight
	Direction Finding
	Disassembly Facility
	Project Management (KSC Directorate)
DFCS	Digital Flight Control Software (System)

DFI	Development Flight Instrumentation
DFRC	Hugh L. Dryden Flight Research Center
DFS	Directional Finding System
DG	Display Generator
DHA	Design Hazards Analysis
DI	Discrete Input
	Development Integration
DIA	Diameter
DIAG	Diagonal
DIDS	Defense Integrated Data System
DIFF	Differential
DIH	Discrete Input High
DIL	Deliverable Items List
	Discrete Input Low
DIM	Design Interface Meeting
DIP	Designated Inspection Point
	Display Interface Processor
DIR	Document Information Record
DIS	Documentation Index System
DISAP	Disapproved
DISC	Disconnect
	Discrete
DISP	Display
DIST	Distribution
DIT	Dynamic Integrated Test
DIU	Digital Interface Unit
DL	Electronic Engineering (KSC Directorate)
DLAT	Destructive Lot Acceptance Testing
DLSC	Defense Logistics Service Center
DLTR	Data Link Terminal Repeater
	Data Link Transmission Repeater
DM	Development Motor
	Disassembly Manual
	Document, Documentation
DMA	Direct Memory Access
DMC	Direct Maintenance Cost
DMCF	Deservicing, Maintenance & Checkout Facility
DME	Distance Measuring Equipment
DMON	Discrete Monitoring
DMP	Deployable Maintenance Platform
DMS	Data Management System
	Docking Mechanism Subsystem
	Dynamic Motion Simulator
DMSS	Data Management System Simulator (CVT)
DN	Discrepancy Notice
DNA	Does Not Apply
DNLK	Downlink (D/L preferred)
DNLT	Downlist
DNP	Dynamic Nuclear Polarization
DO	Discrete Output
DOA	Department of Agriculture

DOC	Department of Commerce
	Document, Documentation
DOD	Department of Defense
DOD-STP	Department of Defense - Standard Satellite
DODD	Department of Defense Directive
DOE	Department of Energy
DOF	Degree-of-Freedom
	Direction of Flight
DOH	Discrete Output High
DOL	Department of Labor
	Discrete Output Low
DOMSAT	Domestic Satellite
DOP	Diver Operated Plug
DOS	Disk Operating System
DOT	Department of Transportation
	Deployed Operations Team
DOT/CIAP	DOT Climatic Impact Assessment Program
DP	Delayed Procurement
	Deployable Payload
	Design Proof
	Development Phase
	Double Pole
DP&S	Data Processing & Software
DPA	Data Processing Assembly
DPF	Differential Pressure Feedback
DPI	Detail Program Interrelationships
DPM	Dual Port Memory
DPR	Definition Phase Review
DPS	Data Processing Software System
	Data Processing System (Subsystem)
DPT	Design Proof Test
DR	Design Review
	Discrepancy Report
	Dispatch Reliability
	Disposition Record
DRA	Document Release Authorization
DRB	Design Review Board
DRC	Data Reduction Center
DRD	Data Requirement Description
	Document Requirement Description
DRF	Data Request Form
	Digital, Radio Frequency
	Documentation Requisition Form
DRI	Data Rate Indicator
DRL	Data Requirements List
	Document Requirements List
DRM	Design Reference Mission
	Drawing Requirements Manual
DRO	Document Release Order
DRR	Design Requirements Review
DRS	Data Relay Station
	Digital Range Safety

DRSS	Discrepancy Report Squawk Sheet
DRT	Design Reference Timeline
DRUC	Disposition Record Unsatisfactory Condition
DS	Data Storage
DSA	Defense Supply Agency
DSB	Document Status Bulletin
DSC	Data Separator Card
	Dedicated Signal Conditioner
DSCS	Defense Satellite Communication System
DSDU	Data Storage Distribution Unit
DSIF	Deep Space Instrumentation Facility
DSN	Deep Space Network
DSO	Detailed Secondary Objective
DSP	Defense Support Program
DSPL	Display
DSPM	Designated Subsystems Project Manager
DSS	Deep Space Station
	Department Summary Schedule
	Documentation Support Services
DSSM	Dedicated Solar Sortie Mission
DST	Dimensional Special Tooling
	Dynamic Stability Test
DSTF	Delta Spin Test Facility
DT	Drop Tank
	Digital Test Measurement System
DTA	Development Test Article
DTC	Design To Cost
DTCS	Digital Test Command System
DTCW	Data Transfer Command Word
DTI	Development Test Instrumentation
DTMO	Development, Test & Mission Operations
DTMS	Development, Test, & Mission Support (DTMO)
	Digital Test Measurement System
DTO	Detailed Test Objective
DTP	Detail Test Plan
DTRD	Development Test Requirements Document
DTS	Data Transfer System
	Data Transmission System
DU	Display Unit
DUC	Digital Uplink Command
DUM	Dummy
DUPLX(R)	Duplex(er)
DV	Designated Verification
	Designee for Verification
DVM	Digital Voltmeter
DVS	Design Verification Specification
DWG	Drawing
DWI	Data Word In
DWV	Dielectric Withstand Voltage
DY	Deputy Director (KSC Directorate)

E

E	Elevation Angle
	Exempt (from Traceability)
E&D	Engineering and Development
E-E	End-to-End
E/C	Encoder/Coupler
E/L	Entry/Landing
E/O	Engineering/Operations
E/O-IMS	E/O-Information Management System
EA	Each
EAC	Energy Absorbing Capacity
	Estimate At Completion
EAD	Electrically Alterable Device
EAFB	Edwards Air Force Base
EAM	Electrical Accounting Machine
EAR	Engineering Analysis Report
EAS	Equivalent Air Speed
EAT	Environmental Acceptance Test
EB	Electronic Beam
	Emergency Box
EBC	Emulated Buffer Computer
EBW	Electron Beam Welding
	Exploding Bridge Wire
EC	Element Contractor
	Events Coupler
	Essentiality Code
ECA	Epoxy Curing Agent
ECB	Engineering Change Board
	Events Control Buffer
ECC	Engineering Critical Component
ECCB	Engineering Change Control Board
ECD	Estimated Completion Date
ECF	Element Charge Factor
	Equivalency Capability File
ECI	Earth Centered Inertia
ECLS	Environmental Control and Life Support
ECLSS	Environmental Control and Life Support Subsystem
ECN	Engineering Change Notice
ECO	Engine Combustion
	Engine Cutoff
ECOS	Experiment Computer Operating System
ECP	Engineering Change Proposal
	Explicitly Coded Program
ECR	Engineering Change Request
ECS	Engine Control System
	Environmental Control Subsystem
	Environmental Control System
ECU	Environmental Control Unit
ED	Edge Distance
	Engineering Directive

EDA	Electronic Display Assembly
	Elevation Drive Assembly
EDB	Environmental Data Book
EDC	Engineering Design Change
EDCP	Engineering Design Change Proposal
EDDR	Electron Dipole-Dipole Reservoir
EDF	Engineering Data File
EDLN	Engineering Development Logic Network
EDP	Electronic Data Processing
EDR	Engineering Design Review
EDS	Electrical Distribution System
	Emergency Detection System
EDT	Eastern Daylight Time
EDW	Edwards Air Force Base, CA (Deorb OPT site)
EED	Electro Explosive Device
EEE	Electronic, Electrical, Electromechanical
EEL	Electrical Equipment List
EES	Ejection Escape Suit
EET	Entry Elapsed Time
EETB	Electronic Electrical Termination Building
EEVT	Electrophoresis Equipment Verification Test
EFA	Experiment Flight Applications
EFFGRO	Efficient Growth (Computer Program)
EFP	ESA Furnished Property
EFTO	Encrypted For Transmission Only
EGA	Evolved Gas Analysis
EGC	Experiments Ground Computer
EGRET	Energetic Gamma Ray Explorer Telescope
EGSE	Electrical Ground Support Equipment
EGT	Exhaust Gas Temperature
EHC	Electrical Heating Control
EHF	Extremely High Frequency
EHOT	External Hydrogen/Oxygen Tank
EHP	Electrical Horsepower
EHS	Environmental Health Services
EHX	Experiment Dedicated Heat Exchanger
EI	Electromagnetic Interference
	End Item
	Engineering Instruction
	Entry Interface
	Environmental Impact
EIA	Electrical Industries Association
IASN	End Item Assembly Sequence Number
EIC	Experimental Intercom
EIDP	End Item Data Package
EIFA	Element Interface Functional Analysis
EIR	Environmental Impact Report
EIRP	Effective Isotropic Radiated Power
EIS	Electrical Integration System
	End Item Specification
	Environmental Impact Statement
	Extended Instruction Set

EIU	Engine Interface Unit
EIVT	Electrical & Instrumentation Verification Test
	Electrical Interface Verification Test
	Electronic Installation Verification Test
EKG	Electrocardiogram (Record)
	Electrocardiograph (Instrument)
EL	Elastic Limit
EL MECH	Electromechanical
ELACS	Extended Life Attitude Control System
ELDISC	Electrical Disconnect
ELECT	Electrical
ELECTR	Electronics
ELMS	Elastic Loop Mobility System
	Elements
ELS	Earth Landing System (Subsystem)
	Eastern Launch Site
ELSC	Earth Landing Sequence Controller
ELT	Emergency Locator Transmitter
ELV	Expendable Launch Vehicle
EM	Engineering Model
	Exception Monitor
EMA	Electromagnetic Analysis
EMC	Electromagnetic Compatibility
EMCD	Electro-Mechanical Control Diagram
EMCI	Engineering Model Configuration Inspection
EMEC	Electromagnetic Effects Capability
EMF	Electromotive Force
EMG	Surface Electromyograms
EMI	Electromagnetic Interference
EML	Electromagnetic Laboratory
EMN	Engineering Management Network
EMON	Exception Monitoring
EMP	Equipment Mounting Plate
EMR	Engine Mixture Ratio
EMS	Electromagnetic Susceptibility
	Engineering Master Schedule
	Entry Monitor Subsystem
EMT	Electro-Mechanical Test
EMU	Engineering Model Unit
	Extended Memory Unit
	Extravehicular Mobility Unit
ENC	Encode
ENDF	Evaluated Neutron Data File
ENG	Engine
ENGR	Engineer
ENGRG	Engineering
ENT	Entry
ENVIR	Environment, Environmental
EO	Earth Observation
	Earth Orbit
	Engineering Order
	Equal Opportunity Program Office (KSC Directorate)

EOC	End Of Contract
	Engine Order Capability
EOD	Estimated On Dock
	Explosive Ordnance Disposal
EODB	End of Data Block
EOF	End of File
EOHT	External Oxygen & Hydrogen Tanks
EOL	End of Line
EOM	End of Message
	Engineering Operations Manual
	Equations Of Motion
EOMF	End of Minor Frame
EOP	Earth & Ocean Physics
	Emergency Oxygen Pack
	Experiments of Opportunity
EOPAP	Earth & Ocean Physics Application Program
EOR	Earth Orbit Rendezvous
EOS	Earth Observation Satellite
	Earth Orbit Shuttle
	Emergency Oxygen System
EOT	End of Tape
EP	Environmental Protective Plan
EPA	Environmental Protection Agency
EPC	Error Protection Code
	External Power Contractor
EPD	Emergency Procedures Document
EPDB	Experiment Power Distribution Box
EPDC	Electrical Power Distribution & Control
EPDCS	Electrical Power Distribution & Control Subsystem
EPDS	Electrical Power & Distribution Subsystem
EPG	Electrical Power Generator
EPL	Electronic, Electrical & Electromechanical Parts List
EPMS	Engineering Performance Management System
EPO	Element Project Office
EPRN	Emergency Program Release Notice
EPS	Electrical Power Subsystem
	Experimental Power Supply
EPSP	Experiment Power Switching Panel
EPT	Emergency Procedure Trainer
	Ethylene Propylene Terpolymer
EPTU	Events Per Time Unit
EPWG	Environmental Projects Working Group
EQ	Equivalent
EQUIP	Equipment
ER	Explanation Report
ERA	Electrical Replaceable Assembly
ERAP	Earth Resources Aircraft Program
ERB	Engineering Review Board
ERBE	Earth Radiation Budget Experiment
ERBS	Earth Radiation Budget Satellite
ERO	Engineering Release Operations

ERP Effected Radiative Power
 Effective Radiation Power
 Eye Reference Point
 ERPM Engineering Requirements and Procedures Manual
 ERRC Expendability/Recoverability/Repair Capability
 ERS Engineering Release System
 ERSI Elastomeric Reusable Surface Insulation
 ERSIR Earth Resources Shuttle Imaging Radar
 ERTS Earth Resources Technology Satellite
 ES Experiment Segment
 ESA Engineering Supply Area
 Engineering Support Assembly
 European Space Agency
 Explosive Safe Area
 ESCA Electron Spectroscopy for Chemical Analysis
 ESD Emergency Shutdown
 Experiment Systems Division
 ESDAC European Space Data Center (Darmstadt, Germany)
 ESE Electrical Support Equipment
 Electronic Support Equipment
 EVA Support Equipment
 ESF Explosive Safe Facility
 ESI Electrical System Integration
 ESMC Eastern Space and Missile Center (formerly AFETR)
 also ETR
 ESOC European Space Operations Center
 ESOW Engineering Statement of Work
 ESP Experiment Sensing Platform
 ESPS Experiment Segment Pallet Simulator
 ESR Engineering Support Request
 ESRIN European Space Research Institute
 ESRO European Space Research Organization
 ESS Experiment Subsystem Simulator
 ESSA Environmental Sciences Services Administration
 EST Eastern Standard Time
 Estimate(d)
 ESTA Electronic System Test Equipment
 ESTEC European Space Technology Center
 ESTL Electronic Systems Test Laboratory
 ESV Emergency Shutoff Valve
 ESVS Escape Suit Ventilation System
 Escape System Ventilation System
 ET Edge Thickness
 Event Timer
 External Tank
 ETA Estimated Time of Arrival
 Explosive Transfer Assembly
 External Tank Attachment
 ETC Estimate To Completion
 ETCO Equipment Transfer/Change Order
 ETD Estimated Turnover Date
 ETI Elapsed Time Indicator

ETLOW	External Tank Lift-Off Weight
ETP	Equipment Test Plan
ETR	Eastern Test Range (preferred ESMC)
ETROD	Eastern Test Range Operations Directive
ETS	Electrical Test Set
ETSS	External Tank Separation Subsystem
ETVA	External Tank Vent Arm
EU	Electronic Unit
	Experimental Unit
EUROCOMSAT	European Consortium Communications Satellite
EUVE	Extreme Ultraviolet Explorer
EVA	Earned Value Analysis
	Extravehicular Activity
EVAL	Earth Viewing Applications Laboratory
	Evaluate, Evaluation
EVATA	Extravehicular Activity Translational Aid
EVCON	Events Control (Subsystem)
EVCS	Extravehicular Communications System
EVF	Equipment Visibility File
EVM	Earth Viewing Module
EVO	Engineering Verification Order
EVS	Equipment Visibility System
EVSS	Extravehicular Space Suit
EVSU	Extravehicular Space Unit
EWA	Estimated Warehouse Arrival
EWE	Emergency Window Escape
EWR	Engineering Work Request
EX	Executive Management Office (KSC Directorate)
EXC	Experiment Computer
EXO	Experiment Operator (in Spacelab)
EXP	Experiment
EXT	Experiment Terminal (Operator Console on Spacelab)
	Extension
EXTER	External

F

F Fahrenheit
 Farad (SI Unit of Capacitance)
 F&E Facility & Environment
 F/A Failure Analysis
 F/C Fuel Cells
 F/E Full/Empty
 F/O Fuel/Oxidizer Ratio
 FA Failure Analysis
 Final Assembly
 Flight Aft
 Fully Automatic
 FA/COSI Final Assembly and Closeout System Installation
 FAA Federal Aviation Administration
 FAB Fabricate, Fabrication
 FAC Facility
 FACI First Article Configuration Inspection
 FACO Factory Assembly and Checkout
 Final Assembly Checkout
 FACS Finance and Control System
 FACT Flexible Automatic Circuit Tester
 FAF First Aerodynamic Flight
 FAIR Fabrication, Assembly & Inspection Record
 FAL First Approach & Landing (Test)
 FAM Familiarization
 FAMOS Flight Acceleration Monitor Only System
 FAR Failure Analysis Report
 Federal Aviation Regulation
 Final Acceptance Review
 FASCOS Flight Acceleration Safety Cutoff System
 FAT Flight Attitude Table
 FAWG Flight Assignment Working Group
 FAX Facsimile Transmission
 FBC Fluidized-Bed Combustion
 FBCS Fixed Base Crew Station (SMS)
 FBS Firefighters Breathing System
 FBV Field Base Visit
 Fuel Bleed Valve
 FC Fit Check
 Flight Computer
 Flight Control
 Fuel Cell
 FCA Frequency Control Analysis
 Functional Compatibility Analysis
 Functional Configuration Audit
 FCAF Flight Crew Accommodations Facility
 FCAP Flight Control Applications Program
 FCC Flat Conductor Cable
 FCCP Firm Contract Cost Proposal
 FCDB Flight Control Data Bus

FCE	Flight Control Equipment
	Flight Crew Equipment
FCEF	Flight Crew Equipment Facility
FCEI	Facility Contractor End Item
FCF	First Captive Flight
FCFM	Flight Combustion Facility Monitor
FCHL	Flight Control Hydraulics Laboratory
FCI	Functional Configuration Identification
FCL	Freon Coolant Loop
FCO	Functional Checkout
FCOS	Flight Computer Operating System (Orbiter)
	Flight Control Operating System
FCP	Failure Correction Panel
	Firm Cost Proposal
	Flight Correction Proposal
	Fuel Cell Power (Plant)
FCPS	Fuel Cell Power Subsystem
FCR	Final Configuration Review
	Flight Control Room
FCRT	Flight Display CRT
FCS	Federal Communications System
	Flight Control Subsystem
	Flight Crew System
FCSM	Flight Combustion Stability Monitor
FCSS	Fuel Cell Servicing System
FCT	Flight Crew Trainer
FCTB	Flight Crew Training Building
FCW	Format Control Words
FD	Flight Director
	Function Designator
FDA	Fault Detection & Annunciation
FDAI	Flight Director Attitude Indicator
FDB	Fahrenheit Dry Bulb
FDDB	Function Designator Data Base
PDF	Flight Data File
FDI	Fault Detection & Isolation
FDIIR	Fault Detection, Isolation, Identification & Recompensation
FDL	Flight Director Loop
FDM	Frequency Data Multiplexer
	Frequency Division Multiplexing
FDO	Fee Determination Official
FDOR	Flight Design Operations Review
FDR	Final Design Review
FDS	Fluid Distribution System
FDSC	Flight Dynamics Situation Complex
FDX	Full Duplex
FEA	Failure Effects Analysis
FEAT	Final Engineering Acceptance Test
FEC	Field Engineering Change
FED	Flight Events Demonstration
FEDP	Facility and Equipment Design Plan

FEID	Flight Equipment Interface Device
	Functional Engineering Interface Device
FEM	Finite Element Method
FEMCPL	Facilities and Environmental Measurement Comp. Parts List
FEP	Fluorinated Ethylene Propylene Front End Processor Floral Ethel Propane
FERD	Facility & Equipment Requirements Document
FES	Flash Evaporator System Flight Element Set
FESL	Failure Effects Summary List
FEWG	Flight Evaluation Working Group
FF	Flight Forward Flip Flop
FFBD	Functional Flow Block Diagram
FFC	Final Flight Certification
FFD	Functional Flow Diagram
FFM	Free-Flying (Experiment) Module
FFP	Firmed Fixed Price
FFTO	Free-Flying Teleoperator
FHF	First Horizontal Flight
FHP	Fuel High Pressure
FI	Flight Instrumentation Formal Inspection
FIAR	Failure Investigation Action Report
FID	Failure Identification
FIFO	First In-First Out (High Speed Data Buffers)
FIIG	Federal Item Identification Guide
FILE	Future Identification & Location Experiment
FIO	Furnished and Installed by Others
FIS	Facility Interface Sheets
FIT	Fault Isolation Test
FKB	Flight Display Keyboard
FL	Feed Lines Flowline
FL MECH	Fluid Mechanical
FLA	Frustum Location Aid
FLAP	Flight Application Software
FLC	Federal Library Committee
LLK	Frustum Lifting Lug Kit
FLSC	Flexible Linear Shaped Charge
FLT	Flight
FLTSATCOM	Fleet Satellite Communications
FM	Flight Model Frequency Modulation
FMANTS	Flight Manifest
FMC	Food Machinery Corporation
FMCF	First Manned Captive Flight
FMDM	Flex Multiplexer/Demultiplexer
FMEA	Failure Modes & Effects Analysis
FMEC	Forward Master Events Controller

FMECA	Failure Mode, Effects and Criticality Analysis
FML	Final Materials List
FMOF	First Manned Orbital Flight
FMR	Field Modification Request
FMS	Food Management Subsystem
F MSP	Frequency Modulation Signal Processor
FMT	Flight Management Team
FMX	FM Transmitter
FND	Facility Need Date
FNL	Final
FNT	Failure Notification Telex
FO/FS	Fail-Operational/Fail-Safe
FOB	Flight Operations Building Free On Board
FOC	Full Operational Capability
FOD	Flight Operations Directorate (JSC)
FOF	First Operational Flight First Orbital Flight
FOMR	Flight Operations Management Room
FOF	Flight Operations Plan Follow On Production
FOPG	Flight Operations Planning Group
FOPP	Follow On Parts Production
FOPS	Flight Operations Planning Schedule
FOR	Flight Operations Review
FORTRAN	Formula Translation
FOSDIC	Film Optical Sensing Device for Input to Computers
FOSO	Flight Operations Scheduling Officer
FOV	Field of View (Vision) First Orbital Vehicle
FP	Fine Pointing Freezing Point Fuel Pressure Function Path
FPB	Fuel Preburner
FPBOV	Fuel Preburner & Oxidizer Valve
FPE	Functional Program Element
FPHB	Flight Procedures Handbook
FPIF	Fixed Price Incentive Fee
FPL	Full Power Level Full Power Load
FPM	Feet Per Minute Folding Platform Mechanism
FPOV	Fuel Preburner Oxidizer Valve
FPP	Freon Pump Package
FPPR	Fixed Price with Price Revision
FPR	Flight Performance Reserve
FPS	Feet Per Second Forward Power Supply
FPU	Floating Point Unit
FQR	Flight Qualification Recorder
FQT	Formal Qualification Test

FR	Firing Room
FRAGNET	Fragmented Network
FRB	Failure Review Board
FRCS	Forward Reaction Control System (Subsystem)
FRD	Flight Requirements Document
FRE	Flight Related Element
FREQ	Frequency
FRF	Flight Readiness Firing
FRR	Flight Readiness Review
FRRID	Flight Readiness Review Item Description
	Flight Readiness Review Item Disposition
FRSI	Felt Reusable Surface Insulation
FRT	Flight Readiness Test
	Flight Readiness Training
	Frequency Response Test
FS	Fail-Safe
	Federal Specification
	Fire Suppression
	Flight System
	Freon Servicer
FSAA	Flight Simulator for Advanced Aircraft
FSC	Federal Stock Classification
FSCM	Federal Supply Code for Manufacturers
FSD	Full Scale Development
FSF	First Static Firing
FSI	Final Systems Installation
FSIM	Functional Simulator
FSIWG	Flight System Interface Working Group
FSK	Frequency Shift Keyed
FSL	Flight Systems Laboratory
FSLO	First Spacelab Payload
FSLT	First Sea Level Test
FSN	Federal Stock Number
FSO	Functional Supplementary Objective
FSOH	Flight Support Operations Handbook
FSR	Final System Release
FSRR	Flight System Readiness Review
FSRS	Flight System Recording System
FSS	Fixed Service Structure
	Flight Support Structure
	Flight Support System
	Flight Systems Simulator
FSSR	Functional Subsystem Software Requirements
FSTE	Factory Special Test Equipment
FSU	Freon Servicing Unit
FSW	Flight Software
FT	Feet
	Flight Test
	Formal Training
FT&C	Formal Training & Certification
FTA	Fatigue Test Article
	Fault Tree Analysis

FTC	Flight Test Conductor
FTE	Factory Test Equipment
	Forced Test End
FTIS	Flight Test Instrumentation System
FTO	Functional Test Objective
FTOH	Flight Team Operations Handbook
FTP	Function Test Progress
	Functional Test Program
FTR	Flight Test Requirement
FTRD	Flight Test Requirements Document
FTS	Federal Telecommunications System
	Flight Test Station
	Flight Test System
FU	Flight Unit
FUB	Forward Utility Bridge
FUD	First Use Date
FUNCT	Functional
FUO	Follow-Up Output
FUS	Fuselage
FV	Flight Version
	Front View
FVF	First Vertical Flight
FVV	Facility Verification Vehicle
FWB	Fahrenheit Wet Bulb
FWD	Forward
FWG	Facility Working Group
FWW	Food, Water & Waste
FWWM	Food, Water & Waste Management
FWWMS	Food, Water & Waste Management Subsystem
FY	Fiscal Year

G

G Giga (Billion)
 Gravity
 G&A General & Administrative
 G&C Guidance & Control
 G&N Guidance & Navigation
 G-A Ground-to-Air
 G-G Ground-to-Ground
 G-MEM GPC-Memory
 G/E Graphite Epoxy
 G/T Antenna Gain-To-Noise Temperature Ratio
 GA General Assembly
 Gyro Assembly
 GAC Grumman Aerospace Corporation
 GACU Ground Air Conditioning Unit
 Ground Avionics Cooling Unit
 GAIN Graphic Aids for Investigating Networks
 GAM Gamma
 GAO General Accounting Office
 GAP GOAL Automatic Procedure
 GAPL Group Assembly Parts List
 GAS Get-Away Special
 GATT Gate Assisted Turnoff Thyristor
 GBI Grand Bahama Island
 GBL Government Bill of Lading
 GBS Ground Based Software
 GC Gigacycles (1,000 megacycles)
 GCA Ground Controlled Approach
 GCDCS Ground Checkout Display & Control System
 GCHX Ground Cooling Heat Exchanger
 GCI Ground Controlled Interception
 GCIL Ground Control Interface Logic
 GCL Ground Coolant Loop
 GCN Ground Communications Network (A/G World Wide Net)
 Ground Control Network
 GCO Ground Checkout
 GCOS General Computer Operational System
 Ground Computer Operating System
 GCS Guidance Cutoff Signal
 GCTS Gas Component Test Stand
 Ground Communication Tracking System
 GCU General Control Unit
 Generator Control Unit
 Ground Cooling Unit
 Gyro Coupling Unit
 GCV Gaseous Oxygen Control Valve
 GDBS Generalized Data Base System
 GDC General Dynamics Convair
 GDP Generalized Documentation Processor
 GDS Goldstone, California (STDN)

GDY	Goldstone, CA (STDN site, 2nd antenna)
GECALL	GCOS Program Element Name
GEDAC	General Electric Detection & Automatic Correction
GEN	Generator
GENOPAUSE	Geodetic Satellite in Polar Geosynchronous Orbit
GEOSEPS	Geosynchronous Solar Electric Propulsion Stage
	General Summary Edit Program
GERT	Graphical Evaluation & Review Technique
GESYOT	GCOS Program Element Name
GET	Ground Elapsed Time
GETS	Ground Equipment Test Sets
GF&P	Gases, Fluids & Propellants
GFAE	Government Furnished Aircraft Equipment
GFD	Government Furnished Data
GFE	Government Furnished Equipment
GFM	Government Furnished Material
GFP	Government Furnished Property
GFRP	Glass Fiber Reinforced Plastics
	Graphite Fiber Reinforced Plastics
GFS	Government Furnished Software
GFY	Government Fiscal Year
GG	Gas Generator
GH2	Gaseous Hydrogen*
GHA	General Housekeeping Area
	Greenwich Hour Angle
GHE	Gaseous Helium**
GHX	Ground Heat Exchanger
GIDEP	Government-Industry Data Exchange Program
GIM	Generalized Information Management
GIRD	Ground Integration Requirements Document
GITG	Ground Interface Technical Group
GIWG	Ground Interface Working Group
GLAADS	Gun Low Altitude Air Defense System
GLC	Generator Line Contractor
GLL	Galileo
GLOW	Gross Lift-Off Weight
	Ground Lift-Off Weight
GLP	Goal Language Processor
GLRSHLD	Glare Shield
GLS	Ground Launch Sequencer
GLY	Glycol
GMAL	General Electric Macro Assembly Language
GMCL	Ground Measurements Command List
GMIL	Spaceflight Tracking and Data Network (STDN)
	Station
GMMC	Ground Master Measurements List
GMT	Greenwich Mean Time
GN&C	Guidance, Navigation & Control
GN2	Gaseous Nitrogen*

*See note 1, page ii

**See note 2, page ii

GNC	Guidance & Navigation Computer
GNCFTS	GN&C Flight Test Station
GNCIS	GN&C Integration Simulator
GNCTS	GN&C Test Station
GND	Ground
GND C/O	Ground Checkout
GNP	Gross National Product
GO	General Order
GO2	Gaseous Oxygen*
GOAL	Ground Operations Aerospace Language
GOC	Ground Operations Coordinator
GOCA	Ground Operations Control Area
GOES	Geosynchronous Operational Environmental Satellite
GOM	KSC Ground Operations Manager at DFRC or WSMR
GOMMS	Ground Operations and Material Management System
GOMS	Ground Operations Management System
GOP	Ground Operations Panel
GOPG	Ground Operations Planning Group
GOR	Ground Operations Review
GORP	Ground Operations Requirements Plan
	Ground Operations Review Panel
GORS	Ground Observer RF System
GOSS	Ground Operations Support System
GOWG	Ground Operations Working Group
GOX	Gaseous Oxygen (GO2)*
GP	General Publication (KSC)
	General Purpose
GPA	General Purpose Amplifier
GPAS	General Purpose Airborne Simulator
GPBIM	General Purpose Buffer Interface Module
GPC	General Purpose Computer
GPCB	GOAL Program Control Block
GPL	General Purpose Laboratory
	Goal Processing Language
GPME	General Purpose Mission Equipment
GPRN	GOAL Test Procedure Release Notice
GPS	Global Positioning System
	Ground Power Supply
	Ground Processing Simulator
GPSS	General Purpose System Simulator
GPTE	General Purpose Test Equipment
GPU	Ground Power Unit
GPUR	GOAL Test Procedure Update Request
GR	Ground Rule
GRE	Gamma Ray Explorer
GRID	Graphic Retrieval & Information Display
GRO	Gamma Ray Observatory
GRTLS	Glide Return to Launch Site
GS	Ground System
GSA	General Services Administration

*See note 1, page ii

GSAT	General Satellite (STS)
GSC	Ground Support Equipment
GSCU	Ground Service Cooling Unit
GSDL	Ground Software Development Laboratory
GSE	Ground Support Equipment
GSEL	Ground Support Equipment List
GSFC	Goddard Space Flight Center (Greenbelt, MD)
GSI	Government Source Inspection
GSIU	Ground Standard Interface Unit
GSO	Ground Support Office
	Ground Support Operations
	Ground Systems Operations
GSS	Ground Support Software
	Ground Support System
GSSA	Ground Support Systems Activation
GSSC	Ground Support Systems Contractor
GSSI	Ground Support System Integration
GST	Ground System Test
GSTAR	General Satellite (ELV)
GSTDN	Ground Space Flight Tracking and Data Network
GSTF	Ground Systems Test Flow
GSU	Gas Servicer Unit
GSPV	Ground Support Verification Plan
GT	Ground Test
GT&A	Ground Test and Acceptance
GTA	Gas Tungsten Arc
	Ground Test Article
GTCU	Ground Thermal Conditioning Unit
GTI	Grand Turk Island
	Ground Test Instrumentation
GTM	Ground Test Motor
GTS	General Test Support
	GNS Test Station
GUCP	Ground Umbilical Carrier Plate
GUID	Guidance
GUL	GSE Utilization List
GUSB	Guided Unified "S" Band
GVT	Ground Vibration Test
GVTA	Ground Vibration Test Article
GW	Gross Weight
GWA	General Work Area
GWM	Guam (STDN)
GWT	Ground Winds Tower
GYM	Guaymas, Mexico (Remote Site)
GYROA	Gyro A

H

H	Hazardous (Task Classification)
	Henry (SI Unit)
H-CITE	Horizontal-Cargo Integration Test Equipment
H/E	Heat Exchanger
H/L	Hardline
H/S	Heat Shield
H/S IR	Hardware/Software Integration Review
H/T	Heat Treat
H/W	Hardware
H2	Hydrogen*
HA	Hazard Analysis
HAA	High Altitude Abort
HAFB	Holloman Air Force Base
HAK	Horizontal Access Kit
HAL	High-Order Assembly Language
	Houston Aerospace Language
HAL/S	High Order Programming Language for Spacelab Usage
HAS	Hydraulic Actuation System
	Hydrogen Actuation System
	Holddown Alignment Support
HAST	High Altitude Supersonic Target
HAW	Hawaii (STDN)
HB	Handbook
	High Bay
HBT	Heflex Bio-Engineering Test
HBW	Hot Bridge Wire
HC	Head Count
	Hybrid Computer
HCF	High Cycle Fatigue
	HIM Configuration File
HCM	Hard Copy Module
HCMM	Heat Capacity Mapping Mission
HCSI	Hughes Communications Services, Inc.
HCU	Hydraulic Charging Unit
HD	Holddown
HDA	Housekeeping Data Acquisition
HDP	Holddown Post
HDQ	Headquarters
HDR	High Data Rate
HDRM	High Data Rate Multiplexer
HDRR	High Data Rate Recorder
HDS	Hardware Description Sheet
HDWE	Hardware
HE	Heat Exchanger
	Helium**
	High Energy Astrophysics

*See note 1, page ii

**See note 2, page ii

HEAO	High Energy Astronomy Observatory
HEAP	High Energy Aim Point
HEM	Hitchhike Experiment Module
HEO	High Energy Orbit
HEPA	High Efficiency Particle Accumulator
HER	HIM Equipment Rack
HERSCP	Hazardous Exposure Reduction & Safety Criteria Plan
HESS	High Energy Squib Simulator
HF	High Frequency Horizontal Flight
HFA	High Frequency Accelerometer
HFC	Heat Flow & Convection Hydraulic Flight Control
HFCT	Hydraulic Flight Control Test
HFCV	Helium Flow Control Valve
HFMU	High Fidelity Mockup
HFT	Horizontal Flight Test
HFTF	Horizontal Flight Test Facility
HFTS	Horizontal Flight Test Simulator
HFX	High Frequency Transceiver
HG	Mercury**
HGA	High Gain Antenna
HGDS	Hazardous Gas Detection System
HGM	Hot-Gas Manifold
HGR	Hangar
HGR&SPTFAC	Hangar and Support Facility
HGVT	Horizontal Ground Vibration Test
HI	Honeywell, Inc.
HIC	Hickam Air Force Base, Hawaii (Deorb OPT site)
HID	Hardware Interface Device HIM Interface Distributor
HIM	Hardware Interface Module
HIPO	Hierarchical Input-Process Output
HITS	High Rate Multiplexer Input/Output Test System
HL	Hardline Heel Line Hinge Line
HMA	Hypergol Maintenance Area
HMC	Hybrid Microcircuit Hypergolic Maintenance and Checkout
HMCC	Hypergolic Maintenance and Checkout Cell
HMCF	Hypergolic Maintenance and Checkout Facility
HMF	Horizontal Mating Facility Hypergol Maintenance Facility
HMS	History Memory System
HMU	Hardware Mockup
HO	Hydrogen-Oxygen
HOL	High Order Language
HORIZ	Horizontal
HOS	High Order Software

**See note 2, page ii

HOOSC	Huntsville Operations Support Center
HP	Handling Procedure
	High Pressure
HPF	Horizontal Processing Facility (O&C)
HPFTP	High Pressure Fuel Turbopump
HPG	High Pressure Gas
HPGS	High Pressure Gas System
HPI	High Performance Insulation
HPOP	High Pressure Oxidizer Pump
HPOTP	High-Pressure Oxidizer Turbopump
HPPF	Horizontal Payloads Processing Facility
HPS	Hydraulic Power System
HPU	Hydraulic Power Unit
HPV	Helium Precharge Valve
HQ	Headquarters (HDQ is preferred)
HR	Historical Record
	Hour(s)
	Hydrogen Relief
HRAA	High Rate Acquisition Assembly
HRDM	High Rate Demultiplexer
HRDR	High Rate Digital Recorder
HRDS	High Rate Data Station
HRIR	High Resolution Infrared Radiometer
HRL	Horizontal Reference Line
HRM	High Rate Multiplexer
	High Ratio Multiplier
HRPS	Hazard Reduction Precedence Sequence
HRS	Hours
HRSI	High Temperature Reusable Surface Insulation
HRT	High Resolution Tracker
HS	High Speed
HSC	Hardware/Software Coordination
HSCU	Hydraulic Supply and Checkout Unit
HSDL	High Speed Data Line
HSF	Hypergol Servicing Facility
HSG	High Sustained G's Acceleration
HSI	Horizontal Situation Indicator
HSK	Horizontal Sling Kit
HSL	Hardware Simulation Laboratory
HSP	Health Stabilization Program
HT	Heat Transfer
	High Technology
HTC	Hybrid Technology Computer
HTG	Heating
HTLL	High Test Level Language
HTPB	Hydroxyl Terminated Polybutylene
HTR	Heater
HTS	Heat Transfer System
HUD	Head Up Display
HUL	Hardware Utilization List
HV	High Voltage
HVAC	Heating, Ventilating & Air Conditioning

HVSL	Holidays, Vacation & Sick Leave
HW	Hardware
	Hotwire
HW/SW	Hardware/Software
HX	Heat Exchanger
HYD	Hydraulic Subsystem
	Hydraulics
HYGL	Hypergolic
HYPACE	Hybrid Programmable Attitude Control Electronics
HZ	Hertz (cycles per second)

I

I	Iodine
I LOAD	Initialization Load
I&C	Instrumentation and Communication
I&C/O	Installation & Checkout
I&R	Interchangeability & Replaceability
	Interchangeability and Replacement
I&RS	Instrumentation & Range Safety
I&S	Interchangeability and Substitutability
I&T	Integration and Test
I/F	Interface
I/FU	Interface Unit
I/O	Input/Output
I/OB	Input/Output Bus
I/OC	Input/Output Controller
I/OMI	Integration/Operations and Maintenance Instruction
I/OP	Inboard/Outboard Profile
I/OT	Input/Output Test
I/OU	Input/Output Unit
I/T	Intertank
IA	Implementation Agency
	Input Axis
	Inverter Assembly
	Issuing Agency
IAA	International Aerospace Abstracts
IAB	IUS Assembly Building
IAD	Interface Agreement Document
	Interface Analysis Document
IAL	Immediate Action Letter
IAS	Impact Assessment Sheet
	Indicated Airspeed
IASS	Inverter/ATCS Support Structure
IAT	Integrated Avionics Test
IAV	Inventory Adjustment Voucher
IB	Inert Building
	Instruction Book
IBF	Internally Blown Flap
IBM	International Business Machines
IC	Incremental Cost
	Information Center
	Integrated Circuit
	Intercom (Orbiter to Ground via Hardline)
	Intercommunications
	Interim Change
	Internal Combustion
IC/ES	Intercommunication/Emergency Station
ICAR	Investigation & Corrective Action Report
ICB	Interim Change Bulletin
	Interrupt Control Block

ICC	Inter-Computer Channel Inter-Computer Communication Interface Control Chart Interstate Commerce Commission
ICCB	Integrated Change Control Board
ICCP	Interface Coordination and Control Procedure
ICD	Interface Control Document Interface Control Drawing
ICDR	Incremental Critical Design Review
ICDU	Inertial Coupling Data Unit
ICE	Instrument Checkout Equipment Instrument/Communication Equipment
ICIO	Interim Cargo Integration Operations
ICMO	Integrated Configuration Management Office
ICMS	Indirect Cost Management System
ICMT	Intercontract Material Transfer
ICO	Integrated Checkout
ICP	Inventory Control Point
ICR	Instruction Change Request Interface Compatibility Record
ICS	Instrumentation Control System Interpretive Computer Simulator
ICT	Influence Coefficient Tests Interface Control Tooling
ICWG	Interface Control Working Group
ID	Identification Identification Data Inside Diameter Interface Document
IDAS	Integrated Data Acquisition System
IDD	Interface Definition Document
IDE	Initial Design Evaluation
IDI	Instrumentation Data Items
IDMM	Intermediate and Depot Maintenance Manual
IDO	Interdivisional Operations
IDR	Initial Design Review Intermediate Design Review
IDRD	Information Definition Requirements Document
IDS	Interface Data Sheet Item Description Sheet
IDSO	Interdivisional Sales Order
IDTA	Interdivisional Technical Agreement
IDU	Interface Demonstration Unit
IDWA	Interdivisional Work Authorization
IEA	Integrated Electronics Assembly
IECM	Induced Environment Contamination Monitor
IF	Integration Facility Intermediate Frequency
IFA	Interface Functional Analysis
IFASC	Integrated Functions Assessment Steering Committee
IFB	Invitation For Bid
IFM	Inflight Maintenance

IFO	Information Systems Office
IFR	Instrument Flight Rules
IFT	Interface Tool
IFU	Interface Unit
IG	Igloo
	Inertial Guidance
	Instrument Ground
IGA	Inner Gimbal Angle
IGDS	Iodine Generating & Dispensing System
IGM	Interactive Guidance Mode
IGN	Ignition, Ignite
IGOR	Intercept Ground Optical Recorder
IGSE	In-Space Ground Support Equipment
IHTV	Interim Hypersonics Test Vehicle
IHX	Interloop Heat Exchanger
II	Implementing Instructions
IIS	Inspection Item Sheet
IITCS	Igloo Internal Thermal Control Section
ILC	Initial Launch Capability
ILP	Integrated Logistics Panel
ILS	Instrument Landing System
	Integrated Logistics Support
	Integrated Logistics System
ILS/LAR	Integrated Logistics System and Logistics Assessment Review
ILSP	Integrated Logistics Support Plan
ILSSE	Integrated Life Science Shuttle Experiments
IMCP	Integrated Monitor and Control Panel
IMDB	Integrated Maintenance Data Base
IMF	Inventory Master File
IML	Inside Mold Line
IMPL	Implement
IMS	Inventory Management System
	Information Management System
IMU	Inertial Measurement Unit
IN.	Inch (Inches)
INBD	Inboard
INC	Installation Notice Card
	Installation Notification Certificate
INCL	Include
INCR	Increase
	Increment
IND	Indicator
	Industrial
INFT	Informal Training
INIT	Initiate
INRTL	Inertial
INS	Inertial Navigation System
INSAT	Indian National Satellite
INSP	Inspect, Inspection
INSRP	Inter-Agency Network Safety Review Panel
INSTL	Install, Installation

INSTL&C/O	Installation & Checkout
INSTR	Instrument, Instrumentation
INSTRUM	Instrumentation Subsystem
INT	Integrated Test
INTASAT	Instituto Nacional De Technica Aeroespacial Satellite
INTC/O	Integrated Checkout
INTEGR	Integrate, Integration
INTELSAT	International Telecommunications Satellite Organization
INTF	Interface
INTG	Integration
INTRLVR	Interleaver
INTV	Interim Hypersonics Test Article
INV	Inverter
INV MGT	Inventory Management
IOA	Input/Output Adapter
IOB	Input-Output Buffer (if Bus ≠) Input/Output Buffer
IOC	Indirect Operating Costs Initial Operational Capability Input/Output Controller
IOCU	Input/Output Control Unit
IOM	Input/Output Module
IOP	Input/Output Processor Integrated Operation Plan
IOPL	Integrated Open Problem List
IOS	Indian Ocean Ship (STDN) Input/Output Supervision Instructor Operator Station
IOSC	Integrated Operations Support Center
IOU	Input/Output Unit
IP	Identification of Position Igloo Pallet Intermediate Pallet Intermediate Pressure
IPACS	Integrated Power & Attitude Control System
IPAD	Integrated Program for Aerospace Vehicle Design
IPB	Illuminated Push Button Illustrated Parts Breakdown
IPC	Intermittent Positive Control
IPCL	Instrumentation Program & Component List
IPD	Information Processing Division
IPDR	Incremental Preliminary Design Review
IPE	Industrial Plant Equipment
IPF	IUS Processing Facility
IPL	Indentured Parts List Initial Program Load
IPR	Interim Problem Report

IPS	Inches Per Second
	Instrument Pointing System
	Instrumentation Power Subsystem
	Interface Problem Sheets
	International Pipe Standard
	Inverter Power Supply
IPSL	Interface Problem Status Log
IPT	In Plant Transporter
	International Pipe Thread
IPTCS	Igloo Passive Thermal Control Section
IR	Infrared
	Inside Radius
IRAN	Inspection & Repairs As Necessary
IRANSAT	Iranian Government Communications Satellite (replaces IRAN)
IRAR	Internal Variable
IRD	Information Requirements Document
IRG	Inertial Rate Gyro
IRIG	Inertial Rate Integrating Gyro
	Inter-Range Instrumentation Group
IRIS	Italian Research Interim Stage
IRL	Interface Requirement List
IRME	Initiator Resistance Measuring Equipment
IRN	Interface Revision Notice
IRR	Inspection Rejection Report
	Integral Rocket Ramjet
IRTCM	Integrated Real-Time Contamination Monitor
IRU	Inertial Reference Unit
IRV	Isotope Reentry Vehicle
IS	Installation Support
ISI	Initial Systems Installation
ISIL	Interim Support Items List
ISL	Inertial Systems Laboratory
ISLM	Integration Shop/Lab Manager
ISO	International Standardization Organizations
ISP	Initial Specific Impulse
	Integrated Support Plan
ISPG	Institutional Support Planning Group
ISPM	International Solar Polar Mission
ISR	Initial System Release
ISS	Installation Support Services
	Instruction Summary Sheet
	Integrated System Schematic
ISSL	Initial Spares Support List
IST	Integrated Systems Test
ISTA	Intertank Structural Test Assembly
ISTB	Integrated Subsystem Test Bed
ISTF	Integrated System Test Flow
ISU	International System of Units
IT	Installation Test

ITAP	Integrated Technical Assessment Panel
ITC	Igloo Thermal Control
ITE	Instrumentation Test Equipment
	Intersite Transportation Equipment
ITI	Inspection and Test Instruction
ITL	Integrate, Transfer, and Launch
ITO	Integration and Test Order
ITS	Instrumentation Telemetry Station
IU	Instrument Unit
	Interface Unit
IUCS	Instrumentation Update Command System
	Instrumentation Unit Update Command System
IUE	International Ultraviolet Explorer
IUS	Inertial Upper Stage (was Interim Upper Stage)
	Interim Use Sheet
IVA	Intravehicular Activity
IVAK	Igloo Vertical Access Kit
IVAR	Internal Variable
IVBC	Integrated Vehicle Baseline Configuration
IVE	Interface Verification Equipment
IWBS	Indirect Work Breakdown Structure
IWG	Interface Working Group

J

J Joule (SI Unit)
 J/M Jettison Motor
 JAN Joint Army-Navy
 JAS Journal of Aerospace Science
 JB Junction Box
 JCL Job Control Language
 JCP Joint Power Conditions
 JCT Junction
 JETS Joint Electronics Type (Designation) System
 JIR Job Improvement Request
 JO Job Order
 JOC Joint Operations Center
 JOD Joint Occupancy Date
 JOIP Joint Operations Interface Procedure
 JOP Joint Operating Procedure
 Jupiter Orbiter Probe-Galileo
 JOR Job Order Request
 JP Jet Propellant
 Jet Propulsion
 JPC Joint Power Condition
 JPIC Joint Program Integration Committee
 JPL Jet Propulsion Laboratory
 JPP Joint Program Plan
 JRB Joint Review Board
 JSC Lyndon B. Johnson Space Center (Formerly MSC)
 JSLWG Joint Spacelab Working Group
 JST Joint Systems Test
 JTG Joint Training Group
 JURG Joint Users Requirements Group

K

K Kelvin
 Kilo (1000)
 One Thousand
 K&H Memory Time Value
 K-APM KSC Automated Payloads Plan/Requirements
 K-APN KSC Automated Payloads Notice
 K-APPS KSC Automated Payloads Project Specification
 K-CITEM KSC CITE Plan/Requirement
 K-DODM KSC DOD Plan/Requirement
 K-DPM KSC DOD Payloads Plan/Requirement
 K-DPN KSC DOD Payloads Notice
 K-DPPS KSC DOD Payloads Project Specification
 K-IUSM KSC IUS Plan/Requirement
 K-IUSN KSC IUS Notice
 K-IUSPS KSC IUS Project Specification
 K-MMSEM KSC MMSE Plan/Requirement
 K-MMSEN KSC MMSE Notice
 K-MMSEPS KSC MMSE Project Specification
 K-SLM KSC Spacelab Plan/Requirement
 K-SLN KSC Spacelab Notice
 K-SLPS KSC Spacelab Project Specification
 K-SM KSC Shuttle Management Document
 K-SPN KSC Shuttle Project Notice
 K-SPS KSC Shuttle Project Specification
 K-SSS KSC Shuttle Project Station Set Specification
 K-STSM KSC STS Plan/Requirement
 K-STSN KSC STS Notice
 K-STSPS KSC STS Project Specification
 K/S Kick Stage
 KAD Kadana AB, Ryuku Islands (Deorb OPT site)
 KAPL KSC Approved Parts List
 KAU Kilo Accounting Unit
 KB Keyboard
 Kilobit
 KBAC Kennedy Booster Assembly Contractor
 KBPS Kilobits per Second
 KBU Keyboard Unit
 KCAS Knots Calibrated Airspeed
 KCS Keyboard Configuration Studies
 KDMS Kennedy Data Management System
 KDN Kinetically Designed Nozzle
 KDT Keyboard and Display Test
 KDU Keyboard and Display Unit
 KG Kilogram**
 KGAL/MIN Kilogallons per Minute
 KHB KSC Handbook
 KHZ Kilohertz**

**See note 2, page ii

KIAS	Knots Indicated Airspeed
KIS	Kitting Instruction Sheet
KM	Kilometers**
KMI	KSC Management Instruction
KMS	K-words x millions of seconds
KN	Kitting Notice
	KSC Notice
KNO	Kano, Nigeria (Remote Site)
KOI	KSC Operation Instruction
KOM	KSC Organizational Manual
KOPS	Thousand of Operations Per Second
KPD	KSC Program Directive
KPRD	KSC Program Requirements Document
KPS	Kilometers Per Second
KSA	Ku-Band Single Access
KSC	John F. Kennedy Space Center
KSCAP	Kennedy Space Center Area Permit
KSSS	KSC Station Set Specification
KUSP	Ku-Band Single Processor
KV	Kilovolt**
KVA	Kilovoltampere**
KW	Kilowatt
KYBD	Keyboard

**See note 2, page ii

L

L Launch
 Left
 Length
 Level
 Lumen
 L&C Laboratory and Checkout
 L&D Landing & Deceleration
 L&L Launch & Landing
 L&S Logistics & Support
 L&T Laboratory & Test
 L/D Length-to-Diameter
 Lift-to-Drag (Ratio)
 L/O Lift-Off
 LA Lanthanum
 Launch Abort
 Launch Aft
 Launch Area
 Launch Azimuth
 Lightning Arrester
 LAAD Los Angeles Aircraft Division (Rockwell)
 LACB Landing Aids Control Building (SLF at KSC)
 LAGS Launch Abort Guide Simulation
 LAIR Liquid Air**
 LAPS Left Aft Propulsion System
 Left Aft Propulsion Subsystem
 LAR Laminar Angular Rate Sensor
 LARC Langley Research Center (Hampton, VA)**
 LARS Laminar Angular Rate Sensor
 LARSSYAA Laboratory for Application of Remote Sensing
 System for Aircraft Analysis
 LASCOT Large Screen Color Television System
 LAT Lateral
 Latitude
 Lot Acceptance Test
 LATS LDEF Assembly & Transportation System
 LB Load Bank
 Low Bay
 Pound**
 LBDBT Low Bay Dolly Tug
 LC Launch Complex
 LCA Launch Control Amplifier
 Load Controller Assembly
 LCC Launch Commit Criteria
 Launch Control Center
 Life Cycle Cost
 LCCD Launch Commit Criteria Document
 LCD Launch Countdown

**See note 2, page ii

LCF	Low Cycle Fatigue
LCG	Liquid Cooled Garment
LCHTF	Low Cycle High Temperature Fatigue
LCMS	Low Cost Modular Spacecraft
LCR	Low Cross Range
LCS	List of Command Signals
LCU	Line Coupling Unit
LD	Loading Dock
LDB	Launch Data Bus
	Logistics Data Bank
LDEC	Lunar Docking Events Controller
LDEF	Long Duration Exposure Facility
LDS	Landing, Deservicing & Safing
	Landing/Deceleration Subsystem
	Loads
LE	Launch Escape
	Leading Edge
LEA	Logistics Engineering Analysis
LEC	Lockheed Electronics Company
LED	Light Emitting Diode
LEO	Low Earth Orbit
LERC	Lewis Research Center (Cleveland, OH)
LES	Launch Equipment Shop
	Launch Escape Subsystem
LESS	Leading Edge Structure Subsystem
LETF	Launch Equipment Test Facility
LF	Launch Facility
	Launch Forward
	Load Factor
	Low Frequency
LFOP	Landing & Ferry Operations Panel
LG	Landing Gear
LGA	Low Gain Antenna
LH	Left Hand
LH2	Liquid Hydrogen*
LHA	Local Hour Angle
LHCP	Left Hand Circular Polarization
LHE	Liquid Helium**
LID	Leadless Inverted Device
	Logistics Identification Document
LIDAR	Laser-Radar
LIM	Limit
LIMRC	LRU Identification and Maintenance Requirements
	Catalog
LIMS	Logistics Inventory Management System
LINJET	Liquid Injection Electric Thruster
LIOH	Lithium Hydroxide**

*See note 1, page ii

**See note 2, page ii

LL	Launch Left Launch & Landing Long Lead Low Level
LLCF	Launch and Landing Computational Facilities
LLI	Limited Life Item Long Lead Time
LLIL	Long Leadtime Items List
LLP	Launch & Landing Project
LLS	Launch & Landing Site
LM	Long Module
LMF	Lower Mid-Fuselage
LMK	Landmark
LMP	List of Measurement Points
LMS	Load Measurement System Logistics Master Schedules
LMSC	Lockheed Missiles & Space Corporation
LN2	Liquid Nitrogen*
LNDG	Landing
LNG	Liquified Natural Gas
LO	Launch Operations
LO2	Liquid Oxygen (LOX)*
LOA	Landing Operations Area Launch Operations Area
LOAP	List of Applicable Publications
LOB	Line of Balance
LOC	Launch Operations Complex
LOCC	Launch Operations Control Center
LOE	Level of Effort
LOGO	Limit of Government Obligation
LOL	Limit of Liability
LOLI	Limited Operational-Life Items
LORA	Level of Repair Analysis
LORAN	Long Range Navigation
LOS	Lift-Off Simulator Line Of Sight Loss Of Signal
LOV	Limit Of Visibility Loss Of Visibility
LOWG	Landing Operations Working Group
LOX	Liquid Oxygen (LO2)*
LP	Launch Pad Low Pressure
LPD	Launch Procedure Document
LPDM	List of Physical Dimensions
LPFTP	Low-Pressure Fuel Turbopump
LPG	Liquid Propellant Gun
LPLWS	Launch Pad Lightning Warning System
LPM	Lines Per Minute
LPOP	Low-Pressure Oxidizer Pump

*See note 1, page ii

LPOTP	Low-Pressure Oxidizer Turbopump
LPR	Line Printer
LPS	Launch Processing System
	Liters Per Second
LPS/CDS	LPS/Central Data Subsystem
LPW	Lumens Per Watt
LR	Launch Right
LR/LD	Line Receiver/Line Driver
LRO	Large Radio Observatory
LRR	Launch Readiness Review
LRSI	Low Temperature Reusable Surface Insulation
LRU	Line Replaceable Unit
LRV	Launch Readiness Verification
LS	Life Science
	Limit Switch
LS/ST	Light Shield/Star Tracker
LSA	Logistics Support Analysis
LSAH	Launch Site Accommodations Handbook
LSB	Least Significant Bit
	Lower Side Band
LSC	Linear Shape Charge
LSCA	Logistics Support Cost Analysis
LSD	Landing Ship Dock
LSE	Launch Support Equipment
	Life Support Equipment
LSFE	Life Sciences Flight Experiments
LSI	Large Scale Integration
LSID	Launch Sequence and Interlock Document
LSM	Life Science Module
LSMI	Logistics Support Management Information
LSO	Large Solar Observatory
LSR	Land Sea Rescue
	Launch Site Recovery
LSS	Life Support Subsystem
LSSF	Life Sciences Support Facility
LSSL	Life Sciences Space Laboratory
LSSM	Launch Site Support Manager
LSSP	Launch Site Support Plan
LSSRC	Life Sciences Shuttle Research Centrifuge
LSST	Launch Site Support Team
LST	Large Space Telescope
	Large Stellar Telescope
	Launch Support Team
	Liquid Storage Tank
	Local Standard Time
LSTE	Launch Site Transportation Equipment
LT	Lead Time
LUS	Liquid Upper Stage
LUT	Launcher-Umbilical Tower

LV	Launch Vehicle
	Lift Vector
	Limit Value
	Load Vertical
	Low Voltage
LVDC	Launch Vehicle Digital Computer
LVDT	Linear Variable Differential Transformer
	Linear Voltage Differential Transformer
LVLH	Local Vertical/Local Horizontal
LWG	Logistics Working Group
LWR	Lower
LWS	Lightning Warning System

M

M	Mach
	Maintainability
	Mandatory
	Mass
	Mega
	Mercury
	Meter
	Million
	Monitor (MON preferred)
M&C	Maintenance & Checkout
M&F	Manufacturing & Facilities
M&M	Materials & Maintenance
M&O	Maintenance and Operations
M&P	Materials & Processes
M&R	Maintenance & Refurbishment
	Maintenance & Repair
M&RF	Maintenance & Refurbishing Facility
M-	Time in Days Before Move Operations
M-KG	Meter-Kilogram
M-M-L-S	Model-Modes-Loads-Stresses
M/F	Maintenance Factor
M/S	Measurement Stimuli
M/SCI	Mission/Safety Critical Item
M/U	Mockup
MA	Maintenance Ability
	Master
	Material Authorization
	Mike Amplifier
	Missed Approach
	Milliampere
	Multiple Access
MA&P	Maintenance Analysis and Planning
MA&T	Manufacturing Assembly & Test
MAA	Mathematical Association of America
	Mechanical Arm Assembly
MAAB	Materials Application Advisory Board
MAAR	Monthly Associate Administrator's Review
MAB	Materials Advisory Board
	Materials Applications Board
	Mechanical Automation Breadboard
	Missile Assembly Building
MAC	Main Display Console
	Maintenance Advisory Committee
	Maximum Allowable Concentration
	Mean Aerodynamic Chord
	Military Airlift Command
	Multi-Access Computer
MACH	Machine
MACO	Major Assembly Checkout

MACRO	Merge & Correlate Recorded Output (Program)
MAD	Madrid, Spain (STDN)
	Maintenance Analysis Data
MADRE	Manufacturing Data Retrieval System
MADS	Modular Auxiliary Data Systems
MAF	Manpower Authorization File
	Michoud Assembly Facility
	Mixed Amine Fuel
MAG	Magnetic
	Magnitude
MAGSAT	Magnetometer Satellite
MAI	Machine-Aided Indexing
MAIDS	Management Automated Information Display System
	Multipurpose Automatic Insp. & Diagnostic System
MAINT	Maintenance
MAIR	Manufacturing And Inspection Record
MAL	Malfunction
	Material Allowance List
	Mobile Airlock
MALL	Malleable
MAN	Manual
	Microwave Aerospace Navigation
MAOT	Maximum Allowable Operating Time
MAP	Maintenance Analysis Program
	Message Acceptance Pulse
	Missed Approach Point
MAPOLE	Magnetic Dipole Spark Transmitter
MAPS	Measurement of Air Pollution From Satellites
MARS	Martin Automatic Reporting System
	Modular Airborne Recorder System
MASDC	Military Aircraft Storage & Disposition Center
MAT	Multiple Actuator Test
MATCO	Materials Analysis, Tracking & Control
MATL	Material
MAU	Million Accounting Units
MAX	Maximum
MAXCO	Maximum Dynamic Pressure
MB	Main Bus
	Management Baseline
MB/S	Megabits Per Second
MBAC	Marshall Booster Assembly Contractor
MBCS	Motion-Base Crew Station (SMS)
MBFP	Manufacturing, Build and Flow Plan
MBI	Multibus Interface
MBO	Management By Objective
MBPS	Megabits Per Second
MBV	Main Base Visit
MC	Memory Configuration
	Mission Capability
MC&C	Measurement, Command and Control

MCA	Monitoring and Control Assembly Motor Control Assembly Multi Channel Analyzer
MCBF	Mean Cycle Between Failures
MCC	Main Combustion Chamber Mission Control Center-JSC Motor Control Center, JSC
MCC-DOD	Mission Control Center - DOD
MCC-H	Mission Control Center - Houston
MCC-K	Mission Control Center - Kennedy
MCC-NASA	Mission Control Center - NASA
MCCC	Mission Control and Computing Center
MCCS	Mission Control Center Simulation (System)
MCD	Maintenance Control & Display System
MCDU	Multifunction CRT Display System
MCF	Multifunction CRT Display Unit Maintenance & Checkout Facility
MCIU	Mission Control Facility Manipulator Controller Interface Unit Mission Control & Interface Unit
MCL	Mass Change Log Master Configuration List
MCN	Master Change Notice
MCO	Mission Control Operations
MCOP	Mission Control Operations Panel
MCP	Master Change Proposal Master Computer Program Materials Control Plan Measurements Control Procedure Mission Control Programmer Monitoring and Control Panel
MCPS	Major Cost Proposal System
MCR	Master Change Record
MCS	Maintenance & Checkout Station Measurements Calibration System
MCU	Master Control Unit Mission Control Unit
MCVP	Materials Control and Verification Program
MCW	Modulated Continuous Wave
MD	Biomedical Office (KSC Directorate) Malfunction Detection Master Dimension Microdot Mission Director
MDA	Maintainability Design Approach
MDAC	McDonnell Douglas Astronautics Company
MDAR	Malfunction Detection, Analysis & Recording
MDAS	Meteorological Data Acquisition System Mission Data Acquisition System
MDB	Mission Data Book

MDC	Main Display Console Mission Director Center Mission Duty Cycle
MDCS	Maintenance Data Collection System Master Digital Command System Material Data Collection System
MDD	Mate/Demate Device Mating and Demating Device
MDDS	Material Directory Data Sheet
MDE	Mission Dependent Equipment Mission Dependent Experiment Modular Display Electronics
MDF	Main Distribution Frame Manipulator Development Facility Mating/Demating Facilities Mild Detonating Fuse
MDL	Master Data Library
MDM	Multiplexer/Demultiplexer
MDR	Maintenance Demand Rate Major Design Review Minor Discrepancy Repair Missing Data Report Mission Data Reduction
MDRD	Mission Data Requirements Document
MDRS	Manufacturing Data Retrieval System Mission Data Retrieval System
MDS	Malfunction Detection System Management Data System Master Development Schedule Minimum Discernible System Mission Development Simulator
MDSD	Mate/Demate Stiffleg Derrick
MDT	Mean Detonating Time Mean Down Time Measurement Descriptor Table Mountain Daylight Time
MDTSCO	McDonnell Douglas Technical Services Company
ME	Main Engine Management Engineering Miscellaneous Equipment
MEA	Main Electronics Assembly Maintenance Engineering Analysis Material Experiment Assembly
MEAR	Maintenance Engineering Analysis Request
MEAS	Measuring, Measurement
MEBO	Main Engine Burnout
MEC	Main Engine Controller Master Event Controller
MECA	Main Engine Controller Assembly
MECCA	Master Electrical Common Connector Assembly
MECF	Main Engine Computational Facilities
MECH	Mechanical

MECO	Main Engine Cutoff
MECR	Maintenance Engineering Change Request
MED	Medical
	Medium
MEDICS	Medical Information Computer System
MEE	Mission Essential Equipment
MEG	Megohm
MEI	Master Inspection Item
MEL	Minimum Equipment List
	Master Equipment List
MELI	Master Equipment List Index
MEM	Module Exchange Mechanism
MEOP	Maximum Expected Operating Pressure
MEP	Management Engineering Program
	Mean Effective Pressure
MER	Meridian
	Mission Evaluation Room
MERL	Materials Engineering Research Laboratory
	Materials Equipment Requirement List
MERSAT	Meteorology and Earth Observation Satellite
MES	Main Engine Start
	Mated Elements Simulator
	Mated Events Simulator
MESA	Miniature Electrostatic Accelerometer
	Modular Equipment Stowage Assembly
MET	Master Events Timer
	Meteorological
	Mission Elapsed Time
	Mission Events Timer
MEWG	Maintenance Engineering Working Group
MF	Mate and Ferry
	Medium Frequency (300 to 3000 kHz)
MFA	Manned Flight Awareness
MFBP	Manufacturing Flow & Building Plan
MFC	Multiple Flight Computer
	Multiple Flight Controller
MFD	Malfunction Detection
MFG	Major Functional Group
	Manufacturing
MFO	Major Function Overlay
MFR	Maximum Flight Rate
	Multifunctional Receiver
	Multifunctional Review
MFT	Mean Flight Time
MFTAD	Master Flight Test Assignments Document (JSC)
MFV	Main Fuel Valve
MG	Magnesium
	Mobile Generator
MGA	Middle Gimbal Angle
MGE	Maintenance Ground Equipment
MGMT	Management
MGR	Manager

MGSE	Mechanical Ground Support Equipment
MGT	Major Ground Test
MGVT	Mated Ground Vibration Test
MHC	Manipulator Hand Controller
MHD	Multi-Head Disc
MHE	Material Handling Equipment
MHF	Medium High Frequency
MHP	Manipulator Hand Controller
MHW	Multihundred Watt
MHZ	Megahertz (Megacycles per Second)**
MI	Mile
MIA	Multiplex Interface Adapter
MIB	Master Interconnect Board
MIC	Management Information Center
MICIS	Material Information Control & Information System
MICOM	Missile Command (Army)
MICS	Management Information and Control System
MIL	GSFC Spaceflight Tracking & Data Network Station, KSC Military
MILA	Merritt Island Launch Area
MILSTRIP	Military Standard Requisition and Issue Procedure
MIMOSA	Mission Modes and Space Analysis
MIMS	Medical Information Management System
MIN	Minimum Minute
MINW	Master Interface Network
MIO	Management Integration Office
MIP	Mandatory Inspection Point Modification Instruction Package MMU Integration Plan
MIPR	Military Intergovernmental Purchase Request
MIPS	Merritt Island Press Site
MIR	Malfunction Investigation Report
MIS	Management Information System Mission Information Subsystem
MISC	Miscellaneous
MISS	Mission
MIT	Massachusetts Institute of Technology (CSDL)
MITTS	Mobile Igor Tracking Telescope System
MIUS	Modular Integrated Utility Systems
MJ	Mechanical Joint
MJS	Manipulator Jettison System (Subsystem)
MKTI	Mission Kit Technical Instruction
ML	Mobile Launcher Mold Line
ML PED	Mobile Launcher Pedestal
MLA	Monochrome Lens Assembly
MLB	Multilayer Board
MLC	Mobile Launcher Computer
MLG	Main Landing Gear

**See note 2, page ii

MLGS	Microwave Landing Guidance System
MLI	Multilayer Insulation
MLP	Mobile Launch (Launcher) Platform
MLR	Monodisperse Latex Reactor
MLS	Microwave Landing System
MM	Main Module
	Man-Month
	Mass Memory
	Math Model
	Millimeter
	Mission Manager
MMACS	Maintenance Management and Control System
MMAS	Material Management Accountability System
MMC	Martin Marietta Corporation
	Mission Management Center
MMDB	Master Measurement Data Base
MMDF	Mission Model Data File
MMES	MSFC Mated Element Systems
MMH	Maintenance Man-Hour
	Monomethylhydrazine
MML	Master Measurements List
MMLS	Model-Modes-Loads-Stresses
MMOS	Multimode Optical Sensor
MMPSE	Multi-Use Mission Payload Support Equipment
MMS	Multi-Mission Modular Spacecraft
MMSE	Multi-Use Mission Support Equipment
MMT	Mass Memory Test
MMU	Manned Maneuvering Unit
	Mass Memory Unit
MN	Main
MNVR	Maneuver
MO	Major Objective
	Manufacturing Order
	Molybdenum
	Move
MOA	Make On Arrival
	Memorandum Of Agreement
	Minute-of-Angle
MOC	Marine Operation Center
MOCF	Mission Operations Computational Facilities
MOCR	Mission Operations Control Room
MOCS	Multichannel Ocean Color Sensor
MOCV	Manual O2 Control Valve*
MOD	Modification
	Modulator
	Module, Modular
MODEM	Modulator-Demodulator
MODS	Modifications
MOF	Manned Orbital Flight
MON	Monitor

*See note 1, page ii

MOP	Mission Operations Plan
MOPR	Mission Operations Planning Review
	Mission Operations Planning Room
MOPS	Military Operations Phone System
	Mission Operations Planning System
MOR	Manufacturing Operation Record
MORD	Medical Operations Requirements Document
	Mission Operations Requirements Document
MORT	Management Oversight and Risk Tree
MOS	Metal Oxide on a Substrate
	Metal Oxide Semiconductor
MOSPO	Mobile Satellite Photometric Observatory
MOT	Motor
MOU	Memorandum Of Understanding
MOV	Main Oxidizer Valve
MP	Management Package
	Measuring Point
	Medium Pressure
	Meteorology Panel
	Mod Package
MP&C	Maintenance Planning and Control
MPAD	Mission Planning and Analysis Division (JSC)
MPB	Maintenance Parts Breakdown
MPC	Memory Protection Check
	Meteorological Prediction Center
MPD	Maximum Permissible Dose
MPESS	Mission Peculiar Experiment Support Structure
MPG	Multipoint Grounding
MPGHM	Mobile Payload Ground Handling Mechanism
MPHE	Material & Personnel Handling Equipment
MPIIN	Modification Procurement Instrument Identification Number
MPL	Maintenance Parts List
	Mechanical Parts List
	Minimum Power Level (65%)
MPLN	Maintenance Planning (Data Base)
MPM	Manipulator Positioning Mechanism
MPMP	Mass Properties Management Plan
MPMSE	Multi-Use Payload & Mission Support Equipment
MPP	Material Processing Procedure
MPPSE	Multi-Purpose Payload Support Equipment
MPR	Maintainability Problem Report
	Management Program Review
	Mockup Purchase Request
MPS	Main Propulsion Subsystem
	Master Program Schedule
	Material Processing Specification
	Material Processing System
MPSR	Mission Profile Storage & Retrieval
	Multipurpose Support Room
MPSS	Main Parachute Support Structure
MPT	Main Propulsion Test

MPTA	Main Propulsion Test Article
MPPTF	Main Propulsion Test Facility
MPVA	Main Propellant Valve Actuator
MR	Material Review
	Mixture Ratio
MRA	Mechanical Readiness Assessment
MRB	Material Review Board
MRC	Measurement Requirements Committee
MRD	Material Review Disposition
	Mission Requirements Document
MRDR	Material Review Disposition Record
MRF	Maintenance Responsibility File
	Maximum Retarding Force
	Measurements/Stimuli Request Form
MRIR	Medium Resolution Infrared Radiometer
MRL	Manipulator Retention Latches
	Material Requirements List
MRS	Management Review System
MRTC	Mutiple Real Time Commands
MS	Machine Screw
	Machine Steel
	Margin of Safety
	Mass Spectrometer
	Master Switch
	Material Specification
	Mating Sequence and Control
	Milestone
	Military Standard (Parts Designation)
	Millisecond
	Mission Specialist
	Mission Station
	Multi-String
MS/MS	Material Science and Manufacturing in Space
MSA	Material Service Area
	Minimum Surface Area
	MSA-1
MSAD	Materials Summary Acceptance Document
MSB	Most Significant Bit
MSBLS	Microwave Scanning Beam Land Station
	Microwave Scanning Beam Landing System
MSBLS-GS	MSBLS Ground Station
MSC	Manned Spacecraft Center (Changed to JSC)
	Master Sequence Controller
	Materials Service Center
	Military Sealift Command
MSCR	Measurement/Stimuli Change Request
MSD	MARS Supplemental Data
MSDS	Multispectral Scanner and Data System

MSE	Maintenance Support Equipment Measuring & Stimuli Equipment Mechanical Support Equipment Medical Support Equipment Mission Staff Engineer
MSF	Maintenance Source File Manned Space Flight
MSFC	George C. Marshall Space Flight Center
MSFN	Manned Space Flight Network
MSG	Message
MSI	Maintenance Significant Items Medium Scale Integration
MSIA	Multi-Spectral Image Analyzer
MSID	Measurement Stimulation Identification
MSL	Mean Sea Level Mechanical Systems Laboratory
MSLD	Mass Spectrometer Leak Detector
MSM	Manned Support Module
MSO	Model for Spares Optimization
MSOB	Manned Spacecraft Operations Building (O&C preferred)
MSOCC	Multisatellite Operations Control Center
MSOIN	Minor Subcontractor Or IDWA Notification
MS	Maintenance Status System Manufacturers Standardization Society Mission Specialist Station Mobile Service Structure Multispectral Scanner System
MST	Measurement Status Table Mobile Service Tower Mountain Standard Time
MSU	Mass Storage Unit Measuring Stimuli Units
MSV	Monitored Sine Vibration (Test)
MSW	Microswitch
MT	Magnetic Tape Master Timer Master Tool Maximum Torque Mechanical Technician Mission Trajectory Mount Mountain Time
MTA	Maintenance Task Analysis Major Test Article Mass Thermal Analysis
MTB	Materials Testing Branch
MTBD	Mean Time Between Demand
MTBF	Mean Time Between Failure
MTBM	Mean Time Between Maintenance
MTBMA	Mean Time Between Maintenance Action
MTBR	Mean Time Between Replacement

MTC	Master Thrust Control
MTC A	Monitor & Test Control Area
MTCU	Magnetic Tape Control Unit
MTD	Mounted
MTDSK	Magnetic Tape Disk
MTE	Maintenance Test Equipment
	Multi-System Test Equipment
MTEC	Maintenance Test Equipment Catalog
MTEE	Maintenance Test Equipment, Electrical
MTEEC	Maintenance Test Equipment, Electronic
MTEF	Maintenance Test Equipment, Fluid
MTEM	Maintenance Test Equipment Module
	Mechanical Maintenance Test Equipment
MTEO	Maintenance Test Equipment, Optical
MTF	Mississippi Test Facility (Now NSTL)
MTFO	Modular Training Field Option
MTG	Mounting
MTGP	Monitor Table Generator Program
MTK	Mechanical Time Keeping
MTL	Material
MTLP	Monitor Table Listing Program
MTM	Methods Time Measurement
MTO	Magnetic Tape Operator
	Mission, Task, Objective
	Modification Task Outline
MTP	Manufacturing Technical Procedure
	Master Test Plan
	Mission Test Plan
MTS	Magnetic Tape Station (System)
	Metric Time System
MTT	Maximum Touch Temperature
MTTA	Mean Time to Accomplish
MTTE	Mean Time to Exchange
MTTF	Mean Time To Failure
MTTFF	Mean Time To First Failure
MTRR	Mean Time To Repair
MTU	Magnetic Tape Unit
	Master Timing Unit
	Mobile Training Unit
MU	Master Unit
	Mobile Unit
	Mockup
	Multiple Unit.
MUA	Material Usage Agreement
	Maximum Usable Altitude
MUF	Maximum Usable Frequency
MULT	Multiple
MUMS	Multiple Use Marc System
MUSAT	Canadian Government Satellite
MUSS	Module Utility Support Structure
MUX	Multiplexer

MV	Manufacturing Verification Millivolt
MVA	Main Valve Actuator Megavolt Ampere
MVAS	Multipurpose Ventricular Actuating System
MVC	Manual Volume Control Master Volume Control
MVGVT	Mated Vertical Ground Vibration Test
MVM	Mariner Venus/Mercury
MVP	Master Verification Plan
MVS	Multiple Virtual Storage
MVT	Mission Verification Test
MW	Man Week Microwave Milliwatt
MWB	Master Work Book
MWG	Maintenance Analyzer Working Group
MWP	Maximum Working Pressure
MWPR	Monthly Work Package Report
MWR	Mean Width Ratio
MWV	Maximum Working Voltage
MX	Multiplex
MY	Man Year
MYTA	Maintainability Task Analyses
MYVAL	Maintainability Evaluation

N

N	Neutron Newton North
N&G	Navigation & Guidance (G&N is preferred)
N/A	Next Assembly Not Applicable
N/B	Narrow Band
N/C	Normally Closed Not Critical Numerical Control
N/D	Need Date
N/O	Normally Open
N/P	Not Provided
N/W	Network
N2	Nitrogen*
N2H4	Hydrazine*
N2O4	Nitrogen Tetroxide*
NA	Next Action Not Applicable
NAC	Nacelle
NAM	National Association of Manufacturers
NAP	Navigation Analysis Program
NAR	Numerical Analysis Research
NARS	National Archives & Record Services
NAS	National Academy of Sciences National Aircraft Standard Naval Air Station
NASA	National Aeronautics and Space Administration
NASCOM	NASA Communications (Network)
NASTRAN	NASA Structural Analysis
NATF	Naval Air Test Facility
NATL	National
NAV	Navigation
NAVAID	Navigation Aid
NAVDAD	Navigationally Derived Air Data
NAVSAT	Navigation Satellite
NB	Navigation Base Niobium Nitrogen Base No-Bias (Relay)
NBS	National Bureau of Standards
NBT	Neutral Buoyancy Trainer
NC	National Coarse No Change No Comment Noise Criteria Numerical Control

*See note 1, page ii

NCC	NASA Class Code
NCGS	Nuclear Criteria Group Secretary
NCR	Nonconformance/Failure Report
ND	NASA Document
	Neodymium
NDE	Nondestructive Evaluation
NDI	Nondestructive Inspection
NDT	Nondestructive Test
NDTF	Nondestructive Test Facility
NDTL	Nondestructive Test Laboratory
NEC	National Electrical Code
NEG	Negative
NESC	National Electrical Safety Code
NET	Network (N/W is preferred)
NETCOM	Network Communications
NFPA	National Fire Protection Association
NG	Narrow Gauge
NH3	Ammonia*
NH4	Hydrazine*
NHA	Next Higher Assembly
NHB	NASA Handbook
NHC	National Hurricane Center
NI	Nickel**
NI-SIL	Nickel-Silver
NIB	Non Interference Basis
NIC	Not In Contract
NICD	Nickel Cadmium
NIDS	Network Interface Data System
NIL	No Limit (NL is preferred)
NIP	Network Interface Processor
	Nipple
NJP	Network Job Processing
NL	No Limit
NLA	Next Lower Assembly
NLG	Nose Landing Gear
NM	Nautical Miles
	Non Metallic
NMAB	National Materials Advisory Board
NMC	National Meteorological Center
NMI	NASA Management Instruction
NMO	Normal Manual Operation
NMR	Nuclear Magnetic Resonance
NMT	Notification of Master Tool
NO	Nitric Oxide
NO.	Number
NOAA	National Oceanic & Atmospheric Administration
NOC	Network Operation Control
	Notation of Content
	Not Otherwise Coded

*See note 1, page ii

**See note 2, page ii

NOCC	Network Operations Control Center
NOES	National Operational Environmental Satellite Serv.
NOM	Network Output Multiplexer
NOR	Normal
	Northrup Flight Strip, NM (Deorb OPT site)
NORAD	North American Air Defense Command
NORDSAT	Scandinavian Countries Broadcast Satellite
NOSL	Night/Day Optical Survey of Thunderstorm Lightning
NOSP	Network Operations Support Document
NOSS	National Oceanic Survey Satellite
NOZ	Nozzle
NP	Neptunium
	Network Program
	Not Provided
NPC	NASA Publication Control
NPD	NASA Policy Directive
NPL	Normal Power Level (see RPL)
NPN	NASA Part Number
NPS	NASA Planning Studies
NPSH	Net Positive Suction Head
NPSP	Net Positive Static Pressure
	Net Positive Suction Pressure
NPV	Nitrogen Pressure Valve
NR	Noise Rating
	Not Required
NRC	Nonrecurring Costs
NRCC	National Research Council of Canada
NRI	Nonrecurring Investment
NRM	Nonrecurring Maintenance
NRP	Normal Rated Power
NRS	Nonconformance Reporting system
NRT	Near Real Time
NRTS	Not Repairable at This Station
NRZ	Non-Return-To-Zero
NRZ-L	Non-Return-to-Zero-Level
NS	Nickel Steel
	Not Switchable
	Nuclear Shuttle
NSA	National Standards Association
NSI-I	NASA Standard Initiator - Type I (Was SMSI)
NSN	National Stock Number
NSO	NASA Support Operation
NSP	NASA Support Plan
	Network Signal Processor
NSR	National Slow Rate
	Nominal Slow Rate
NSTL	National Space Technology Laboratory (Was MTF)
NTO	Nitrogen Tetroxide
NTP	Network Test Panel
	Normal Temperature & Pressure
	Notice to Proceed

NTS	Near Term Schedule
	Not To Scale
NTSO	NASA Test Support Office
NTTF	Network Test and Training Facility
NUL	Non-GSE Utilization List
NVAFB	North Vandenberg Air Force Base
NVPOWG	NASA/VAFB Payload Operations Working Group
NVR	Nonvolatile Residue
	No Verification Required
	No Voltage Release
NW	NASA Waiver
NWS	Nose-Wheel Steering
NWSI	New World Services Inc.
NWT	Nonwatertight

O&C	Operations & Checkout (Building - Was MSOB) Operation and Checkout
O&FS	Operations & Flight Support
O&M	Operation & Maintenance
O&R	Overhaul & Repair
O/C	Operations Critical
O/D	On Dock
O/ET	Orbiter/External Tank
O/F	Oxidizer-To-Fuel Ratio
O/L	OverLoad
O/L-RC	Overload-Reverse Current
O/R	Outside Radius Oxygen Relief
O/V	Overvoltage
O2	Oxygen*
OA	Office of Applications Operational Aft (DSC or MOM) Orbital Assembly Output Axis
OAA	Orbiter Access Arm Orbiter Alternate Airfield
OAFD	Orbiter Aft Flight Deck
OAFTO	Orbiter Atmospheric Flight Test Office
OAL	Overall Level
OAS	Orbiter Aeroflight Simulator Orbiter Avionics System
OASCB	Orbiter Avionics Software Control Board
OASIS	Oceanic & Atmospheric Scientific Information System
OASO	Orbiter Avionics Systems Office
OASPL	Overall Sound Pressure Level
OAST	Office of Aeronautics and Space Technology
OAT	Operational Acceptance Test Overall Test
OB	On Board Operational Base
OBC	On Board Computer
OBCO	On Board Checkout (Instrumentation)
OBCS	On Board Checkout Subsystem
OBS	Observer
OBV	Oxidizer Bleed Valve Oxygen Bleed Valve
OC	On Center On-Condition Open Circuit Overcurrent
OCC	Office of Contract Compliance Operations Control Center

*See note 1, page ii

OCDR	Orbiter Critical Design Review
OCDU	Optics Coupling Data Unit (G&N)
OCE	Ocean Color Experiment
OCF	Onboard Computational Facility
	Orbiter Computational Facilities
OCH	Orbiter Common Hardware
OCN	Order Control Number
OCO	Open-Close-Open
OCP	Output Control Pulse
OCR	Optical Character Recognition
OCRM	Orbiter Crash and Rescue Manuals
OCS	Onboard Checkout System
OCT	Octal, Octave
OD	Operational Downlink/Downlist
	Operations Directive
	Outside Diameter
ODB	Operational Data Book
ODC	Other Direct Costs
ODCDR	Orbiter Delta CDR
ODES	Optical Discrimination Evaluation Study
ODIN	Orbital Design Integration (System)
ODRAN	Operational Drawing Revision Advance Notice
ODU	Output Display Unit
OEAS	Orbital Emergency Arresting System
OECO	Outboard Engine Cutoff
OEM	Original Equipment Manufacturer
OES	Orbiter Emergency Site
OESS	Orbiter/ET Separation Subsystem
OEX	Orbiter Experiments
OF	Orbital Flight
	Outside Face
	Oxygen Fill
OFCC	Office of Federal Contract Compliance
OFDS	Orbiter Flight Dynamics Simulator
	Oxygen Fluid Distribution System
OFI	Operational Flight Instrumentation
OFK	Official Flight Kit
OFM	Original Equipment Manufacturer
OFF	Operational Flight Profile
	Operational Flight Program
	Orbiter Flight Program
OFS	Orbital Flight System
	Orbiter Flight System
OFT	Orbital Flight Test
OFTDS	Orbital Flight Test Data System
OFTR	Orbital Flight Test Requirement
OG	Outer Gimbal (Roll)
	Oxygen Gage
OGA	Outer Gimbal Angle
OGE	Operating Ground Equipment
OGV	Oxygen Gage Valve

OH	Overhaul Overhead
OHA	Operational Hazard Analysis
OHF	Occupational Health Facility
OHGVT	Orbital Horizontal Ground Vibration Test
OI	Operational Instrumentation Orbiter Instrumentation
OIA	Office of International Affairs Orbiter Interface Adapter
OIC	Orbiter Integrated Checkout
OII	Operations Integration Instruction
OIR	Operations Integration Review
OIS	Operational Intercommunication System
OISR	Open Item Status Report
OIT	Orbiter Integrated Test
OIVS	Orbiter Interface Verification Set
OJT	On-the-Job Training
OL	Open Loop
OLDB	On-Line Data Bank
OLF	Orbiter Landing Facility (now SLF)
OLIF	Orbiter Landing Instrumentation Facilities
OLOW	Orbiter Lift-Off Weight
OLSA	Orbiter/LPS Signal Adapter
OLSP	Orbiter Logistics Support Plan
OM	Optical Master Outer Marker (ILS)
OMA	Operations Maintenance Area Orbiter Maintenance Area
OMB	Office of Management and Budget
OMBUU	Orbiter Midbody Umbilical Unit
OMC	Orbiter Maintenance and Checkout
OMCF	Operations & Maintenance Control File Orbiter Maintenance & Checkout Facility
OMD	Operations & Maintenance Documentation Orbiter Mating Device
OMDR	Operations & Maintenance Data Record
OMDR1	Operations & Maintainability Data Record
OME	Orbital Maneuvering Engine Orbiter Main Engine
OMEWG	Orbiter Maintenance Engineering Working Group
OMI	Operations & Maintenance Instruction
OMIS	Operational Management Information System
OMISS	Operation & Maintenance Instruction Summary Sheet
OML	Orbiter Mold Line Outside Mold Line
OMMH	Orbiter Maintenance Man-Hours
OMNI	Omnidirectional Omni-Range
OMP	Operations & Maintenance Plan
OMPR	Operational Maintainability Problem Reporting
OMPT	Observed Mass Point Trajectory

OMR	Operations & Maintenance Requirements Operations Management Room Orbiter Management Review
OMRC	Operational Maintenance Requirements Catalog
OMRP	Operations & Maintenance Requirements Plan
OMRS	Operations & Maintenance Requirements Specification
OMRSD	O&M Requirements and Specification Documentation Operational Maintainability Reporting Systems Document Operational Maintenance Requirements & Specification Document
OMS	Orbital Maneuvering Subsystem
OMSF	Office of Manned Space Flight
OMSP	Operational Maintenance Support Plan
OMU	Optical Measuring Unit
OMV	Oxygen Manual Valve
ONBT	Orbiter Neutral Buoyancy Trainee
OND	Operator Need Date
ONR	Office of Naval Research
OOD	Orbiter On-Dock
OOMM	Organizational Operations & Maintenance Manual
OOP	Out of Position
OOS	On-Orbit Station Orbit-to-Orbit Shuttle Orbit-to-Orbit Stage
OOT	Out of Tolerance
OP	Oxygen Purge
OPA	Operations Planning Analysis
OPB	Oxidizer Preburner
OPBOV	Oxidizer Preburner Oxidizer Valve
OPE	Other Project Element
OPER	Operational, Operate, Operator
OPF	Orbiter Processing Facility
OPGUID	Optimum Guidance (Technique)
OPIDF	Operational Planning Identification File
OPIS	Orbiter Prime Item Specification
OPL	Open Problem list Operational
OPLF	Orbiter Processing and Landing Facility
OPO	Orbiter Projects Office
OPOV	Oxidizer Preburner Oxidizer Valve
OPPAR	Orbiter Project Parts Authorization Request
OPPL	Orbiter Project Parts List
OPR	Office of Primary Responsibility Operations Planning Review
OPS	Operations Operations Sequence Orbiter Project Schedules Oxygen Purge System
OPSB	Orbiter Processing Support Building

OPT	Operational Pressure Transducer Optics Optimum
OR	Operations Requirement Operations Review
ORB	Orbiter
ORB 1-g	Orbiter one-g (trainer)
ORD	Operational Readiness Date Operational Ready Data Operational Requirements Document Ordnance
ORF	Orifice
ORG	Organization
ORI	Operational Readiness Inspection
ORLA	Optimum Repair Level Analysis
ORR	Operational Readiness Review Operations Requirements Review
ORT	Orbital Valley, Australia (STDN)
OS	Orbit Readiness Test Operating Software Operating System Optics Subsystem Orbiter CEI Specification
OSA	Operational Support Area
OSC	Oscillator
OSDH	Orbiter System Definition Handbook
OSE	Operating Support Equipment Orbiter Support Equipment
OSF	Office of Space Flight (NASA HQ) Ordnance Storage Facility
OSHA	Occupational Safety and Health Act Occupational Safety and Health Administration
OSLM	Operations Shop/Lab Manager
OSM	Orbital Service Module
OSMP	Operational Support Maintenance Plan
OSO	Ocean Systems Operation
OSOP	Orbiter Systems Operating Procedures
OSP	Operations Support Plan
OSR	Operations Support Room
OSS	Office of Space Science Optics Subsystems Orbiting Space Station
OSSRH	Orbiter Subsystem Requirements Handbook
OST	Orbiter Support Trolley
OSTA	Office of Space and Terrestrial Application
OSTP	Orbiting System Test Plan
OT	Operating Time Operational Trajectory Overtime
OT&E	Operational Test and Evaluation
OTA	Optical Telescope Assembly
OTB	Orbiting Tanker Base

OTC	Orbiter Test Conductor
OTD	Operational Technical Documentation
	Orbiter Test Director
OTDA	Office of Tracking and Data Acquisition
OTH	Over-The-Horizon (Radar)
OTL	Ordnance Test Laboratory
OTLC	Orbiter Timeline Constraints
OTO	One-Time-Only
OTOS	Orbit-To-Orbit Stage
OTP	Operations Test Plan
	Operations Turnaround Plan
OTR	Operating Time Record
	Outer
OTS	Off-The-Shelf
OTV	Operational Television
	Orbital Transfer Vehicle
OUT	Orbiter Utilities Tray
	Outlet
	Output
OV	Orbiter Vehicle
	Oxygen Vent
OVBD	Overboard
OVCO	Operational Voice Communication Office
OVF	Overfill
OVFL	Overflow
OVHD	Overhead
OVHT	Overheat
OVI	Operational Validation Inspection
OVLD	Overload
OVRD	Override
OVS	Operational Voice System
OVV	Overvoltage
OW	Optical Window
OWD	One-Way Doppler
OWDE	One-Way Doppler Extraction
OWF	Optimum Working Frequency
OXD	Oxide
OXID	Oxidizer
OXY	Oxygen
OZ	Ounce
	Ozone

P

P Pallet (Spacelab)
 Period
 Pitch
 Pole
 Pressure
 Primary
 P&I Performance & Interface (Specification)
 P&M Performance Monitor
 Phase Modulation (Modulated)
 Planetary Mission
 Preventive Maintenance
 Processes & Materials
 Program Milestone
 Pulse Modulation
 P&R Performance and Resources
 P&SM Procurement & Subcontract Management
 P-P Peak-to-Peak (Value)
 P/A Problem Analysis
 P/B Preburner
 Pushbutton
 P/C Pitch Control
 P/L Parts List
 Payload
 Post Landing
 Purchased Labor
 P/N Part Number
 P/P Patch Panel
 Printer/Plotter
 P/PL Primary Payload
 P/S Payload Specialist
 PA Pad Abort
 Paging & Area Warning
 Power Amplifier
 Product Assurance
 Public Address
 Public Affairs
 Pulse Amplifier
 PAC Problem Action Center
 PACAS Personnel Access Control Accountability System
 PACC Problem Action Control Center
 PACS Pointing & Attitude Control System
 PAD Program Approval Document
 Propellant Acquisition Device
 PAE Preventive Action Engineer
 Problem Assessment Engineering
 PAF Payload Attach Fitting
 Peak Annual Funding
 PAFB Patrick Air Force Base
 PAH Payload Accommodations Handbook

PALAPA	Indonesian Communication Satellite
PALS	Photo Area and Location System
	Precision Approach & Landing System
PAM	Payload Assist Module
	Pulse Amplifier Modulation
PAM-A	PAM, Atlas-Centaur Class Spacecraft
PAM-D	PAM, Delta Class Spacecraft
PAMB	Pressure Ambient
PAO	Public Affairs Office
PAP	Product Assurance Plan
PAPI	Precision Approach Path Indicator
PAR	Planning Action Request
	Precision Approach Radar
	Problem Accountability Record
	Problem Action Record
	Problem Action Request
	Product Acceptance Review
PARA	Paragraph
PARS	Property Accountability Record System
PAS	Payload Accommodation Studies
	Primary Ascent System
PASS	Planning And Scheduling System
	Primary Avionics Software System
PAT	Problem Action Team
	Production Acceptance Test
PATP	Preliminary Authority To Proceed
PATS	Program for Analysis of Time Series
PAV	Pressure Actuated Valve
PAX	Passengers
PB	Phonetically Balanced
	Playback
	Preburner (P/B is preferred)
PBAN	Polybutadiene Acrylonitrile (Propellant)
PBD	Payload Bay Door
PBDM	Payload Bay Door Mechanism
PBI	Push Button Indicator
PBIC	Programmable Buffer Interface Card
PBIM	Programmable Buffer Interface Module
PBK	Payload Bay Kit
PBM	Program Business Management
PBPS	Post-Boost Propulsion System
PBW	Proportional Band Width
PC	Printed Circuit (Card)
	Project Control
	Pulsating Current
PCA	Pneumatic Control Assembly
	Point of Closest Approach
	Power Control Assembly
PCB	Power Circuit Breaker
	Power Control Box
	Printed Circuit Board
	Product Configuration Baseline

PCC	Pad Control Center Payload Control & Checkout Production Control Centers
PCCB	Program Configuration Control Board
PCCE	Payload Common Communication Equipment
PCCM	Program Change Control Management
PCCN	Provisioning Contract Control Number
PCCP	Preliminary Contract Change Proposal
PCDU	Payload Command Decoder Unit
PCEM	Propulsion Contamination Effects Module
PCI	Peripheral Controller Interface Procedure Change Unit Program Control Input Product Configuration Identification
PCIL	Pilot-Controlled Instrument Landing
PCIN	Program Change Identification Number
PCL	Program Change Integration Primary Coolant Loop
PCM	Programming Check List Power Control Mission Pulse Code Modulation Punch Card Machine
PCMMU	Pulse Code Modulation Master Unit
PCN	Page Change Notice Program Change Notice
PCO	Program Control Number Post-Checkout Operations Procuring Contracting Officer
PCP	Program Controlled Output Power Control Panel Project Change Proposal
PCR	Project Cost Plan Payload Changeout Room Payload Checkout Room Power Change Request Program Change Request Project Control Room Publication Change Request
PCRB	Program Change Review Board
PCS	Payload Checkout System Payload Control Supervisor Power Conversion System Procedure Completion Sheet
PCT	Percent
PCTE	Portable Commercial Test Equipment
PCTO	Payload Cost Tradeoff Optimization
PCU	Payload Checkout Unit Power Control Unit Pressure Control Unit Process Control Unit
PCV	Pre-Check Verification Purge Control Valve

PCVB	Pyro Continuity Verification Box
PCVL	Pilot-Controlled Visual Landing
PD	Preliminary Design
	Procurement Document
	Procurement Drawing
	Program Directive
	Project Directive
PD&RS	Payload Deployment & Retrieval Subsystem
PDA	Propellant Drain Area
PDAR	Program Description and Requirements
PDB	Performance Data Book
	Power Distribution Box
PDC	Procurement Document Change
PDCR	Proprietary Data Control Record
PDCS	Power Distribution and Control Subsystem
PDI	Payload Data Interleaver
PDL	Procedure Distribution List
	Program Design Language
PDM	Processor Data Monitor
	Pulse Duration Modulation
PDM/FM	Pulse Duration Modulation/Frequency Modulation
PDP	Preliminary Definition Plan
	Procurement Data Package
	Program Development Plan
	Project Definition Phase
PDR	Preliminary Data Requirements
	Preliminary Design Review
	Processed Data Recorder
	Program Director's Review
PDRD	Procurement Data Requirements Document
PDRL	Procurement Data Requirements List
PDRM	Payload Deployment & Retrieval Mechanism
PDRS	Payload Data and Retrieval System
	Payload Deployment and Retrieval Systems
PDRSTA	Payload Deployment and Retrieval System Test Article
PDS	Package Data System
	Partitioned Data Set
	Power Distribution Subsystem
	Problem Data System
PDU	Power Drive Unit
	Pressure Distribution Unit
	Pulse Detection Unit
PE	Project Engineer
PEB	Performance Evaluation Board
PEFO	Payload Effects Follow-on Study
PEIR	Project Equipment Inspection Record
PEM	Plant Engineering and Maintenance
PEP	Power Extension Package
PER	Preliminary Engineering Report
PERF	Performance
PERT	Program Evaluation Review Technique

PETA	Performance Evaluation & Trend Analysis
PETN	Petaerythrite Tetranitrate
PETS	Payload Environmental Transportation System
PF	Parachute Facility
	Payload Forward
	Power Factor
	Powered Flight
	Preflight
	Prime Function
	Probability of Failure
	Pulse Frequency
PFA	Palmdale Final Assembly
PFB	Payload Feedback
	Pressure Fed Booster
PFC	Performance Flight Certification
	Power Factor Corrector
	Preliminary Flight Certification
PFCFS	Primary Flight Control System
PFL	Primary Freon Loop
PFM	Platform
	Pulse Frequency Modulation
PFP	Program Financial Plan
	Programmable Function Panel
PFR	Preliminary Flight Rating Test
PFS	Primary Flight System
PFTA	Payload Flight Test Article
PG	Pressure Gage
PGA	Power Generating Assembly
	Pressure Garment Assembly
PGE	Purge
PGHM	Payload Ground Handling Mechanism
PGNCS	Primary G&N and Control System
PGOR	Payload Ground Operation Requirements
PGORS	Payload Ground Operations Requirements Study
PGR	Spacelab Planning Ground Rule
PGRWG	Payload Ground Requirements Working Group
PGS	Power Generation Subsystem
PH	Hydrogen-Ion Concentration**
	Phase
PHA	Preliminary Hazard Analyses
PHF	Personal Hygiene Facility
PHM	Per Hundred Million
PHR	Payload Hazardous Report
PI	Payload Interrogator
	Preliminary Investigation
	Principal Investigator
	Procurement Item
	Program Introduction
PIA	Pre-Installation Acceptance
	Project Impact Analysis

**See note 2, page ii

PIAR	Project Impact Analysis Report
PIB	Pyrotechnic Installation Building
PIC	Payload Integration Center
	Pre-Installation Checkout
	Programmable Interval Clock
	Pyro Ignition Control
	Pyro Initiator Capacitors
	Pyro Initiator Controller
PICP	Program Interface Control Plan
PICRS	Program Information Control & Retrieval System
	Program Information Coordination & Review Service
PICS	Photo Index and Cataloging System
PID	Payload Insertion Device
	Program Introduction Document
PIDA	Payload Installation & Deployment Aid
PIDS	Portable Image Display System
PIE	P/L Integration Equipment
PIECP	Preliminary Impact Engineering Change Proposal
PIF	Payload Integration Facility
PIGA	Pendulous Integrating Gyro Accelerometer
PII	Procurement Instrument Identification
PIIN	Procurement Instrument Identification Number
PIM	Pulse Interval Modulation
PIND	Particle Impact Noise Detection
	Payload Integration Plan
PIO	Pilot-Induced Oscillation
	Public Information Office
PIP	Payload Integration Plan
	Payload Interface Plan
	Plant Instrumentation Program
	Production Instrumentation Package
PIPA	Pulse Integrating Pendulum Accelerometers
	Pulse Integrating Pendulum Assembly
PIRN	Preliminary Interface Revision Notice
PIT	Pre-Installation Test
PITG	Payload Integration Task Group
PITS	Payload Integration Test Set
PK	Peak (Value)
PK/PK	Peak to Peak
PKD	Programmable Keyboard & Display
PKG	Package
PKM	Perigee Kick Motor
PL	Payload (P/L is preferred)
	Plate
	Plug
	Post Landing (P/L is preferred)
	Prelaunch
PLA	Parachute Location Aid
PLACE	Position Location Aircraft Communications Equipment
PLB	Payload Bay
PLBD	Payload Bay Doors
PLBK	Playback (PB is preferred)

PLD	Program Listing Document
PLGSS	Payload Ground Support Systems
PLH	Payload Handling
PLI	Payload Interrogator
PLISN	Provisioning List Item Sequence Number
PLL	Phase Locked Loop
PLM	Payload Management
	Payload Monitoring
PLMS	Program Logistics Master Schedule
PLN	Program Logic Network
PLRD	Payload Requirements Document
PLRV	Payload Launch Readiness Verification
PLS	Post Landing & Safing
	Primary Landing Site
	Propellant Loading System
	Pressure Measuring Unit
	Preliminary Landing Site
PLSL	Propellants & Life Support Laboratory
PLSP	Payload Signal Processor
PLSS	Portable Life Support Subsystem
PLT	Pilot
	Production Lead Time
PLTS	Precision Laser Tracking System
PLUM	Payload Umbilical Mast
PM	Performance Monitor
	Personnel Office (KSC Directorate)
	Phase Modulation
	Project Manager
	Program Performance
PMAT	Page Map Address Table
PMC	Payload Monitoring & Control
	Plutona-Molybdenum Cermet
	Post Manufacturing Checkout
	Private Medical Communication
	Procurement Method Code
PMDL	Palmdale, California
PMEL	Precision Measurements Equipment Laboratory
PMF	Performance Monitor Function
PMHL	Preferred Measurement Hardware List
PMI	Preventive Maintenance Inspection
	Preventive Maintenance Instruction
	Principal Maintenance Inspector
PMIR	Program Manager's Integration Review
PMIS	Personnel Management Information System
PML	Preliminary Materials List
PMM	Property Management Manual
PMN	Program Management Network
PMOM	Performance Management Operations Manual
PMON	Performance Management Operations Network

PMP	Parts, Materials & Processes Performance Management Package Pre-Modulation Processor Program Management Plan
PMPL	Preferred Mechanical Parts List
PMR	Performance Measurement Report Program Manager's Review
PMS	Performance Management System Performance Measurement System Performance Monitoring System
PMT	Production Monitoring Test
PMTC	Pacific Missile Test Center
PMU	PCM Master Unit Pressure Measuring Unit
PN	Part Number (P/N is preferred) Pseudo-Random Noise
PNEU	Pneumatic
PNL	Panel
PNP	Prenegotiation Position
PO	Post Orbit Purchase Order
POA	Plan Of Action
POC	Payload Operations Center Purchase Order Closeout
POCC	Payload Operations Control Center
POCN	Purchase Order Change Notice
POGO	Polar Orbiting Geophysical Observatory
POL	Petroleum, Oil & Lubricants
POLAR	Production Order Location And Reporting
POM	Pallet-Only Mode Printer Output Microfilm
POMT	Planning Operations Management Team
POP	Perpendicular-to-Orbit Plane Preflight Operations Procedures Prelaunch Operations Plan Program Operating Plan
POPA	Payload Ordnance Processing Area
POR	Purchase Order Request
PORB	Production Operations Review Board
PORCN	Production Order Records Change Notice
PORD	Performance and Operations Requirements Document
PORR	Preliminary Operations Requirements Review
PORT	Portable
POS	Pacific Ocean Ship Portable Oxygen System Position
POST	Program to Optimize Simulated Trajectories Positive
POT	Potentiometer
POV	Peak Operating Voltage Pneumatic Operated Valve
POWS	Project Operating Work Statement

PP Partial Pressure
 Planning Package
 Power Pole
 Push-Pull
 PPB Parts per Billion
 Program Performance Baseline
 PPC Phased Provisioning Code
 Preprocessing Center
 PPEP Plasma Physics & Environmental Perturbation
 PPF Payload Processing Facility (USAF)
 PPI Pulse Position Indicator
 PPIL Priced Provisioned Item List
 PPL Planning Parts List
 Priced Parts List
 Provisioning Parts List
 PPM Parts Per Million
 Pulse Per Minute
 Pulse Position Modulation
 PPME Pacific Plate Motion Experiment
 PPR Payload Preparation Room
 PPS Pneumatic Power Subsystem
 Printer/Plotter System
 Provisioning Performance Schedule
 Pulse Per Second
 PR Performance Report
 Position Record
 Pressure Regulator
 Problem Report
 Procurement Regulation
 Procurement Requisition
 Purchase Request
 PRACA Problem Reporting and Corrective Action
 PRB Panel Review Board
 Parachute Refurbishment Building
 Project Review Board
 PRC People's Republic of China Satellite
 Planning Research Corporation
 PRCA Problem Reporting and Corrective Action
 PRCB Program Requirements Change Board
 Program Review Control Board
 PRCBD Program Requirements Control Board Directive
 Program Review Control Board Directive
 PRD Procurement Regulation Directive
 Procurement Requirements Document
 Program Requirements Document (UDS)
 PRE Personal Rescue Enclosure
 PREP Preparation
 PRESS Pressure
 PRF Parachute Refurbishment Facility
 Pulse Repetition Frequency
 PRI Primary
 PRL Page Revision Log

PRM	Payload Retention Mechanism
PRN	Program Release Notice
	Pseudo-Random Noise
PROC	Procedure
	Processor, Process
	Procurement
PROG	Program
PROJ	Project
PROM	Programmable Read-Only Memory
PROP	Propellant
	Propulsion
PROX	Proximity
PRP	Personnel Reliability Program
PRPS	Programming Requirements Process Specification
PRR	Parts Replacement Request
	Preliminary Requirements Review
	Program Requirements Review
	Pulse Repetition Rate
PRS	Payload Retention Subsystem
	Personnel Rescue Service
	Power Reactant Subsystem
	Primary Recovery Site
	Primary Rescue Site
	Provisioning Requirements Statement
PRSD	Power Reactant Storage and Distribution
	Power Reactant Supply and Distribution
PRSS	Problem Report Squawk Sheet
PS	Parachute Subsystem
	Payload Specialist
	Payload Station
	Payload Support
	Power Supply
	Pressure Switch
PS/FC	Power Supply/Fuel Cell
PSA	Payload Service Area
	Power Servo Amplifier
	Power Servo Assembly
	Pressure Switch Assembly
PSAC	Presidential Scientific Advisory Committee
PSC	Program Schedule Chart
PSCCL	Propellant Systems Cleaning Laboratory
PSCN	Preliminary Specification Change Notice
PSD	Power Spectral Density
	Program Support Document
PSDR	Planning and Scheduling Document Record
PSE	Payload Servicing Equipment
	Payload Support Equipment
	Peculiar Support Equipment
PSF	Processing & Staging Facility (SRB)
	Processing & Storage Facility (ET)
PSFC	Power Supply/Fuel Cell
PSI	Pounds per Square Inch (Static Pressure)

PSIA Pounds per Square Inch (Absolute Pressure)
 PSID Pounds per Square Inch (Differential Pressure)
 PSIG Pounds per Square Inch (Gage Pressure)
 Propulsion Systems Integration Group
 PSIS Pounds per Square Inch (Sealed)
 PSK Phase Shift Keyed
 PSL Pressure Seal
 PSM Propellant Storage Module
 Pyro Substitute Monitor
 PSP Payload Signal Processor
 Payload Specialist Panel
 Program Support Plan
 Project Schedule Plan
 PSPL Priced Spare Parts List
 PSR Program Status Review
 PSRD Program Support Requirements Document
 PSS Pad Safety Supervisor
 Payload Specialist Station
 Propellant Supply Subsystem
 Propulsion Support System
 PSSP Payload Specialist Station Panel
 PSST Periodic Significant Scheduled Tasks
 PSSU Patch Survey & Switching Unit
 PSU Power Switching Unit
 PSV Planetary Space Vehicle
 PT Advanced Planning & Technology Office
 (KSC Directorate)
 Pint
 Point
 Pressure Transducer
 PTA Post Test Analysis
 Potential Toxic Area
 Propulsion Test Article
 PTC Passive Thermal Control
 Portable Temperature Controller
 PTCR Pad Terminal Connection Room
 PTCs Passive Thermal Control Section
 Propellant Tanking Computer System
 PTD Provisioning Technical Documentation
 PTDDSS PTD Data Selection Sheet
 PTI Preliminary Test Information
 Programmed Test Input
 PTM Pulse Time Modulation
 PTO Participating Test Organizations
 PTP Point-To-Point Phone
 PTR Preliminary Test Report
 Printer
 Program Trouble Report
 PTS Payload Test Set
 Payload Transportation System
 PTT Push-To-Talk
 PTV Pathfinder Test Vehicle

PU	Pickup Power Unit Propellant Utilization
PUB	Publication
PUGS	Propellant Utilization & Gauging System
PUSS	Pallet Utility Support Structure
PUV	Propellant Utilization Valve
PV&D	Purge, Vent, and Drain
PVA	Preburner Valve Actuator Propellant Valve Actuator
PVR	Precision Voltage Reference
PVRD	Purge, Vent, Repressurize, and Drain
PVRO	Pyrotechnics
PVT	Preflight Verification Test Pressure, Volume, and Temperature Private Pyrotechnic Verification Test
PVWA	Planned Value of Work Accomplished
PVWS	Planned Value of Work Scheduled
PW	Pulse Width
PWA	Private Write Area Product Work Authorization
PWB	Printed Wire Board
PWBS	Program Work Breakdown Structure
PWM	Pulse-Width Modulation
PWMD	Printed Wiring Master Drawing
PWR	Power
PWS	Pricing Work Statement
PY	Program Year
PYRO	Pyrotechnics

Q

Q	Dynamic Pressure
Q Alpha	Pitch Dynamic Pressure
Q Beta	Yaw Dynamic Pressure
QA	Quality Assurance
QAC	Quality Assurance Chart
QACAD	Quality Assurance Corrective Action Document
QAM	Quality Assurance Manual
QAP	Quality Assurance Procedure
QAR	Quality Assurance Responsible/Witness
QAVT	Qualification Acceptance Vibration Test
QC	Quality Control
QCDR	Quality Control Deficiency Report
QCOP	Quality Control Operating Procedure
QD	Quick Disconnect
QDS	Quality Data System
QE	Quality Engineer
QEC	Quick Engine Change
QGS	Quantity Gauging System
QL	Quick Look
QLDS	Quick Look Data Station
QLS	Quick Look Station
QM	Qualification Motor
QPL	Qualified Parts List
	Qualified Products List
QPR	Quarterly Progress Report
QPRD	Quality Planning Requirements Document
QPS	Quality Planning Specification
QPSK	Quadrature Phase Shift Key
QRE	Quick-Reaction Estimate
QRI	Quick-Reaction Integration
QRIA	Quick-Reaction Integration Activity
QRS	Quick-Reaction Sortie
QRSL	Quick-Reaction Space Laboratory
QSA	Qualification Site Approval
QSGVT	Quarter Scale Ground Vibration Test
QSL	Qualified Source List
QSM	Quarter Scale Model
QSMVT	Quarter Scale Model Vibration Testing
QSS	Quindar Scanning System
QT	Qualification Test
QTP	Qualification Test Plan
QTR	Qualification Test Report
	Quarter
QTY	Quantity
QUAD	Quadrangle, Quadrant, Quadrature
QUADS	Quality Achievement Data System
QUAL	Qualification, Qualified
	Quality
QUI	Quito, Ecuador (STDN)

QUIC	Quality Data Information and Control
QUP	Quality Unit Pack
QVT	Qualified Verification Testing
QVVT	Qualified Verification Vibration Testing

R

R	Gas Constant
	Radius
	Range
	Rankine
	Ratio
	Receive
	Reliability
	Replace
	Resistance
	Right
	Roentgen
R&CC	Recorder & Communication Control
R&D	Research and Development
R&DO	Research and Development Operations (MSFC)
R&P	Reserve and Process
R&PM	Research & Program Management
R&QA	Reliability & Quality Assurance
R&R	Remove & Replace
R-T	Resistance Test
R/A	Radar Altimeter
R/I	Receiving Inspection
R/L	Remote/Local
R/S	Range Safety
	Redundant Set
R/T	Real Time
	Receiver/Transmitter
R/W	Runway
	Read/Write
RA	Radar Altimeter (R/A is preferred)
	Radium**
	Range Area
RAAB	Remote Amplifier and Adaption Box
RAC	Reliability Action Center
RACS	Remote Automatic Calibration System
RAD	Radar
	Radian
	Radiation Dosage
RADAR	Radio Detecting And Ranging
RADCC	Radiation Control Center
RAF	Requirements Analysis Form
RAHF	Research Animal Holding Facility
RAI	Roll Attitude Indicator
RAL	Responsibility Assignment List
RALPH	Reduction & Acquisition of Lunar Pulse Heights
RALT	Radar Altimeter

**See note 2, page ii

RAM	Radar Absorbtion Material Random Access Memory Responsibility Assignment Matrix
RAMA	Recap And Movement Authorization
RANC	Radar Absorption Noise & Clutter
RANN	Research Applied to National Needs
RAPCON	Radar Approach and Control
RAPS	Right AFT Propulsion System
RAS	Requirements Allocation Sheet
RATCC	Radar Air Traffic Control Center
RAU	Remote Acquisition Unit
RAUIS	Remote Acquisition Unit Interconnecting Station
RAX	Remote Access Computing System Remote Access Terminal
RBC	Rotating Beam Celiometer
RBMT	Retrospective Bibliographies on Magnetic Tape
RBN	Radio Beacon
RC	Range Command Recurring Cost Resistance-Capacitance Rotation Control
RCA	Radio Corporation of America Remote Control Amplifier
RCC	Range Control Center Reinforced Carbon - Carbon Reusable Carbon - Carbon
RCCB	Remote Control Circuit Breaker
RCCP	Recorder and Communications Control Panel
RCD	Record
RCDR	Recorder
RCN	Requirements Change Notice
RCP	Radiation Constraints Panel Right Circular Polarizer
RCPT	Receipt Receptacle
RCR	Retrofit Configuration Record
RCS	Reaction Control System (Subsystem)
RCSC	Reaction Control Subsystem Controller
RCV	Receive
RCVR	Receiver
RCVS	Remote Control Video Switch
RCVY	Recovery
RD	Reference Designator Requirements Document Round
RDA	Remote Data Access Resident Data Area
RDC	Reference Designator Code Request for Document Change
RDD	Requirements Definition Document

RDF	Radio Direction Finder
	Resource Data File
RDOC	Reference Designation Overflow Code
RDP	Requirements Data Plan
	Requirements Development Plan
RDR	Raw Data Recorder
RDS	Rocketdyne Digital Simulator
RDT&E	Research, Development, Test, and Evaluation
RDW	Response Data Word
RDX	Cyclotrimethylenetrinitramine
RE	Responsible Engineer
RE&T	Research Engineering & Test
REC	Receive
	Record (RCD is preferred)
RECERT	Recertification
RECON	Remote Console
RECONFIG	Reconfiguration
RECP	Request for Engineering Change Proposal
RECS	Representative Shuttle Environmental Control System
RECT	Rectifier
RECV	Receive
RECVR	Receiver
REF	Reference
	Refurbish
	Refurbishment
REFURB	Refurbish
	Refurbishment
REG	Regulator (Regulate)
REI	Runway End Identification
REI-M	REI-Mollite
REIL	Runway End Identification Lights
REJ	Reject
REL	Relative
	Release
REM	Remove
	Roentgen Equivalent Man
REND	Rendezvous
REPL	Replace
REQ	Request
	Require
REQD	Required
REQMTS	Requirements (Rqmts is preferred)
RESP	Responsibility
RESVR	Reservoir
RETS	Reconfigurable Electrical Test Stand
REV	Reverse
	Review
	Revision
	Revolution
RF	Radio Frequency
RF-TK	Radio Frequency Tracking

RFA	Request For Action
	RF Authorization (Frequency)
RFB	Ready For Baseline
	Request For Bid
RFC	Radio Frequency Charts
	Request For Change
RFCP	Request for Computer Program
RFD	Requirements Formulation Document
RFE	Request For Estimate
RFEI	Request for Engineering Information
RFI	Radio Frequency Interference
	Remote Facility Inquiry
	Remote File Inquiry
	Request For Information
RFO	Request For Order
RFP	Request For Proposal
RFPA	Request For Proposal Authorization
RFQ	Request For Quotation
RFT	Ready for Training
RFW	Request For Waiver (Deviation)
RG	Radio Guide
RG A	Rate Gyro Assembly
RG P	Rate Gyro Package
RH	Relative Humidity
	Right Hand
RHC	Rotation Hand Controller
RHCP	Right Hand Circular Polarization (Polarized)
RHEB	Right Hand Equipment Bay
RHL	Residual Hazards List
RHS	Rocketdyne Hybrid Simulator
RHT	Radiant Heat Temperature
RHU	Radioisotope Heater Unit
RI	Rockwell International
RIB	Recoverable Item Breakdown
RIC	Resistance Inductance and Capacitance
RID	Review Item Disposition
RIDI	Receiving Inspection Detail Instruction
RIF	Relative Importance Factor
RIG	Rate Integration Gyro
RIGI	Receiving Inspection General Instruction
RIL	Recoverable Items List
	Repairable Item List
	Reparable Item List
RIR	Reportable Item Report
RIS	Reporting Identification Symbols
RISKAC	Risk Acceptance
RIT	Request for Interface Tool
RIU	Remote Interface Unit
RIV	Recirculation Isolation Valve
RJ/EC	Reaction Jet/Engine Control
RJC	Reaction Jet Control
RJD	Reaction Jet Device

RJDA	Reaction Jet Driver Aft
RJDF	Reaction Jet Driver Forward
RJEC	Reaction Jet Engine Control
RJOD	Reaction Jet OMS Driver
RLC	Remote Load Controller
RLEO	Request Liaison Engineering Order
RM	Redundancy Management
	Reference Mission
	Rescue Module
	Remote Manipulator
RMA	Remote Manipulator Arm
RMRS	Repeatable Maintenance and Recall System
RMS	Radian Means Per Second
	Random Motion Simulator
	Remote Manipulator System (Subsystem)
	Root-Mean-Square
RMSVP	Remote Manipulator Subsystem Verif. Plan
RMT	Remote
RN	Reynolds Number
ROC	Record Of Comments
	Request Of Change
ROM	Read-Only Memory
	Rough Order of Magnitude
ROS	Regulated Oxygen System
	Removable Overhead Structure
ROT	Remaining Operating Time
	Rotate
ROTI	Recording Optical Tracking Instrument
RP	Relative Pressure
	Repair Period
	Rocket Propellant
RPA	Record and Playback Assembly
	Request for Procurement Action (Authorization)
RPC	Remote Power Controller
RPE	Reliability Project Engineer
RPIE	Real Property Installed Equipment
RPL	Rated Power Level
RPM	Revolutions Per Minute
RPO	Radiation Protection Officer
RPP	Reinforced Pyrolytic Plastic
RPS	Record and Playback System (Subsystem)
	Revolutions Per Second
RPT	Resident Provisioning Team
RPTA	Rudder Pedal Transducer Assembly
RPV	Remotely Piloted Vehicle
RQMT	Requirement
RQMTS	Requirements
RR	Rendezvous Radar
	Requirements Review
RRL	Rudder Reference Line
RRP	Rudder Reference Plane
RRT	Rendezvous Radar Transponder

RS	Rawinsonde Redundant Set Refurbishment Spare Right Side
RSA	Reference Satellite A
RS&S	Receiving, Shipping & Storage
RSD	Requirements & Specifications Document
RSF	Receiving-Safing Facility Refurbishment & Subassembly Facilities
RSI	Reusable Surface Insulation
RSL	Resource Support List
RSO	Radiological Safety Office
RSPL	Recommended Spare Parts List
RSS	Range Safety System Reactants Supply System Root Sum Square Rotating Service Structure
RSSPO	Resident Space Shuttle Project Office
RSU	Remote Service Unit
RSYS	Responsible System
RT	Real Time (R/T is preferred) Reference Trajectory Right
RTAC	Research & Technology Advisory Committee
RTB	Resistance Temperature Bulb
RTC	Real-Time Command Room Temperature Cure
RTCC	Real-Time Computer Center (NASA) Real-Time Computer Command (Uplink)
RTCE	Rotation/Translation Control Electronics
RTCP	Real-Time Communications Processor
RTCS	Real-Time Computer System
RTD	Resistance Temperature Device
RTE	Responsible Test Engineer
RTG	Radioisotope Thermal Generation Radioisotope Thermoelectric Generator
RTHC	Rotation-Translation Hand Controller
RTHS	Real-Time Hybrid System
RTIF	Real-Time Interface
RTLS	Return to Launch Site
RTO	Responsible Test Organization
RTOP	Research and Technology Objectives and Plans
RTS	Real Time Supply Remote Tracking Station
RTSF	Real-Time Simulation Facility
RTU	Remote Terminal Unit
RTV	Room-Temperature Vulcanized
RUPT	Interrupt Rupture
RUT	Resource Utilization Time

RV	Recovery Vehicle
	Recovery Vessel
	Reentry Vehicle
	Relief Valve
	Retrieval Vessel
RVCF	Remote Vehicle Checkout Facility
RVDT	Rotary Variable Differential Transducer
	Rotary Variable Differential Transformer
RVN	Requirements Verification Network
RVR	Runway Visual Range
RVS	Reverse
RYD	Real Year Dollars
RZ	Return-to-Zero

(S)	Safe (Task Classification)
S	Second
	Side
	Stere
S&A	Safe & Arm (Device)
	Science & Application
S*	Second (Astronomical Tables)
S-BD	S-Band
S-N	Stress Number
S/A	Safe and Arm
	Scheduled/Actual
	Site Activation
	Spacecraft Adapter
	Subassembly
S/AC	Stabilization/Attitude Control
S/C	Sensor/Controller
	Signal Conditioner
	Software Contractor
	Spacecraft
	Splitter/Combiner
	Stripchart (Recorder)
	Subcontractor
S/F	Safety Factor
	Single Flow
S/G	Strain Gage
S/L	Shop/Laboratory
S/M	Scheduled Maintenance
	Service/Maintenance
	Structural/Mechanical
S/N	Serial Number
	Signal-to-Noise Ratio
S/O	Shutoff
	Switchover
S/P	Serial to Parallel
	Signal Processor
S/R	Send and Receive
	Stimulus/Response
S/S	Samples-per-Second
	Single Sideband
	Space Shuttle
S/Sys	Subsystem
S/U	Set Up
S/V	Space Vehicle
S/W	Software
SA	Safing Area
	Shaft Angle
	Subaccount
	Supplemental Agreement
SAAC	Schedule Allocation And Control

* Only exception to note 1

SAALC	San Antonio Air Logistics Center
SAAM	Special Air Force Airlift Mission
SAAMA	San Antonio Air Material Area
SAAS	Shuttle Aerosurface Actuator Simulation
SAB	Spacecraft Assembly Building
	Storage and Assembly Building
SAC	Strategic Air Command (USAF)
	Support Action Center
SACS	Software Avionics Command Support
SAD	Shuttle Authorized Document
	System Allocation Document
SAE	Society of Automotive Engineers
SAEF	Spacecraft Assembly & Encapsulation Facility
SAFE	San Andreas Fault Experiment
SAGE	Stratospheric Aerosol Gas Experiment
SAIL	Shuttle Avionics Integration Laboratory
SAL	Scientific Airlock
	Shuttle Avionics Laboratory
SALC	Sacramento Air Logistics Center
SAM	Shuttle Attachment Manipulator
	System Activation and Monitoring
SAMP	Shuttle Automated Mass Properties
SAMS	Shuttle Attachment Manipulator System
SAMSO	Space And Missile Systems Organization (USAF)
SAMSOR	SAMSO Regulation (Now SDR)
SAMTEC	Space And Missile Test Center (VAFB, CA)
SAMTECM	Space And Missile Test Center Manual
SAMTO	Space and Missile Test Organization (VAFB)
SAND	Site Activation Need Date
SAP	Strain Arrestor Plate
SAR	Safety Analysis Report
	Search And Rescue
SARP	Safety Analysis Report for Packaging
	Shuttle Astronaut Recruitment Program
SART	Stimuli Analog Refresh Table
SAS	Stability Augmentation Subsystem
SAT	Saturated
SATAF	Shuttle Activation Task Force
SATO	Shuttle Attached Teleoperator
	Supply And Transportation Operations
SATS	Shuttle Avionics Test System
	Small Applications Technology Satellite
SAU	Strap Around Unit
SB	Space Base
	Synchronization Base
SBA	Small Business Administration
	Structure Borne Acoustic
SBCR	Stock Balance and Consumption Report
SBD	Schematic Block Diagram
SBHC	Speed Brake Hand Controller
SBP	Sonic Boom Panel
SBS	Satellite Business System

SC	Scale Service Charge Signal Conditioner (S/C is preferred) Statement of Capability Support Contractor
SCA	Schedule Change Authorization Shuttle Carrier Aircraft Simulation Control Area Sneak Circuit Analysis
SCAN	Selected Current Aerospace Notices
SCAPE	Self-Contained Atmospheric Protective Ensemble
SCARS	Serialized Control and Reporting System Serialized Control and Record System Sneak Circuit Analysis Report Summary
SCAT	Storage, Checkout, And Transport
SCB	Schedule Change Board Selection Control Board Selector Control Box Software Control Board Specification Control Board
SCBD	Seller's Approved Configuration Baseline Document
SCC	Safety Control Center Standard Cubic Centimeters
SCCB	Site Configuration Control Board
SCCH	Standard Cubic Centimeters per Hour
SCCM	Standard Cubic Centimeters per Minute
SCCS	Standard Cubic Centimeters per Second
SCD	Source Control Document Source Control Drawing Specification Control Document Specification Control Drawing
SCDA	Safing, Cooldown, and Decontamination Area
SCDP	Simulation Control Data Package
SCDR	Seller Critical Design Review Shuttle Critical Design Review Software Critical Design Review Subcontractor Critical Design Review
SCDU	Signal Conditioning & Display Unit
SCE	Signal Conditioning Equipment
SCF	Safing and Deservicing Facility Satellite Control Facility Sequenced Compatibility Firing Standard Charge Factor Standard Cubic Feet Statistical Collection File Sunnyvale Control Facility
SCFH	Standard Cubic Feet per Hour
SCFM	Standard Cubic Feet per Minute
SCFS	Standard Cubic Feet per Second
SCHED	Scheduled, Scheduling
SCHEM	Schematics
SCI	Switch Closure In

SCIM	Standard Cubic Inches per Minute
SCIS	Standard Cubic Inches per Second
SCIT	Standard Change Integration and Tracking
SCL	Secondary Coolant Loop
	Specification Change Log
SCLM	Stability, Control, and Load Maneuvers
SCM	Subsystem Configuration Management
SCMB	Development Configuration Management Board
SCMP	System Contractor Management Plan
SCN	Specification Change Notice
SCNP	Preliminary Specification Change Notice
SCO	Start Checkout
	Subcarrier Oscillator
	Switch Closure Out
SCOE	Special Checkout Equipment
SCOS	Subsystem Computer Operating System
SCP	Scanner Control Power
	Specific Candle Power
SCR	Schedule Change Request
	Sneak Circuit Report
	Software Change Request
	Strip Chart Recorders
SCRG	System Change Review Group (MSFC)
SCRL	Station Configuration Requirement List
SCRS	Strip Chart Recording System
SCS	Stabilization and Control Subsystem
SCT	Scanning Telescope
SCU	Secondary Control Unit
	Sequence Control Unit
	Signal Conditioning Unit
	Signal Control Unit
SD	Smoke Detector
	Space Division (AFSC)
	Space Division (Rockwell)
	Spares Disposition
	Specification Document
	Supplier Documentation
SD/FS	Smoke Detection/Fire Suppression
SD/YVW	SD/Launch Base Division
SDA	Source Data Automation
SDAF	Solid Rocket Booster Disassembly Facility
SDB	Shallow-Draft Barge
	Shallow Draft Board
SDC	Software Development Computer
	Spares Disposition Code
SDCL	Supplier Documentation Checklist
SDCP	Summary Development Cost Plan
SDCS	SAIL Data Communications System
SDD	Shuttle Design Directive
	Software Description Document
	Software Design Document
SDE	Space Division Evaluator

SDF	Safing and Deservicing Facility Single Degree of Freedom System Development Facility (Breadboard)
SDG	Supplier Documentation Group
SDH	Software Development Handbook System Development Handbook
SDI	Selective Dissemination of Information
SDIF	Software Development & Integration Facility
SDL	Software Development Laboratory Standard Distribution List
SDM	System Definition Manual
SDN	Software Development Note
SDP	Shuttle Data Processor Software Development Plan Supplier Data Package
SDPC	Shuttle Data Processing Complex
SDR	Software Design Requirements Space Division Regulation Spacelab Disposition Record (ESA) System Design Review
SDRB	Software Design Review Board
SDRD	Supplier Documentation Review Board Supplier Data Requirements Description Supplier Documentation Review Data
SDRL	Supplier Data Requirements List
SDS	Shuttle Dynamic Simulation Software Design Specification
SDSS	Space Division Shuttle Simulator
SDT	Shuttle Data Tape Structural Dynamic Test
SDTA	Structural Dynamic Test Article
SDVF	Software Development & Verification Facilities
SE	Support Equipment System Element
SE&I	Systems Engineering and Integration
SE/FAC	Support Equipment/Facility
SEA	Scanning Electrostatic Analysis Silicon Elastimeter Ablator
SEACF	Support Equipment Assembly & Checkout Facility
SEADS	Shuttle Entry Air Data System
SEAIID	Support Equipment Abbreviated Items Description
SEAPG	Support Equipment Acquisition Planning Group
SEB	Source Evaluation Board
SEC	Second Secondary Sequential Events Controller Source Evaluation Committee
SECS	Shuttle Events Control Subsystem
SEG	System Engineering Groundrule
SEI	Support Equipment Installation
SEICO	Support Equipment Installation and Checkout
SEL	Selector

SEM	Scanning Electron Microscope Seller's Engineering Memo Space Environment Monitoring System Engineering Management
SEMS	Space Environment Monitor System
SEND	Shared Equipment Need Date
SEO	Special Engineering Order
SEOS	Synchronous Earth Observation Satellite
SEP	Separation Support Equipment Package
SEPAR	Shuttle Electrical Power Analysis Report
SEPS	Solar Electric Propulsion System
SEQ	Sequence, Sequencer
SER	Serial
SERB	Shuttle Engineering Review Board Systems Engineering Review Board
SERS	Shuttle Equipment Record System
SES	Shuttle Engineering Simulation Special Emphasis Study
SESL	Space Environmental Simulation Laboratory
SEUL	Support Equipment Utilization List
SF	Safety Factor Safety, R&QA and Protective Services (KSC Directorate) Square Feet Static Firing Subcontractor Furnished
SFACI	Software Flight Article Configuration Inspection
SFC	Specific Fuel Consumption
SFCS	Survival Flight Control System
SFD	Crossfeed
SFDT	Site Format Dump Tape
SFL	Secondary Freon Loop
SFOM	Shuttle Flight Operations Manual
SFOP	Safety Operating Procedure (KSC)
SFP	Single Failure Point
SFPA	Single Failure Point Analysis
SFPPL	Short Form Provisioning Parts List
SFPS	Single Failure Point Summary
SFSS	Satellite Field Service Station
SFT	Simulated Flight Test Static Firing Test
SFTA	Structural Fatigue Test Article
SFTF	Static Firing Test Facility
SFTWE	Software
SFU	Standard Firing Unit
SGC	Stablized Ground Cloud
SGLS	Space Ground Link Station
SGOS	Shuttle Ground Operations Simulation Shuttle Ground Operations Simulator
SGSC	Strain Gage Signal Conditioner

SH2	Supercritical Hydrogen*
SHA	Sidereal Hour Angle
	System Hazard Analyses
SHAG	Simplified High Accuracy Guidance (Honeywell)
SHERB	Sandia Human Error Rate Bank
SHF	Super High Frequency
SHLB	Simulation Hardware Load Boxes
SHP	Shaft Horsepower
SHRD	Supplemental Heat Rejection Devices
SI	Center Support Operations (KSC Directorate)
	International System of Units (ISU preferred)
	Scientific Instrument
SIA	Software Impact Assessment
SID	Shuttle Integration Device
	Simulator Interface Devices
	Standard Interface Document
	System Interface Document
SIE	Shuttle Interface Equipment
SIES	Supervision Inspection, Engineering and Services
SIG	Signal
SIL	Silver
	Sound Interference Level
	Systems Integration Laboratory
SILTS	Shuttle Infrared Leaside Temperature Sensing
SIM	Scientific Instrumentation Module
	Simulate, Simulation
SIMAS	Shuttle Info. Management Accountability System
SIMFAC	Simulation Facility
SIMR	Systems Integration Management Review
SIMS	Shuttle Imaging Microwave System
	Shuttle Inventory Management System
SIN	Sine
SIO	Serial Input/Output
	Systems Integration Office
SIP	Scientific Instrument Package
	Separation Instrumentation Package
	Strain Isolator Pad
SIPS	Small Instrument Pointing System
SIR	System Interface Requirements
	Systems Integration Review
SIR-A	Shuttle Imaging Radar
SIRR	Software Integration Readiness Review
SIS	Shuttle Information System
	Shuttle Interface Simulator
	Simulator Interface System
	Simulator Interface Subsystem
	Software Implementation Specification
	Software Integrated Schedule
	Standard Interface Specification
	Systems Integration Schedule

*See note 1, page ii

SIT	Shuttle Integrated Test Shuttle Interface Test Situation Software Integrated Test SSV Integrated Test
SIVE	Shuttle Interface Verification Equipment
SL	Sea Level Shelf Life Sound Level Spacelab
SL&I	System Load and Initialization
SL-SS	Spacelab Subsystem
SL-SSS	Spacelab Subsystem Segment
SLA	ERNO Spacelab Product Assurance Department
SLAC	Stanford Linear Accelerator Center
SLAHTS	Stowage List And Hardware Tracking System
SLAK	Spacelab Late Access Kit
SLAM	Side Load Arrest Mechanism
SLAR	Side Looking Airborne Radar
SLC	ERNO Spacelab Project Control Space Launch Complex
SLCA	ERNO Spacelab Contract Administration
SLCC	ERNO Spacelab Configuration Management
SLCL	Shop/Lab Configuration Layout
SLD	Stiff-Leg Derrick
SLE	ERNO Spacelab Engineering
SLEMU	Spacelab Engineering Model Unit
SLF	Shuttle Landing Facility (OLF)
SLI	ERNO Spacelab Integration & Test
SLL	Shelf Life Limit
SLN	ERNO Spacelab Payload
SLO	ERNO Spacelab Operations
SLP	ERNO Spacelab Program Office
SLPB	Spacelab Program Board
SLS	Secondary Landing Site Sortie Lab Simulator Spacelab Simulator Statement Level Simulator
SLT	ERNO Spacelab Technology
SM	Short Module Shuttle Management (KSC) Software Manual Stable Member Support Module Systems Management
SM/PM	System Management/Performance Monitor
SMAB	Solid Motor Assembly Building
SMART	Shuttle Meeting Action - Item Review Tracking
SMC	Scientific Manpower Commission
SMCC	Shuttle Mission Control Center
SMCH	Standard Mixed Cargo Harness
SMD	Special Measuring Device

SMDC	Shielded Mild Detonating Cord
SMES	Shuttle Mission Engineering Simulator
	Shuttle Mission Evaluation Simulation
	Superconducting Magnetic Energy Storage
SMIIR	Shuttle Multispectral Infrared Radiometer
	Solar Maximum Mission
SMM	Subsystem Measurement Management
	Specimen Mass Measurement Device
SMMD	Structural Materials Property Manual
SMPM	Shuttle Main Propulsion Test Requirement Board
SMPTRB	Structure Module Qualification Test
SMQ	Source, Maintenance, and Recoverability (Code)
SMR	Spin Motor Rotational Detector
SMRD	Spin Motor Run Discrete
	Separation Mechanism Subsystem
SMS	Shuttle Mission Simulator
	Synchronous Meteorological Satellite
	Shuttle Mission Simulator Computer Complex System
SMSCC	Standard Manned Space Flight Initiator (See NSI-I)
SMSI	Shuttle Model Test and Analysis System
SMTAS	Soft Mockup
SMU	Shuttle Master Verification Plan
SMVP	Shuttle Master Verification Requirements Document
SMVRD	Standard Materials Worksheet
SMW	System Noise Figure
SNF	Signal to Noise Ratio
SNR	Space Nuclear Systems Office
SNSO	Shuttle Orbital Applications and Requirements
SOAR	Shuttle Operation Automated Reporting System
SOARS	Support Operation Automated Training System
SOATS	System Option Controller
SOC	Shuttle Operational Capability Assessment Report
SOCAR	Satellite Operations Control Center
SOCC	Spacelab Orbiter Common Hardware
SOCH	Shuttle Operational Data Book
SODB	Start Of Data Block
	Skylab Orbit-Deorbit System
SODS	Safety of Flight
SOF	Spray-On Foam Insulation
SOFI	Space Operations and Flight Techniques
SOFT	Start Of Heading
SOH	Spacelab/Orbiter Interface Simulator
SOIS	Solenoid
SOL	Ship Operations Manager (NASA)
SOM	Spares Optimization Model
	Standard Operating Manual
	Start Of Minor Frame
SOMF	Shuttle Orbiter Medical System
SOMS	

SOP Secondary Oxygen Pack
 Spacelab Opportunity Payload
 Standard Operating Procedure
 Subsystem Operating Procedure
 Systems Operation Plan
 SOR Specification Operational Requirement
 SORPTR South Repeater
 SORTIE Short Term Mission
 SOS Source Of Supply
 SOT Strap-On Tank
 SOV Shut Off Valve
 Solenoid Operated Valve
 SOW Statement Of Work
 Subdivision Of Work
 SOX Supercritical Oxygen
 SP Shuttle Projects Office (KSC)
 Single Pole
 Solar Physics
 Standard or Peculiar
 SP-AF Air Force Support Office (KSC)
 SP-FGS Flight & Ground Systems Office (KSC)
 SP-LMO Logistics Management Office (KSC)
 SP-OPI Operations Planning and Integration Office (KSC)
 SP-PAI Project Assessment and Integration Staff (KSC)
 SP-PCO Project Control Office (KSC)
 SP-PMS Performance Management Systems Office (KSC)
 SPA Servo Power Amplifier
 Shared Peripheral Area
 Signal Processor Assembly
 Space Processing Application
 SPAD Subsystem Positioning Aid Device
 SPADS Shuttle Problem Action Data System
 Shuttle Problem Analysis Data System
 SPAH Spacelab Payload Accommodations Handbook
 SPART Space Research and Technology
 SPAS Shuttle Pallet Satellite
 SPBK Speed Brake
 SPC Shipping and Packing Cost
 Starting Point Code
 Synoptic Properties Code
 SPCC STS Processing Control Center
 SPD Standard Practice Directive
 SPDR Software Preliminary Design Review
 SPE Static Phase Error
 SPEC Specialist Function
 Specification
 SPECT Spectrometer
 SPF Software Production Facility
 Spacelab Processing Facility
 SPFA Single Point Failure Analysis
 SPFP Single Point Failure Potential

SPG	Signal Point Ground Single Point Ground
SPI	Surface Position Indicator
SPIAP	Shuttle/Payload Integration Activities Plan
SPICE	Spacelab Payload Integration & Coordination in Europe
SPIDF	Support Planning Identification File
SPIDPO	Shuttle PL Integration and Development Program Office (JSC)
SPII	Shuttle Program Implementation Instruction
SPIMS	Shuttle Program Information Management System
SPL	Serialized Parts List Sound Pressure Level System Programming Language
SPM	Subsystem Project Manager
SPMS	Special Purpose Manipulator System
SPN	Shuttle Project Notice (KSC)
SPO	Spare Parts Order Shuttle Project Office System Program Office
SPOC	Shuttle Payload Operations Contractor
SPP	Simulation Planning Panel Solar Physics Payloads
SPPIL	Shuttle Preferred Pyrotechnic Items List
SPLL	Spare Parts Provisioning List
SPPP	Spacelab Payloads Processing Project
SPR	Software Problem Report Subcontractor Performance Review
SPRAG	STS Payload Requirements & Analysis Group
SPS	Samples Per Second Secondary Propulsion System Service Propulsion Subsystem Shuttle Procedures Simulator Solar Power Satellite Statement of Prior Submission
SPT	Support
SPTD	Supplemental Provisioning Technical Documentation
SPVPF	Shuttle Payload Vertical Processing Facility
SQ FT	Square Feet
SR	Shift Register Standard Repair Statement of Requirement Status Register Status Report Status Review Support Request
SR&Q	Safety, Reliability, and Quality
SR&QA	Safety, Reliability & Quality Assurance
SRA	Spin Reference Axis Support Requirements Analysis
SRB	Solid Rocket Booster
SRBAB	SRB Assembly Building

SRBDF	SRB Disassembly Facility
SRBPF	Solid Rocket Booster Processing Facility
SRCB	Software Requirements Change Board
	Software Requirements Control Board
SRCBD	Software Requirements Change Board Directive
	Software Requirements Control Board Directive
SRD	Shuttle Requirements Definition
	Shuttle Requirements Document
	Systems Requirements Document
SRDH	System Requirements Definition Handbook
SRF	Shuttle Refurbishment Facility
SRH	Subsystems Requirements Handbook
SRM	Solid Rocket Motor
	Specification Requirements Manual
	Standard Reference Material
SRMC	Stimulus/Response Measurements Catalog
SRN	Software Release Notice
SRO	Supervisor Range Operations
SRR	Site Readiness Review
	Software Requirements Review
	System Requirements Review
SRS	Software Requirements Specification
	Specification Revision Sheet
	Support Requirements System
SRSF	SRB Receiving and Subassembly Facility
	SRB Refurbishment and Subassembly Facility
SRSR	Schedule and Resources Status Report
SRSS	Shuttle Range Safety System
SRT	Shuttle Requirements Traceability
	Specification Requirements Table
	Supporting Research and Technology
SRU	Shop-Replaceable Unit
	Shop Replacement Unit
	Space Replaceable Units
SS	Single Sideband
	Single String
	Space Shuttle
	Space Station
	Station Set
	System Specification
SS&A	Space Systems and Applications
SSA	S-Band Single Access
	Shuttle Simulation Aircraft
SSA I/O	GCOS Program Element Name
SSAT	Shuttle Service & Access Tower
	Space Shuttle Access Tower (now FSS)
SSB	Single Sideband
	Source Selection Board
SSBC	Summary Sheet Bar Chart

SSC	Shuttle System Contractor Solid-Solution Cermet Subsystem Computer Subsystem Sequence Controller
SSCA	Surface Sampler Control Assembly
SSCC	Support Services Control Center
SSCHS	Space Shuttle Cargo Handling System
SSCL	Shuttle System Commonality List
SSCP	Small Self-Contained Payloads
SSCSP	Space Shuttle Crew Safety Panel
SSDH	Subsystem Data Handbook
SSE	Space Shuttle Engines Subsystem Element Subsystem Support Equipment
SSEOS	Space Shuttle Engineering and Operations Support
SSF	SRB Storage Facility
SSFSS	Space Shuttle Flight & Ground System Specification
SSFL	Santa Susana Field Laboratory
SSHB	Station Set Handbook
SSI	Significant Structural Item
SSIBD	Shuttle System Interface Block Diagram
SSID	Shuttle Stowage Installation Drawing
SSITP	Shuttle System Integrated Test Plan
SSM	Subsystem Manager Support System Module
SSMB	Space Shuttle Maintenance Baseline
SSME	Space Shuttle Main Engine
SSMEC	Space Shuttle Main Engine Controller
SSMECA	SSME Controller Assembly Space Shuttle Main Engine Controller Assembly
SSO	Safety Signification Operation Source Selection Official Space Shuttle Orbiter Subsystem Operation (in Spacelab)
SSOP	Spacelab System Operating Procedures
SSP	Small Sortie Payload Space Shuttle Program
SSPD	Shuttle System Payload Data Shuttle System Payload Definition (Study)
SSPDA	Space Shuttle Payload Data Activity
SSPDB	Subsystem Power Distribution Box
SSPDS	Space Shuttle Payload Data Study
SSPGSE	Space Shuttle Program Ground Support Equipment
SSPM	Space Shuttle Program Manager
SSPO	Space Shuttle Program Office
SSPP	System Safety Program Plan
SSPPSG	Space Shuttle Payload Planning Steering Group
SSPRO	Space Shuttle Program Resident Office
SSPS	Space Shuttle Program Schedule
SSPTF	Santa Susana Propulsion Test Facility (See SSFL)

SSR	Shop Support Request Station Set Requirements System Requirements Review
SSRD	Station Set Requirements Documents
SSRN	System Software Reference Number
SSRR	Station Set Requirements Review
SSS	Sound Suppression System Space Shuttle System Stage Separation Subsystem Station Set Specification Subsystem Segment
SSSS	Space Shuttle System Specification
SST	Single System Trainer Structural Static Test Subsystem Terminal on Spacelab
SSTC	Space Shuttle Test Conductor
SSUS	Spinning Solid Upper Stage
SSUS-A	SSUS for Atlas-Centaur Class Spacecraft
SSUS-D	SSUS for Delta Class Spacecraft
SSUSP	Spinning Solid Upper Stage Project
SSV	Space Shuttle Vehicle
ST	Sequential Timer Simplification Task Space Telescope Spacelab Technology Special Tooling Star Tracker Structural
STA	Shuttle Training Aircraft Static Test Article Station Structural Test Article
STAB	Stabilizer
STADAC	Station Data Acquisition And Control
STADAN	Space Tracking & Data Acquisition Network
STAG	Shuttle Turnaround Analysis Group
STAR	Scientific And Technical Report Shuttle Turnaround Analysis Report
STARR	Schedule, Technical, And Resources Report
STAT	Statistics
STC	Satellite Test Center Standard Test Configuration
STCP	Systems Test Complex
STDP	Short Term Cost Plan
STD	Shuttle Test Director Standard
STDL	Standard Distribution List (letter denoting which list follows)
STDN	Space Tracking and Data Network Spaceflight Tracking and Data Network
STE	Special Test Equipment System Test Engineer

STF	Spin Test Facility (See DSTF) Structural Fatigue Test
STG	Stage
STIL	Software Test and Integration Laboratory
STIRD	SAIL Test Implementation/Requirements Document
STLOS	Star Line of Sight
STM	Signal Termination Module Static Test Model
STN	Software Trouble Note
STP	Shuttle Technology Panel Space Technology Payload Space Test Program Subsystem Test Plan
STPH	Static Phase Error
STR	System Test Review Structure
STRG	Steering String
STRL	Structural
STRUC	Structure
STS	Shuttle Test Station Space Transportation System
STSG	Shuttle Test Group
STSOPO	Shuttle Transportation Systems Operations Program Office (JSC)
STSR	System Test Summary Report
STT	Spacelab Transfer Tunnel
STU	Special Test Unit
SU	Support Unit
SUMC	Space Ultrareliable Modular Computer
SUMS	Shuttle Upper Atmosphere Mass Spectrometer
SUP	Supply Support
SUPSALV	Supervisor of Salvage (US Navy)
SUPT	Support
SUPV	Supervisor
SURE	Shuttle Users Review and Evaluation
SV	Safety Valve Shuttle Vehicle Solenoid Valve Space Vehicle
SVA&C	Shuttle Vehicle Assembly and Checkout
SVAB	Shuttle Vehicle Assembly Building
SVAC	Shuttle Vehicle Assembly and Checkout (Facility)
SVAFB	South Vandenberg Air Force Base
SVB	Shuttle Vehicle Booster
SVC	Supervisor Call
SVDS	Space Vehicle Dynamic Simulator
SVRR	Software Verification Readiness Review

SW	Short Wave Solar Wing Switcher (Switch) Software
SWA	Support Work Authorization
SWAA	Spacelab Window Adapter Assembly
SWAD	Subdivision of Work Authorization Document
SWAT	Stress Wave Analysis Technique
SWOB	Salaries, Wages, Overhead and Benefits
SWP	Safe Working Pressure
SWR	Standing Wave Ratio
SXT	Sextant
SY	System
SYM	Symbol
SYMM	Symmetrical
SYN	Synchronous Synthetic
SYNC	Synchronize
SYNCOM	Hughes Spin Stabilized Spacecraft
SYS	System
SYSTRAN	Systems Analysis Translator

T

T	Talk/Monitor
	Temperature
	Test
	Time
T&CD	Timing and Countdown
T&CP	Test and Checkout Procedure
T&E	Test and Evaluation
T&M	Time and Materials
T+	Time Post-Ignition
T-	Time Prior to Launch
T-O	Takeoff
T/A	Turnaround
T/C	Termination Check
T/CAP	Thermal Capacitor
T/D	Time Delay
	Touchdown
T/E	Transporter/Erector
T/L	Talk and Listen
T/R	Tape Recorder
	Technical Report
	Transformer Rectifier
	Transmit/Receive
	Transmitter/Receiver
	Transportation Request
	Turnaround Requirements
T/T	Terminal Timing
	Timing/Telemetry
T/TCA	Thrust/Translation Control Assembly
T/V	Thermal/Vacuum
T/W	Thrust-to-Weight
TA	Task Analysis
	Test Article
	Time Actual
	Trunnion Angle
TAA	Technical Assistance Agreement
TAC	Tactical Air Command
	Total Average Cost
TACAN	Tactical Air Command & Navigation System
	Tactical Air Navigation
TACO	Test And Checkout Operations
TAD	Temperature and Dewpoint
TAEM	Terminal Area Energy Management
TAG	Technical Air-to-Ground
TAIR	Test and Inspection Record
TALAR	Tactical Approach and Landing Radar
TAM	Thermal Analytical Model
TAN	Tananarive, Madagascar (STDN)

TAP	Technical Achievement Plan Telemetry Acceptance Pattern Test Administration Plan Total Air Pressure
TAR	Technical Analysis Request Test Action Requirement Test Agency Report
TAS	Telemetry Antenna Subsystem Test Article Specification True Airspeed
TASPR	Technical and Schedule Performance Report
TAT	Technical Acceptance Team Total Air Temperature Turn Around Time
TB	Talk Back Terminal Base Toggle Buffer
TBA	To Be Added To Be Announced
TBD	To Be Defined To Be Determined To Be Developed
TBE	To Be Evaluated
TBI	Through-Bulkhead Initiator
TBN	To Be Negotiated
TBP	To Be Provided
TBS	Task Breakdown Structure To Be Specified To Be Superseded To Be Supplied
TC	Telecommunications Temperature Compensating Test Conductor (Contractor) Test Conductor (Controller) Thermal Control Thermocouple Thiokol Corporation Thrust Chamber Traceability Code Tracking Camera
TCA	Thrust Chamber Assembly Translation Controller Assembly
TCAB	Temperature of Cabin
TCC	Thermal Control Coating
TCD	Test Completion Date Test Control Document
TCF	Tank Checkout Facility
TCG	Test Control Group Time Code Generator
TCI	Technical Critical Item
TCID	Test Configuration Identifier Document
TCMD	Transportation Control and Movement Document

TCN	Test Change Notice
	Transportation Control Number
TCO	Taken Care Of
	Test and Checkout
TCOP	Test and Checkout Plan(s)
TCP	Test Checkout Procedure
	Test Control Package
TCR	Test Conductor
	Test Constraints Review
	Thermal Concept Review
TCRSD	Test & Checkout Requirements Spec. Documentation
TCS	Test Control Supervisor
	Test Control System
	Technical Concurrence Sheets
	Thermal Control Subsystem
	Thermal Control System
TCSSS	Thermal Control Subsystem Segment
TCTI	Time Compliance Technical Instruction
TCTO	Time Compliance Technical Order
TCU	Tape Control Unit
TD	Technical Directive
	Terminal Distributor
	Test Director (NASA)
TD&SA	Telephone, Data & Special Audio
TDD	Task Description Document
TDM	Time-Division Multiplexing
TDP	Temperature and Dewpoint
TDR	Technical Design Review
	Technical Documentation Report
TDRR	Test Data Recording & Retrieval
TDRS	Tracking and Data Relay Satellite
TDRSS	Tracking and Data Relay Satellite System
TDS	Technology Demonstration Satellite
	Test Data System
TDU	Time Display Unit
TDV	Test Data Van
TDY	Temporary Duty
TE	Test Equipment
	Time Earliest/Expected
TEC	Test Equipment Center
TECH	Technical
	Technician
TELCOM	Telecommunications
TELESAT	Telesat Canada Ltd (Communication Satellite)
TEMP	Temperature
	Test and Evaluation Master Plan
TEMS	Transport Environment Monitoring System
TEOS	Tetraethyl Orthosilicate
TEP	Technical Evaluation Panel
	Test Evaluation Plan
TER	Test Equipment Readiness
	Time Estimating Relationship

TERL	Test Engineers Readiness List
	Test Equipment Readiness List
TESH	Technical Shop
TF	Test Facility
	Test Fixture
TFC	Time From Cutoff
TFCS	Triplex Flight Control Subsystem
TFE	Time From Event
TFI	Time From Ignition
TFL	Telemetry Format Load
	Time From Launch
TFS	Telemetry Format Selection
TFU	Test Facility Utilization
TG	Ground Systems (KSC Directorate)
	Ground Systems, TS
TGA	Thermal Gravimetric Analysis
	Trace Gas Analyzer
TGOWG	Teleoperator Ground Operations Working Group
TGS	Telemetry Ground Station
	Telemetry Ground System
TGSE	Telemetry Ground Support Equipment
TGT	Target
THC	Translation Hand Controller
THDS	Time Homogeneous Data Set
TI	Information Systems (KSC Directorate)
	Technical Integration
TIC	Technical Information Center
	Total Item Change
TICM	Test Interface and Control Module
TIFS	Total Inflight Simulator
TII	Tooling Inspection Instrumentation
TIM	Technical Interchange Meeting
TIROS	Topographical Infrared Operations Satellite
TIS	Test Interface Subsystem
TL	Lot Traceability
	Thrust Level
	Time Latest
TLC	Telecommand
TLCE	Transmission Line Conditioning Equipment
TLM	Telemetry
TLS	Time Line Sheet
TLV	Threshold Limit Value
	Transporter - Loader Vehicle
TM	Member Traceability
	Technical Management
	Telemetry
	Traffic Model
TMB	Transportation Management Bulletin
TMC	Test Monitoring Console
TMF	Transporter Maintenance Facility
TMI	Technical Management Items

TMO	Test Manufacturing Order Tool Manufacturing Order
TMP	Terminal Panel
TMPV	Torquemotor Pilot Valve
TMU	Temperature Measurement Unit
TN	Technical Note
TNT	Trinitrotoluene
TO	Operations Management (KSC Directorate) Technical Order
TOC	Test Operations Center Test Operations Change
TOCC	Technical Operations Control Center
TOF	Test Operations Facility
TOL	Tolerance
TOO	Test Operations Order
TOP	Technical Operating Procedure
TOPS	Transistorized Operational Phone System
TOT	Total
TP	Test Point Test Procedure Training Plan Transition Period (T.P. is preferred) Type
TP&C	Thermal Protection and Control
TPA	Test Preparation Area
TPC	Telemetry Preprocessor Computer
TPDS	Test Procedures Development System
TPE	Test Project Engineer
TPF	Terminal Phase Finish Tug Processing Facility
TPI	Terminal Phase Initiation
TPM	Terminal Phase Maneuver
	Technical Performance Measurement (System)
TPO	Test Program Outline
TPR	Test Problem Report
TPS	Test Preparation Sheet Thermal Protection Subsystem Thermal Protection System (SRB, ET, or Orbiter)
TPSE	Thermal Protection Subsystem Experiments
TPUN	Test Procedure Update Notice
TR	Technical Report Test Request Transportation Request
TR/SBS	Teleoperator Retrieval/Skylab Boost System
TRA	Training Requirements Analysis Turnaround Requirements Analysis
TRACS	Tool Record Accountability System
TRAJ	Trajectory
TRB	Technical Review Board Test Review Board
TRBL	Troubleshooting
TRD	Test Requirements Document

TRL	Test Readiness List
TRNG	Training
TRR	Test Readiness Review
TRS	Teleoperator Retrieval System
	Troubleshooting Record Sheet
	Tug Rotational System
TRSD	Test Requirements Specification Document
TS	Serial Traceability
	Technical Support (KSC Directorate)
	Tensile Strength
	Test Site
	Time Scheduled
TSA	Test Start Approval
TSAC	Tracking System Analytic Calibration
TSB	Twin Sideband
TSC	Test Setup Complete
TSCO	Test Support Coordinator
	Test Support Coordination Office
TSCP	Training Simulator Control Panel
TSD	Test Start Date
TSE	Transportation Support Equipment
TSGP	Test Sequence Generator Program (ESTEC)
TSLD	Troubleshooting Logic Diagram
TSM	Tail Service Mast
	Trade Study Management
TSO	Time Sharing Option
	Time Since Overhaul
TSP	Test Software Program
	Twisted Shielded Pairs (Cables)
TSR	Technical Status Review
	Test Status Report
TSRA	Total System Requirements Analysis
TSS	Time Sharing System
	Tug Structural Support
TSSU	Test Signal Switching Unit
TSW	Test Switch
TT	Thrust Termination
	Total Time
TTA	Thermomechanical Test Area
TTC	Telemetry, Tracking, and Command
	Tunnel Thermal Control
TTCA	Thrust Translation Controller Assembly
TTCV	Tracking Telemetry, Command, and Voice
TTEL	Tool and Test Equipment List
TTL	Transistor-Transistor Logic
TTU	Timing Terminal Unit
TTY	Teletype
TU	Technical Utilization
TUL	Tula Peak, NM (STDN site)
TV	Television
	Thermal Vacuum
	Thrust Vector

TVA	Thrust Vector Alignment
TVAR	Test Variance
TVC	Thermal Vacuum Chamber
	Thrust Vector Control
TVCA	Thrust Vector Control Actuator
TVCD	Thrust Vector Control Driver
TVEXPIS	TV Experiment Interconnecting Station
TVN	Test Verification Network
TVP	Test Verification Program
TVS	Toxic Vapor Suit
TVSSIS	TV Subsystem Interconnecting Station
TVT	Thermal Vacuum Test
TVTA	Thermal Vacuum Test Article
TWR	Tower
TWT	Trisonic Wind Tunnel (Rockwell)
TWX	Teletype Wire Transmission
TX	Transmit Channel
TX/RX	Transmitter/Receiver
TYP	Typical

U

U	Uranium
U-SB	Unified S-Band
U/C	Under Current
U/D	Update
U/L	Uplink (UPLK is preferred)
U/M	Unit of Measure
	Unmanned
	Unscheduled Maintenance
U/O	Used On
U/V	Under Voltage
U/W	Used With
UA	Micro Ampere
UB	Utility Bridge
UC	Unsatisfactory Condition
UCN	Uniform Control Number
UCR	Unsatisfactory Condition Report
UCS	Utilities Control System
	Universal Control System
UD	Update
UDB	Update Buffer
UDF	Utility and Data Flow
UDL	Update Link
UDMH	Unsymmetrical Dimethyl Hydrazine
UDOP	Ultrahigh Doppler
UDS	Universal Documentation System
UER	Unique Equipment Register
UF	Microfarad
UFDA	User File Directory
UG	Microgram
UHF	Ultrahigh Frequency
UI	Unit of Issue
	User Interface
ULL	Ullage
ULO	Unmanned Launch Operations
ULT	Ultimate
UMB	Umbilical
UMO	Unmanned Orbital
UMVF	Unmanned Vertical Flight
UPLK	Uplink
UPS	Uninterruptible Power System
	Upright Perigee Stage
UPTLM	Up-Link Telemetry
UR	Unsatisfactory Report
US	United States
	Upper Stage
USA	United States of America
USAF	United States Air Force
USB	Unified S-Band
	Upper Side Band

USBE	Unified S-Band Equipment
USBI	United Space Boosters, Inc.
USBS	Unified S-Band System
USEC	Microsecond
USI	Update Software Identity
USN	United States Navy
USNS	United States Navy Ship
USRA	Universities Space Research Association
USS	United States Ship
	United States Standard
	Utility Support Structure
UST	United States Testing (Company)
UT	Umbilical Tower
	Unit Tester
	Universal Time
UTC	Coordinated Universal Time
	United Technology Center
	Universal Test Console
UTE	Universal Test Equipment
UU	Micromicron
UUT	Unit Under Test
UV	Microvolt
	Ultraviolet
	Under Voltage (U/V is preferred)
UVD	Under Voltage Device
UVF	Unmanned Vertical Flight
UW	Microwatt

V

V Velocity
 Voice
 Volt
 V P-P Volt Peak-to-Peak
 V&DA Video and Data Acquisition
 Video & Data (Processing) Assembly
 V&V Validation and Verification
 V-A Vibro-Acoustic
 V-CITE Vertical-Cargo Integration Test Equipment
 V-RTIF Vandenberg Real Time Interface
 V/A Video/Analog
 V/C Vector Control
 Velocity Counter
 V/H Velocity-to-Height
 V/V Validation and Verification (also V&V)
 VA Volt Ampere
 VA/TVTA Vibro-Acoustic/Thermal/Vacuum Test Article
 VAA Vehicle Assembly Area
 Viewpoint Adapter Assembly
 VAB Vehicle Assembly Building
 VAC Vacuum
 Vehicle Assembly and Checkout
 Volts, Alternating Current
 VAD Vandenberg Addendum Document
 VAFB Vandenberg Air Force Base
 VAK Vertical Access Kit
 Vertical Assembly Kit
 VALID Validation
 VAN USNS Vanguard (STDN)
 VAR Variable (Variance, Variation)
 Verification Analysis Report
 Volt Ampere Reactive
 VASI Visual Approach Slope Indicator
 VAST Versatile Avionics System Tester
 VAT Vibro-Acoustic Test
 VATA Vibro-Acoustic Test Article
 VATF Vibration and Acoustic Test Facility
 VC Vector Character
 Velocity Counter
 VCB Vertical Location of the Center of Buoyancy
 VCD Verification Control Document
 VCE Voice
 VCG Vertical Location of the Center of Gravity
 VCI Velocity Change Indicator
 VCM Volatile Condensable Material
 VCN Verification Completion Notice
 VCO Voltage Controlled Oscillation
 VCP Vandenberg Contract Report
 VCS Verification Control Sheet

VCT	Voltage Control Transfer
VCTR	Vector
VCU	Video Control Unit
VDA	Variable Data Area
VDC	Volts, Direct Current
VDD	Verification Description Document
	Version Description Document
VDI	Vendor Documentation Inventory
VDS	Vehicle Dynamics Simulator
VDT	Vehicle Data Table
VDU	Visual Display Unit
VE	Shuttle Engineering (KSC Directorate)
VECIB	Vehicle Engineering Change Implementation Board
VEEI	Vehicle Electrical Engine Interface
VEH	Vehicle
VEI	Vehicle End Item
VERIF	Verification
VERT	Vertical
VF	Vertical Flight
	Video Frequency
VFE	Vendor Furnished Equipment
VFI	Verification Flight Instrumentation
VFO	Variable Frequency Oscillator
VFR	Visual Flight Rules
VFT	Verification Flight Test
VGOR	Vandenberg Ground Operations Requirements
	Vehicle Ground Operation Requirements
VGP	Vehicle Ground Point
VGt	Vehicle Ground Test
VHF	Very High Frequency
VHF/AM	Very High Frequency Amplitude Modulator
VHF/DF	Very High Frequency Direction Finder
VIA	by means of (by way of)
VIB	Vertical Integration Building
	Vibration
VIC	Visitors Information Center
VID	Video
VIS	Verification Information System
	Visibility
VISC	Viscosity
VJ	Vacuum Jacketed
VLBI	Very Long Baseline Interferometer
VLf	Very Low Frequency
VLPS	VAFB Launch Processing System
VLR	Very Low Range
VLS	Vandenberg Launch and Landing Site
VLV	Valve
VM	Virtual Memory
	Voltmeter
VMF	Vertical Maintenance Facility
VMS	Velocity Measuring System

VO	Shuttle Operations (KSC Directorate) Vehicle Operations
VOIR	Venus Orbiter Imaging Radar
VOL	Volume
VOM	Voltohmmeter
VOMD	VAFB Operations and Maintenance Documentation
VOR	VHF Omnidirectional Radio Range
VORTAC	Variable Omni Range Tactical (VOR and TACAN)
VOT	VHF Omni Test
VOX	Voice Operated Transmission Voice Operated Transmitter
VP	Vacuum Pump Verification Polarization Vertical Polarization Viewpoint
VPF	Vertical Processing Facility
VPHD	Vertical Payload Handling Device
VPK	Volts Peak
VPM	Vehicle Project Manager
VR	Video Recorder Voltage Relay
VRB	VHF Recovery Beacon
VRCS	Vernier Reaction Control System
VRF	Vertical Removal Fixture
VRL	Vertical Recovery Line
VRMS	Volts Root Mean Square
VRR	Verification Readiness Review
VS	Staging Velocity Versus**
VSA	Variable Stability Aircraft Verification Site Approval
VSI	Vertical Speed Indicator Video Simulation Interface
VSTAG	Vandenberg Shuttle Turnaround Analysis Group
VSWR	Visual Standing Wave Ratio Voltage Standing Wave Ratio
VT	STS Processing (KSC Directorate)
VTM	Vibration Test Module
VTN	Verification Test Network
VTP	Vehicle Test Plan Verification Test Plan Verification Test Program
VTR	Video Tape Recorder
VTS	Vertical Test Stand Vertical Test System
VTVM	Vacuum Tube Voltmeter
VTX	Vertex
VU	Vehicle Unit Vehicle Utility Volume Unit

**See note 2, page ii

VV	Vent Valve
VX	Velocity Along the X-Axis
VY	Velocity Along the Y-Axis
VZ	Velocity Along the Z-Axis

W

W	Wide
W&B	Weight and Balance
W&C	Wire and Cable
W/	With
W/B	Wideband
W/G	Water/Glycol
W/O	Without
W/S	Work Station
W/T	Wind Tunnel
W/WMS	Water/Waste Management System (Subsystem)
WA	Work Authorization
WAD	Work Authorization Document
WAN	Work Authorization Number
WAR	Work Authorization Report
WAT	Web Action Time
WB	Wet Bulb
WBDI	Wideband Data Interleaver
WBR	Work Bench Rack
WBS	Work Breakdown Structure
WBSC	Wideband Signal Conditioner
WBT	Wide Band Terminal
WBTS	Wideband Transmission System
WCCS	Window Contamination Control Number
WCDB	Work Control Data Base
WCL	Water Coolant Loop
WCP	Wing Chord Plane
WCS	Waste Collection System
	Work Control System
	Writable Control Storage
WD	Wired Discrete
	Work Days
WG	Wave Guide
	Wing
WHL	Wheel
WHR	Watt-Hour
WIB	When Interrupt Block
WIF	Water Immersion Facility
WINDS	Weather Information Network Display System
WIP	Work In Progress
WL	Wavelength
WM	Waste Management
WMS	Waste Management System
WO	Work Order
WOC	Work Order Control
WOW	Weight On Wheels
WP	Working Pressure
	Work Package
WPAFB	Wright Patterson Air Force Base
WPC	Watts Per Candle

WPD	Work Package Description
WPF	Work Process Flow
WPG	Work Package Grouping
WPI	Work Process Indicator
	Work Progress Indicator
WPM	Words Per Minute
WPMCP	Work Package Manpower and Cost Plan
WPP	Water Pump Package
	Work Package Plan
WPPS	Work Package Planning Sheet
WPS	Words Per Second
WRG	Wiring
WRL	Wing Reference Line
WRO	Work Release Order
WS	Water Servicer
	Wind Shield
	Work Statement
WSB	Water Spray Boiler
WSCC	Work Station Control Center
WSGT	White Sands Ground Terminal
WSMC	Western Space and Missile Center
WSMR	White Sands Missile Range
WSO	Water Servicer Operator
WSTF	White Sands Test Facility
WSU	Water Servicing Unit
WT	Weight
	Wire Ticket
WTA	Wire Traceability and Accountability
WTR	Western Test Range
WTSC	Wet Tantalum Slug Capacitor
WTT	Wind Tunnel Test
WUC	Work Unit Code
WUCF	Work Unit Code File
WUSCI	Western Union Space Communications Inc.
WW	Water Waste
	Wire Wrap
WX	Weather

X

X	times (by, trans-)
XCVR	Transceiver
XDCR	Transducer
XDUCER	Transducer
XFD	Crossfeed
XFER	Transfer
XL	X-Axis of Spacelab*
XLTN	Translation
XMT	Transmit
XMTR	Transmitter
XO	Orbiter Structural Body Reference, X-Axis*
	X-Axis of Orbiter
XP	Payload Structural Body Reference, X-Axis*
	X-Axis of Payload*
XPNDR	Transponder
XS	X-Axis of Solid Rocket Booster*
XT	X-Axis of External Tank*
XTAL	Crystal

*See note 1, page ii

Y

Y horizontal axis - width of vehicle
 Yaw
 Y-Axis, horizontal - width of vehicle/structure
 YD Yard
 YL Y-Axis of Spacelab*
 YO Y-Axis of Orbiter*
 YP Y-Axis of Payload*
 Yield Point
 YR Year
 YS Y-Axis of External Tank*
 Y-Axis of Solid Rocket Booster
 Yield Strength
 YST Yearly Spares Cost
 YT Y-Axis of External Tank*
 Station Identification Symbol
 YV Deputy for Space Launch Systems
 YVC Directorate of Configuration and Information
 Management
 YVCB Configuration/Data Management Division
 YVGF Financial Management Division (SD)
 YVGR Requirements and Analysis Division (SD)
 YVV Directorate of Launch Base Operations
 YVV-1 Program Safety Office (SD)
 YVVE Engineering Division
 YVVI Inertial Upper Stage (SD)
 YVVL Integrated Logistics Support Division (SD)
 YVVO Operations Division
 YVVS DOD Mission Support Division, JSC (SD)

*See note 1, page ii

Z

Z	Zone
	Zulu (Greenwich Mean Time - GMT)
ZGT	Zero Gravity Trainer
ZI	Zone of Interior (Continental USA)
ZL	Z-Axis of Spacelab*
ZO	Station Identification Symbol, Orbiter X-Axis
	Z-Axis of Orbiter*
ZOP	Zero Operational Ajont Code
ZP	Z-Axis of Payload*
ZPN	Impedance Pneumogram
ZS	Z-Axis of Solid Rocket Booster*
ZT	Z-Axis of External Tank*

*See note 1, page ii

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