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# STS AND CARGO GLOSSARY, ACRONYMS AND ABBREVIATIONS

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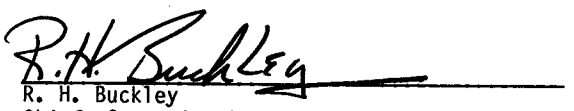
# STS and Cargo

# GLOSSARY, ACRONYMS, & ABBREVIATIONS

Prepared by:

M. J. Martin
Shuttle Planning & Integration
Management Information Center

APPROVAL:



R. H. Buckley
Chief, Operation Planning & Integration Office

Victor Segall
DOD VLS OMD Manager

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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

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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 midcourse 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 (MBTF) 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

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

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 indentured 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 overall 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 POCC 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 contractural 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 verificaton 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 (reparable).

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 functon 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 indentured 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 |
| ADCR | 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 |
| AFF | 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<br>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<br>Automatic Gain Control |
| AGCU | Air Ground Cooling Unit |
| AGE | Aerospace Ground Equipment<br>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<br>Analog Input Differential<br>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<br>Adaptive Intercommunication Requirement |
| AIS | Action Item Sheet<br>Airlock Illumination Subassembly<br>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<br>Automatic Light Control |
| ALDO | Activity Level Dependent Operations |
| ALE | Airport Landing Equipment<br>Airport Lighting Equipment |
| ALIO | Activity Level Independent Operations |
| ALPHA | Angle of Attack (Pitch) |
| ALS | Advance Logistics System<br>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 |
| AMPTE | 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 | Analog 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 | 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 | Backup Rate |
| BW | Bandwidth |
| | Bridgewire |

| | |
|---|---|
| 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<br>Configuration and Acceptance Review<br>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<br>Customer Acquisition Unit |
| CB | Center of Buoyancy<br>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<br>Chief Counsel (KSC Directorate)<br>Cost Center<br>Crew(s) Certified |
| CCA | Contract Change Authorization |
| CCAFS | Cape Canaveral Air Force Station |
| CCATS | Command, Communication & Telemetry Subsystem |
| CCB | Change Control Board<br>Configuration Control Board |
| CCBD | Configuration Control Board Directive |
| CCC | Central Computer Complex<br>Communications Control Console<br>Complex Control Center<br>Controller Checkout Console |
| CCD | Charge Coupled Device<br>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<br>Crew/Cargo Module |
| CCME | Contract Change Mass Estimate |
| CCMS | Checkout, Control & Monitor Subsystem (LPS)<br>Command Control & Monitor System |
| CCN | Contract Change Negotiation<br>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 |
| CDDT | 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 |
| CMP | 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 | Condensate Water Servicing Unit |
| CY | Calendar Year |

| | |
|---|---|
| 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 Miliwatt** |
| DBN | Data Bus Network |
| DBRN | Data Bank Release Notice |
| DBUR | Data Bank Update Request |
| DBW | Data Bus Wire<br>Decibel Referred to 1 Watt** |
| DC | Direct Current |
| DCA | Design Change Authorization<br>Distribution Control Assembly |
| DCAA | Defense Contract Audit Agency |
| DCAR | Design Corrective Action Report |
| DCAS | Defense Contract Administration Services |
| DCC | Data Computation Complex<br>Document Control Center |
| DCKNG | Docking |
| DCL | Document Change List |
| DCM | Decom Control Memory |
| DCMB | Development Configuration Management Board |
| DCN | Design Change Notice<br>Document Change Notice<br>Drawing Change Notice |
| DCNP | Document Change Notice Proposal |
| DCOP | Displays, Controls & Operation Procedures |
| DCP | Data Collection Platform<br>Depot Condemnation Percent<br>Development Cost Plan |
| DCPEI | DEU Control Program End Item |
| DCR | Design Certification Review<br>Design Concern Report<br>Document Change Record (or Review) |
| DCS | Data Communication System<br>Data Control System<br>Design Communication System<br>Design Criteria Specification<br>Digital Command System (Subsystem)<br>Display and Control System<br>Dual Checkout Station |
| DCSP | Digital Control Signal Processor |
| DCU | Digital Computer Unit<br>Display & Control Unit |
| DCV | Direct Current Volts |
| DD | Data Depository<br>Data Display<br>Directives Documentation<br>Mechanical and Facilities Engineering (KSC Directorate) |
| DD&CS | Dedicated Display & Control Subsystem |
| DDA | Digital Differential Analyzer<br>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 |
| DEMOD | 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<br>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<br>Department Summary Schedule<br>Documentation Support Services |
| DSSM | Dedicated Solar Sortie Mission |
| DST | Dimensional Special Tooling<br>Dynamic Stability Test |
| DSTF | Delta Spin Test Facility |
| DT | Drop Tank<br>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)<br>Digital Test Measurement System |
| DTO | Detailed Test Objective |
| DTP | Detail Test Plan |
| DTRD | Development Test Requirements Document |
| DTS | Data Transfer System<br>Data Transmission System |
| DU | Display Unit |
| DUC | Digital Uplink Command |
| DUM | Dummy |
| DUPLX(R) | Duplex(er) |
| DV | Designated Verification<br>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 | 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 |
| EIASN | 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<br>Engine Order Capability |
| EOD | Estimated On Dock<br>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<br>Engineering Operations Manual<br>Equations Of Motion |
| EOMF | End of Minor Frame |
| EOP | Earth & Ocean Physics<br>Emergency Oxygen Pack<br>Experiments of Opportunity |
| EOPAP | Earth & Ocean Physics Application Program |
| EOR | Earth Orbit Rendezvous |
| EOS | Earth Observation Satellite<br>Earth Orbit Shuttle<br>Emergency Oxygen System |
| EOT | End of Tape |
| EP | Environmental Protective Plan |
| EPA | Environmental Protection Agency |
| EPC | Error Protection Code<br>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<br>Experimental Power Supply |
| EPSP | Experiment Power Switching Panel |
| EPT | Emergency Procedure Trainer<br>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 | Elasped 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<br>Experimental Unit |
| EUROCOMSAT | European Consortium Communications Satellite |
| EUVE | Extreme Ultraviolet Explorer |
| EVA | Earned Value Analysis<br>Extravehicular Activity |
| EVAL | Earth Viewing Applications Laboratory<br>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)<br>Extension |
| EXTER | External |

| | |
|---|---|
| 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 | Flexable 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<br>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)<br>Flight Control Operating System |
| FCP | Failure Correction Panel<br>Firm Cost Proposal<br>Flight Correction Proposal<br>Fuel Cell Power (Plant) |
| FCPS | Fuel Cell Power Subsystem |
| FCR | Final Configuration Review<br>Flight Control Room |
| FCRT | Flight Display CRT |
| FCS | Federal Communications System<br>Flight Control Subsystem<br>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<br>Function Designator |
| FDA | Fault Detection & Annunciation |
| FDAI | Flight Director Attitude Indicator |
| FDB | Fahrenheit Dry Bulb |
| FDDB | Function Designator Data Base |
| FDF | Flight Data File |
| FDI | Fault Detection & Isolation |
| FDIIR | Fault Detection, Isolation, Identification & Recompensation |
| FDL | Flight Director Loop |
| FDM | Frequency Data Multiplexer<br>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<br>Functional Engineering Interface Device |
| FEM | Finite Element Method |
| FEMCPL | Facilities and Environmental Measurement Comp. Parts List |
| FEP | Fluorinated Ethylene Propylene<br>Front End Processor<br>Floral Ethel Propane |
| FERD | Facility & Equipment Requirements Document |
| FES | Flash Evaporator System<br>Flight Element Set |
| FESL | Failure Effects Summary List |
| FEWG | Flight Evaluation Working Group |
| FF | Flight Forward<br>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<br>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<br>Flowline |
| FL MECH | Fluid Mechanical |
| FLA | Frustum Location Aid |
| FLAP | Flight Application Software |
| FLC | Federal Library Committee |
| FLLK | Frustum Lifting Lug Kit |
| FLSC | Flexible Linear Shaped Charge |
| FLT | Flight |
| FLTSATCOM | Fleet Satellite Communications |
| FM | Flight Model<br>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 |
| FMSP | 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 |
| FOP | 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 | Giga (Billion)<br>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<br>Gyro Assembly |
| GAC | Grumman Aerospace Corporation |
| GACU | Ground Air Conditioning Unit<br>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)<br>Ground Control Network |
| GCO | Ground Checkout |
| GCOS | General Computer Operational System<br>Ground Computer Operating System |
| GCS | Guidance Cutoff Signal |
| GCTS | Gas Component Test Stand<br>Ground Communication Tracking System |
| GCU | General Control Unit<br>Generator Control Unit<br>Ground Cooling Unit<br>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) |

| | |
|---|---|
| GDX | 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 |
| GSVP | 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 | 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

| | |
|---|---|
| HOSC | 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 ≠)<br>Input/Output Buffer |
| IOC | Indirect Operating Costs<br>Initial Operational Capability<br>Input/Output Controller |
| IOCU | Input/Output Control Unit |
| IOM | Input/Output Module |
| IOP | Input/Output Processor<br>Integrated Operation Plan |
| IOPL | Integrated Open Problem List |
| IOS | Indian Ocean Ship (STDN)<br>Input/Output Supervision<br>Instructor Operator Station |
| IOSC | Integrated Operations Support Center |
| IOU | Input/Output Unit |
| IP | Identification of Position<br>Igloo Pallet<br>Intermediate Pallet<br>Intermediate Pressure |
| IPACS | Integrated Power & Attitude Control System |
| IPAD | Integrated Program for Aerospace Vehicle Design |
| IPB | Illuminated Push Button<br>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<br>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 | Isotype 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<br>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<br>Interface Unit |
| IUCS | Instrumentation Update Command System<br>Instrumentation Unit Update Command System |
| IUE | International Ultraviolet Explorer |
| IUS | Inertial Upper Stage (was Interim Upper Stage)<br>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 | Kelvin<br>Kilo (1000)<br>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 | Kadena AB, Ryuku Islands (Deorb OPT site) |
| KAPL | KSC Approved Parts List |
| KAU | Kilo Accounting Unit |
| KB | Keyboard<br>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 | 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 |
| LB | Pound** |
| LBDT | 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<br>Lift Vector<br>Limit Value<br>Load Vertical<br>Low Voltage |
| LVDC | Launch Vehicle Digital Computer |
| LVDT | Linear Variable Differential Transformer<br>Linear Voltage Differential Transformer |
| LVLH | Local Vertical/Local Horizontal |
| LWG | Logistics Working Group |
| LWR | Lower |
| LWS | Lightning Warning System |

| | |
|---|---|
| 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) |
| MCDS | Maintenance Control & Display System |
| | Multifunction CRT Display System |
| MCDU | Multifunction CRT Display Unit |
| MCF | Maintenance & Checkout Facility |
| | Mission Control Facility |
| MCIU | 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 |
| | Modificaton 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 |
| MPTF | 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<br>Measuring & Stimuli Equipment<br>Mechanical Support Equipment<br>Medical Support Equipment<br>Mission Staff Engineer |
| MSF | Maintenance Source File<br>Manned Space Flight |
| MSFC | George C. Marshall Space Flight Center |
| MSFN | Manned Space Flight Network |
| MSG | Message |
| MSI | Maintenance Significant Items<br>Medium Scale Integration |
| MSIA | Multi-Spectral Image Analyzer |
| MSID | Measurement Stimulation Identification |
| MSL | Mean Sea Level<br>Mechanical Systems Laboratory |
| MSLD | Mass Spectrometer Leak Detector |
| MSM | Manned Support Module |
| MSO | Model for Spares Optimization |
| MSOB | Manned Spacecraft Operations Building<br>(O&C preferred) |
| MSOCC | Multisatellite Operations Control Center |
| MSOIN | Minor Subcontractor Or IDWA Notification |
| MSS | Maintenance Status System<br>Manufacturers Standardization Society<br>Mission Specialist Station<br>Mobile Service Structure<br>Multispectral Scanner System |
| MST | Measurement Status Table<br>Mobile Service Tower<br>Mountain Standard Time |
| MSU | Mass Storage Unit<br>Measuring Stimuli Units |
| MSV | Monitored Sine Vibration (Test) |
| MSW | Microswitch |
| MT | Magnetic Tape<br>Master Timer<br>Master Tool<br>Maximum Torque<br>Mechanical Technician<br>Mission Trajectory<br>Mount<br>Mountain Time |
| MTA | Maintenance Task Analysis<br>Major Test Article<br>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 |
| MTCA | 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 |
| MTTR | 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 | 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 |
| OFP | 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<br>Operations Management Room<br>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<br>Operational Maintainability Reporting Systems Document<br>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<br>Orbit-to-Orbit Shuttle<br>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<br>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<br>Operations Planning Review |
| OPS | Operations<br>Operations Sequence<br>Orbiter Project Schedules<br>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 |
| | Orroral Valley, Australia (STDN) |
| ORT | Orbit Readiness Test |
| OS | 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 | 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 |
| | Program Change Integration |
| PCL | Primary Coolant Loop |
| | Programming Check List |
| PCM | Power Control Mission |
| | Pulse Code Modulation |
| | Punch Card Machine |
| PCMMU | Pulse Code Modulation Master Unit |
| PCN | Page Change Notice |
| | Program Change Notice |
| | Program Control Number |
| PCO | Post-Checkout Operations |
| | Procuring Contracting Officer |
| | Program Controlled Output |
| PCP | Power Control Panel |
| | Project Change Proposal |
| | Project Cost Plan |
| PCR | 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<br>Procurement Document<br>Procurement Drawing<br>Program Directive<br>Project Directive |
| PD&RS | Payload Deployment & Retrieval Subsystem |
| PDA | Propellant Drain Area |
| PDAR | Program Description and Requirements |
| PDB | Performance Data Book<br>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<br>Program Design Language |
| PDM | Processor Data Monitor<br>Pulse Duration Modulation |
| PDM/FM | Pulse Duration Modulation/Frequency Modulation |
| PDP | Preliminary Definition Plan<br>Procurement Data Package<br>Program Development Plan<br>Project Definition Phase |
| PDR | Preliminary Data Requirements<br>Preliminary Design Review<br>Processed Data Recorder<br>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<br>Payload Deployment and Retrieval Systems |
| PDRSTA | Payload Deployment and Retrieval System Test Article |
| PDS | Package Data System<br>Partitioned Data Set<br>Power Distribution Subsystem<br>Problem Data System |
| PDU | Power Drive Unit<br>Pressure Distribution Unit<br>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 |
| PFCS | Primary Flight Control System |
| PFL | Primary Freon Loop |
| PFM | Platform |
| | Pulse Frequency Modulation |
| PFP | Program Financial Plan |
| | Programmable Function Panel |
| PFRT | 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 Stuc |
| 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 |
| PSCL | 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<br>Power Unit<br>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<br>Propellant Valve Actuator |
| PVR | Precision Voltage Reference |
| PVRD | Purge, Vent, Repressurize, and Drain |
| PVRO | Pyrotechnics |
| PVT | Preflight Verification Test<br>Pressure, Volume, and Temperature<br>Private<br>Pyrotechnic Verification Test |
| PVWA | Planned Value of Work Accomplished |
| PVWS | Planned Value of Work Scheduled |
| PW | Pulse Width |
| PWA | Private Write Area<br>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 | 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 | 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 |
| RGA | Rate Gyro Assembly |
| RGP | 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<br>Recovery Vessel<br>Reentry Vehicle<br>Relief Valve<br>Retrieval Vessel |
| RVCF | Remote Vehicle Checkout Facility |
| RVDT | Rotary Variable Differential Transducer<br>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 Transportaion 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/YVV | 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 |
| | Supplier Documentation Review Board |
| SDRD | 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 |
| SEAID | 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 Leeside 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 |
| SMM | Solar Maximum Mission |
| | Subsystem Measurement Management |
| SMMD | Specimen Mass Measurement Device |
| SMPM | Structural Materials Property Manual |
| SMPTRB | Shuttle Main Propulsion Test Requirement Board |
| SMQ | Structure Module Qualification Test |
| SMR | Source, Maintenance, and Recoverability (Code) |
| SMRD | Spin Motor Rotational Detector |
| | Spin Motor Run Discrete |
| SMS | Separation Mechanism Subsystem |
| | Shuttle Mission Simulator |
| | Synchronous Meteorological Satellite |
| SMSCC | Shuttle Mission Simulator Computer Complex System |
| SMSI | Standard Manned Space Flight Initiator (See NSI-I) |
| SMTAS | Shuttle Model Test and Analysis System |
| SMU | Soft Mockup |
| SMVP | Shuttle Master Verification Plan |
| SMVRD | Shuttle Master Verification Requirements Document |
| SMW | Standard Materials Worksheet |
| SNF | System Noise Figure |
| SNR | Signal to Noise Ratio |
| SNSO | Space Nuclear Systems Office |
| SOAR | Shuttle Orbital Applications and Requirements |
| SOARS | Shuttle Operation Automated Reporting System |
| SOATS | Support Operation Automated Training System |
| SOC | System Option Controller |
| SOCAR | Shuttle Operational Capability Assessment Report |
| SOCC | Satellite Operations Control Center |
| SOCH | Spacelab Orbiter Common Hardware |
| SODB | Shuttle Operational Data Book |
| | Start Of Data Block |
| SODS | Skylab Orbit-Deorbit System |
| SOF | Safety of Flight |
| SOFI | Spray-On Foam Insulation |
| SOFT | Space Operations and Flight Techniques |
| SOH | Start Of Heading |
| SOIS | Spacelab/Orbiter Interface Simulator |
| SOL | Solenoid |
| SOM | Ship Operations Manager (NASA) |
| | Spares Optimization Model |
| | Standard Operating Manual |
| SOMF | Start Of Minor Frame |
| SOMS | Shuttle Orbiter Medical System |

| | |
|---|---|
| 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 |
| SPPL | 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 |
| SSFGSS | 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 |
| | Systems Test Complex |
| STCP | 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)<br>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<br>Static Test Model |
| STN | Software Trouble Note |
| STP | Shuttle Technology Panel<br>Space Technology Payload<br>Space Test Program<br>Subsystem Test Plan |
| STPH | Static Phase Error |
| STR | System Test Review<br>Structure |
| STRG | Steering<br>String |
| STRL | Structural |
| STRUC | Structure |
| STS | Shuttle Test Station<br>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<br>Support |
| SUPSALV | Supervisor of Salvage (US Navy) |
| SUPT | Support |
| SUPV | Supervisor |
| SURE | Shuttle Users Review and Evaluation |
| SV | Safety Valve<br>Shuttle Vehicle<br>Solenoid Valve<br>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 | 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-0 | 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 | 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 | 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<br>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<br>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<br>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<br>Vibration |
| VIC | Visitors Information Center |
| VID | Video |
| VIS | Verification Information System<br>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<br>Voltmeter |
| VMF | Vertical Maintenance Facility |
| VMS | Velocity Measuring System |

| | |
|---|---|
| VO | Shuttle Operations (KSC Directorate)<br>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<br>Voice Operated Transmitter |
| VP | Vacuum Pump<br>Verification Polarization<br>Vertical Polarization<br>Viewpoint |
| VPF | Vertical Processing Facility |
| VPHD | Vertical Payload Handling Device |
| VPK | Volts Peak |
| VPM | Vehicle Project Manager |
| VR | Video Recorder<br>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<br>Versus** |
| VSA | Variable Stability Aircraft<br>Verification Site Approval |
| VSI | Vertical Speed Indicator<br>Video Simulation Interface |
| VSTAG | Vandenberg Shuttle Turnaround Analysis Group |
| VSWR | Visual Standing Wave Ratio<br>Voltage Standing Wave Ratio |
| VT | STS Processing (KSC Directorate) |
| VTM | Vibration Test Module |
| VTN | Verification Test Network |
| VTP | Vehicle Test Plan<br>Verification Test Plan<br>Verification Test Program |
| VTR | Video Tape Recorder |
| VTS | Vertical Test Stand<br>Vertical Test System |
| VTVM | Vacuum Tube Voltmeter |
| VTX | Vertex |
| VU | Vehicle Unit<br>Vehicle Utility<br>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 | 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 | 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*<br>X-Axis of Orbiter |
| XP | Payload Structural Body Reference, X-Axis*<br>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 | horizontal axis - width of vehicle<br>Yaw<br>Y-Axis, horizontal - width of vehicle/structure |
| YD | Yard |
| YL | Y-Axis of Spacelab* |
| YO | Y-Axis of Orbiter* |
| YP | Y-Axis of Payload*<br>Yield Point |
| YR | Year |
| YS | Y-Axis of External Tank*<br>Y-Axis of Solid Rocket Booster<br>Yield Strength |
| YST | Yearly Spares Cost |
| YT | Y-Axis of External Tank*<br>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 Divison (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 | 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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