

**NASA  
Reference  
Publication  
1059 Revised**

February 1985

Space Transportation System  
and Associated Payloads:  
Glossary, Acronyms,  
and Abbreviations

**NASA**  
National Aeronautics  
and Space Administration  
Scientific and Technical  
Information Branch



# PREFACE

This collection of acronyms and abbreviations used in the Shuttle world was prepared by the Kennedy Space Center, Johnson Space Center, and the Air Force. This list is intended as a guide or reference; it is not a dictionary. Perhaps the best way to think of this collection is as a phrase-book to help users understand parts of a new world.

As we travel farther in space and continue to discover new worlds, more acronyms and abbreviations are created almost daily. The transience of these technical terms is best demonstrated by comparing this list with the special lingo and jargon employed only a decade ago during the Apollo program. Although some terms are the same, the working groups now speak in a different dialect.

We realize this list is neither comprehensive nor totally up-to-date. That is the reason we encourage you to send new acronyms and abbreviations, as well as corrections to terms included here, to:

Scientific and Technical Information Branch  
Technical Publications Section  
Mail Stop NIT-3  
National Aeronautics and Space Administration  
Washington, D.C. 20546.

Your input will be used in preparing future revisions of this list.

Thank you for your interest.



**ATLAS-CENTAUR CLASS**

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

**ATTACHING PART**

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

**AUTOMATED PAYLOADS**

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

**AUXILIARY STAGE**

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

**AZIMUTH**

True launch heading measured clockwise from 0° north.

# **SECTION I GLOSSARY**

## **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 crewmembers 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.

**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 crewmember 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**

Space-lab-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, 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 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-D-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 crewmembers 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 operation.

**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, subassemblies, components, and parts.

**INERTIAL UPPER STAGE**

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

**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.

**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, subsystem, equipment, component, or part).

## K-FACTORS

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

Four examples are:

$K_1$  Engineering correction based on LRU complexity, greater than 1

$K_2$  Total failure ratio to relevant failure, greater than 1

$K_3$  Ratio of operating hours to flying hours

$K_4$  Ratio of demands on supply systems 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 pre-launch checkout and countdown and from which it is launched.

**LAUNCH PROCESSING SYSTEM**

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

**LAUNCH PROCESSING SYSTEM (LPS) SUPPORT AVAILABLE**

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

**LAUNCH-READINESS VERIFICATION**

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

**LAUNCH SITE SUPPORT MANAGER**

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

**LAUNCH SITE SUPPORT PLAN**

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

**LEVEL OF REPAIR ANALYSIS**

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



#### LINE REPLACEABLE UNIT

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

#### LOAD FACTOR

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

#### LOGISTICS ENGINEERING ANALYSES

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

#### LONG DURATION EXPOSURE FACILITY

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

#### LONG LEADTIME ITEMS

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

## **MAINTAINABILITY (M)**

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 (MGE)**

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 (MSC)**

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 crewmember 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**

The 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.

#### **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.

#### **OPERATIONS AND MAINTENANCE DOCUMENTATION (OMD)**

OMD includes: engineering drawings and lists, Organizational Operations and Maintenance (OM) manuals including Operations & Maintenance Instructions (OMIs), Standard Repair manuals, Illustrated Parts Breakdown (IPBs), Intermediate Maintenance manuals, Non-destructive Inspection (NDI) manuals, Work Unit Code (WUC) manuals, and Time Compliance Technical Instructions (TCTIs).

#### **OPERATIONS AND MAINTENANCE (OM) MANUALS**

OM manuals are organized procedural information specifying methods of operating and maintaining flight hardware and support equipment. OM 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.



**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, designed 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 crewmember, 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.

**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.

**PILOT**

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

**PLANNING OPERATIONS MANAGEMENT TEAM**

Elements 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 CHECK LIST**

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

**PROVISIONING ACTIVITY**

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

**PROVISIONING PERFORMANCE SCHEDULE**

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

**PROVISIONING SCREENING**

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

#### **PROVISIONING SPECIFICATION**

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

#### **PROVISIONING TECHNICAL DOCUMENTATION (PTD)**

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

## QUALITATIVE REQUIREMENTS

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

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

## QUANTITATIVE REQUIREMENTS

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

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

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

## RACKS

Same as experiment racks.

## REACTION CONTROL SUBSYSTEM

Thrusters on the Orbiter that provide attitude control and three-axis translation during orbit insertion, on-orbit, and re-entry 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 the 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. Repairable 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 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 (SEND)**

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 (SAND)**

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 (SMR) 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**

An integrated system consisting of the Space Shuttle (Orbiter, external tank, solid rocket booster, and flight kits), upper stages, Spacelab, and any associated flight hardware and software.

**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).

**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 (i.e., Repairable Items).

**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.

**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 (SPTD)**

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

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

## **SUPPORT EQUIPMENT**

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

## **SUPPORT EQUIPMENT INSTALLATION & CHECKOUT COMPLETE**

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

## **SUPPORT ITEMS**

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

## **SUPPORT REQUIREMENTS ANALYSIS**

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

**TILT/SPIN TABLE**

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

**TRACKING AND DATA RELAY SATELLITE SYSTEM**

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

**TRAINER**

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

**TRAINING REQUIREMENTS ANALYSIS**

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

**UNSCHEDULED MAINTENANCE**

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

**UPPER STAGE**

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

**UPWEIGHT**

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

**USER**

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

**UTILIZATION PLANNING**

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

.

**VALIDATION**

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

**VEHICLE ASSEMBLY BUILDING**

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

**VENDOR ITEM**

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



## **WESTERN LAUNCH OPERATIONS DIVISION**

NASA operation at Vandenberg Air Force Base.

### **WORK STATION**

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

### **WORK UNIT CODE**

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

## ZENITH

That point of the celestial sphere vertically overhead. The point  $180^\circ$  from the zenith is called the nadir.

## SECTION II ACRONYMS & ABBREVIATIONS

### A

A	Acceleration Aft Alpha Ampere Analog Signal
A&A	Advertise and Award
A&E	Architects and Engineering Architectural and Engineering
A&L	Approach and Landing
A&P	Attitude and Pointing
A&PS	Administration and Program Support (MSFC Directorate)
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/E	Activity Elements
A/F	Air-to-Fuel Ratio
A/FM	Arm/Firing Mechanism
A/G	Air to Ground
A/L	Approach/Landing Airlock Autoland
A/M	Auto/Manual
A/N	Alpha-Numeric
A/O	Analog/Output
A/P	Airport
A/R	As Required

A/R	Autoland Rollout
A/S	Airspeed
	Ascent Stage
	Auxiliary Stage
AA	Accelerated Assemblies
	Accelerometer Assemblies
	Accelerometer Assembly
	Airplane Avionics
	American Airlines
	Associate Administrator
	Angular Accelerometer
AA/AL	Airplane Avionics/Autoland
	Automatic Approach/Autoland
AA/SF	Associate Administrator for Space Flight
AA/TDA	AA for Tracking and Data Acquisition
AAA	Astronaut-Actuated Abort
AACS	Attitude and Antenna Control System
AADS	Ascent Air Data System
AAE	Abort Advisory Equipment
	Aerospace Ancillary Equipment
	Aerospace Auxiliary Equipment
AAFE	Advanced Applications Flight Equipment
AAH	Automated Attitude Hold (for MMU)
AAIR	Advanced Atmospheric Sounder and Imaging Radiometer
AAP	Airlock Adapter Plate
	Analog Autopilot
AAS	Abort Advisory System
AAT	Activation Acceptance Team
AB	Airborne
	Auto-Beacon
	Avionics Bay
ABA	DC Amplifier, Buffer, Attenuator
ABC	Automatic Brightness Control
ABCF	As-Built Configuration File
ABCL	As-Built Configuration List
ABCR	As-Built Configuration Record
ABE	Air-Based Electronics
ABERT	Auto Bit Error Rate Test

ABM	Acquisition Bus Monitor Advanced Bill of Materials Apogee Boost Motor
ABRT	Abort (preferred over ABT)
ABRT REQ	Abort Request
ABS	Absolute
ABS CLG	Absolute Ceiling
ABT	Abort
AC	Aerodynamic Center Applications Controller Comptroller (KSC Directorate)
ac	Alternating Current
ACA	Altitude Controller Assembly Annunciator Control Assembly Attitude Controller Assembly
ACB	Air Cushion Barge
ACC	Accumulate Automatic Control Console Auxiliary Crew Compartment
ACCEL	Acceleration Accelerometer
ACCESS	Accessory
ACCN	Audit Central Control Network
ACCU	Award Central Control Unit Audio Central Control Unit
ACCUM	Accumulator
ACD	Access Control Document Accuracy Control Document
ACE	Acceptance Checkout Equipment Automatic Checkout Equipment
ACES	Acceptance Checkout and Evaluation System Acceptance Control Equipment Section Acceptance Control Equipment System Automatic Checkout Equipment Sequencer
ACEU	Aerocontrol Electronics Unit
ACI	Age Controlled Item
ACIL	Automatic Controlled Instrument Landing
ACIP	Aerodynamic Coefficient Instrumentation Package Aerodynamic Coefficient(s) Identification Package

ACK	Acknowledge
ACL	Allowable Container Load Ascent Closed Loop
ACLC	Adaptive Communication Live Controller
ACLS	Automated Control and Landing System
ACM	Acquisition Control Module Activity Classification Number Allocated Configuration Management Auxiliary Core Memory
ACMB	Applications Configuration Management Board
ACMS	Automated Configuration Management System
ACN	Ascension Island (STDN)
ACO	Abort-Once-Around Cutoff Acceptance Checkout Administrative Contracting Officer
ACP	Astronaut Control Panel Audio Control Panel
ACPM	Associate Contractor Program Manager Attitude Control Propulsion Motor
ACPO	Associate Contractor Project Office
ACPS	Attitude Control Propulsion System (Subsystem)
ACPT	Accept
ACQ	Acquire Acquisition
ACR	Actual Cost Report
ACRS	Advisory Committee on Reactor Safeguards
ACS	Aft Crew Station Alternating Current Synchronous Atmosphere Control System Attitude Control System (IPS preferred) Automated Control System
ACT	Acquisition, Control of Test (Units) Activate, Activation Actuate, Actuator Actual
ACTA	Active Test Article
ACTCS	Active Thermal Control System
ACTIV	Activation

ACTR	Actuator
ACTV	Active
ACU	Annunciator Control Unit Avionics Cooling Unit
ACUO	Avionics Cooling Unit Operator
ACV	Air Cushion Vehicle
ACWP	Actual Cost for Work Performed
AD	Administrative Operations and Support Serv. (KSC Dir.) Air Data Air Density
ADA	Air Data Assembly Azimuth Drive Assembly
ADAP	Adaptive Intercommunication Requirement
ADB	Aerodynamic Data Book
ADC	Air Data Computer Analog-to-Digital Computer Analytic Drag Control
Adc	Amperes Direct Current
ADCR	Applicable Document Contractual Record
ADD	Address
ADDR	Address
ADF	Automatic Direction Finder Automatic Display Finder
ADI	Attitude Direction Indicator Attitude Display Indicator
ADJ	Adjust
ADL	Avionics Development Laboratory (RI-SD)
ADP	Acceptance Data Package Air Data Probe Automatic Data Processing
ADPA	Air Data Probe Assemblies
ADPE	Automatic Data Processing Equipment
ADR	Address
ADS	Air Data Sensor Air Data System Attitude Display System Audio Distribution System
ADT	Air Data Transducer
ADTA	Air Data Transducer Assembly

ADU	Annunciator Display Unit
AEB	Aft Equipment Bay
AEC	Aft End Cone
	Aft Events Controller
	Atomic Energy Commission
AED	Analog Event Distributor
AEDC	Arnold Engineering Development Center
AEDS	Analog Event Distribution System
AEM	Acoustical Emission Monitoring
AERO	Aerodynamic
	Aerosurfaces
	Atmospheric Flt Supt
AES	Analog Event System
AET	Aerosurface End-to-End Test
AETL	Approved Engineering Test Laboratory
AF	Aft Fuselage
	Airframe
	Air Force
	Audio Frequency
AFA	Airframe Assembly
AFAD	Armed Forces Acquisition Document
AFALD	Air Force Acquisition Logistics Division (WPAFB)
AFB	Air Force Base
AFC	Aerodynamic Flight Control
	Automatic Flight Control
	Automatic Frequency Control
AFCE	Automatic Flight Control Equipment
AFCS	Automatic Flight Control System
AFD	Aft Flight Deck
	Assistant Flight Director
AFDCP	Aft Flight Deck Control Panel
AFDO	Aft Flight Deck Operator
AFDPDB	Aft Flight Deck Power Distribution Box
AFEB	Award Fee Evaluation Board
AFEC	Award Fee Evaluation Committee
AFETR	Air Force Eastern Test Range (ESMC preferred)
AFETRM	Air Force Eastern Test Range Manual
AFF	Acceptance and Ferry Flight



AFFTC	Air Force Flight Test Center (Edwards AFB)
AFGWC	Air Force Global Weather Center
AFI	Automatic Fault Isolation
AFL	Autoland Flight Tests
AFLC	Air Force Logistics Command
AFM	Air Force Manual
AFO	Announced Flight Opportunity
	Announcement of Flight Opportunities
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
	Air Force Satellite/Spacecraft Control Facility
AFSIG	Ascent Flight Systems Integration Group
AFSWC	Air Force Special Weapons Center (Holloman AFB)
AFT	Aerodynamic Flight Test
	Atmospheric Flight Test
AFTA	Acoustic Fatigue Test Article
	Aft Frame Tilt Actuator
AFTEC	Air Force Test and Evaluation Center
AFV	Anti-Flood Valve
AG	Artificial Gravity
	Attitude Gyro
AGAA	Attitude Gyro Accelerometer Assembly
AGAP	Attitude Gyro and Accelerometer Package
AGC	Aerojet-General Corporation
	Automatic Gain Control
AGCA	Automatic Ground Controlled Approach
AGCL	Automatic Ground Controlled Landing
AGCU	Air Ground Cooling Unit
	Attitude Gyro Coupling Unit
AGE	Aerospace Ground Equipment
	Air/Ground Equipment
	Automatic Ground Equipment
AGI	Agreement Item
AGL	Above Ground Level

AGL	Absolute Ground Level
AGMC	Aerospace Guidance and Metrology Center
AGO	Santiago, Chile (STDN)
AGOES	Advance Geosynchronous Observation Environment Satellite
AGOSS	Automated Ground Operations Scheduling System (also AUTO-GOSS)
AGS	Abort Guidance System Antigravity Suit
AGVS	Air/Ground Voice System
AH	Attitude Hold
Ah	Ampere Hour
AHI	Artificial Horizon Indicator
AHP	Attitude Hold (Pitch Axis)
AHR	Ablative Heat Rate Attitude Hold (Roll Axis)
AHRS	Attitude Heading Reference System
AI	Action Item Airspeed Indicator Altimeter Indicator Altitude Indicator Attitude Indicator
AIAA	American Institute of Aeronautics and Astronautics
AICC	Action Item Control Card
AICS	Action Item Closeout Sheet
AID	Abbreviated Item Description Analog Input Differential Audit Item Disposition
AIDS	Airborne Integration Data System
AIL	Aileron Avionics Integration Laboratories
AILAS	Automatic Instrument Landing Approach System
AILS	Automatic Instrument Landing System
AIM	Automated Information Management
AIP	Avionics Integration Plan
AIR	Action Item Report Adaptive Intercommunication Requirement

AIS	Action Item Sheet Airlock Illumination Subassembly Analog-In Single-Ended
AIST	Agency of Industrial Science and Technology
AIU	Abort Interface Unit Avionics Interface Unit
AJ	Assembly Jig
AKM	Apogee Kick Motor
A/L	Approach and Landing/Autoland
AL	Airlock
AL/EMU	Airlock/Extravehicular Mobility Unit
ALAS	Approach Landing Autopilot System (Subsystem) Automatic Landing Autopilot Subsystem
ALC	Aft Load Controller Air Logistics Center Audio Load Compensator Automatic Level Control (Camera) Automatic Light Control
ALCA	Aft Load Control Assembly Automatic Level Control Assembly
ALDO	Activity Level Dependent Operations
ALE	Airport Landing Equipment Airport Lighting Equipment
ALERT	Acute Launch Emergency Reliability Tip
ALGOL	Algorithmic Language
ALIO	Activity Level Independent Operations
ALM	Alarm
ALPHA	Angle of Attack (Pitch) Right Ascension
ALPS	Approach and Landing Procedures Simulator
ALS	Advance Logistics System Airlock System (ECLS) Alternate Landing Site Approach Landing System Automatic Landing System
ALSA	Astronaut Life Support Assembly
ALSE	Astronaut Life Support Equipment
ALSS	Airlock Support System (Subsystem)
ALT	Alternate

ALT	Altitude
	Approach and Landing Test
ALTM	Altimeter
ALTR	Approach and Landing Test Requirement
ALU	Arithmetic Unit
AM	Actuator Mechanism
	Administration and Management Operations (KSC Dir.)
	Alpha Meter
	Ammeter
	Amplitude Modulation
	Antenna Management
AMA	Air Material Area (now Air Logistics Centers)
AMB	Ambient
AMC	Automatic Mixture Control
AMCA	Aft Motor Control Assembly
AMCP	ADL Master Control Program
AMDS	Advanced Missions Docking Subsystem
AMEC	Aft Master Events Controller
AMF	Abort Motor Facility
	Apogee Motor Firing
AMG	Activation Management Group
AMI	Absolute Memory Image
	Airspeed Mach Indicator
	Alpha/Mach Indicator
AML	Approved Materials List
AMLC	Asynchronous Multiline Controller
AMOOS	Advanced Maneuvering Orbit-to-Orbit Shuttle
AMP	Ampere
AMPR	Aeronautical Manufacturers Planning Report
	Aeronautical Manufacturers Progress Report
AMPS	Atmosphere, Magnetosphere, and Plasmas in Space
	Atmospheric Magnetospheric Plasma System
AMPTE	Active Magnetospheric Particle Tracer Explorers
AMR	Atlantic Missile Range
AMRV	Astronaut Maneuvering Vehicle
AMS	Acoustic Measurement System
	Actuation Mechanism Subsystem
	Amplifier

AMS	Amplifier Subsystem
AMST	Advanced Medium STOL Transport
AMTAS	Automatic Modal Tuning and Analysis System
AMTD	Automatic Magnetic Tape Dissemination
AMTF	Acoustic Model Test Facility
AMU	Astronaut Maneuvering Unit
AN	Army/Navy
ANA	Air Force-Navy Aeronautical Bulletin
ANAL	Analysis
ANC	Active Nutation Control
ANCE	Attitude Nutation Control Electronics
AND	Air Force-Navy Aeronautical Design Standard
ANG	Angle
ANIK	Canadian Communications Satellite
ANL	Analog
	Automatic Noise Limiter
ANLG	Analog
ANNUN	Annunciator
ANRA	Air Navigation Radio Aids
ANSI	American National Standards Institute
ANT	Antenna
	Antigua (ETR)
AO	Analog Output
	Announcement of Opportunity
AOA	Abort-Once-Around
	Angle of Attack
AOCE	Attitude and Orbit Control Electronics
AOCRD	Acceptance and Operational Checkout Requirements Document
AOCS	Attitude and Orbit Control Subsystem
AOD	Aircraft Operations Division (JCS)
	Analog Output Differential
	Assistant Operations Director
AOPM	Airline Operations Planning Model
AOS	Acquisition of Signal
AOT	Actual Operating Time
	Alignment Optical Telescope
	Avionics Operating Time

AOT	Avionics Overall Test
AP	Access Panel
	Air Pressure
	Atmospheric and Space Physics
	Attitude Processor
	Procurement, Supply and Transportation (KSC Dir.)
APA	Abort Programmer Assembly
	Allowance for Program Adjustment
APC	Advanced Propulsion Comparison Study
	Aft Power Controller
	Armored Personnel Carrier
	Automatic Phase Control
APCA	Aft Power Controller Assembly
APCC	Atmospheric Pressure and Composition Control
APD	Area Passive Dosimeter
APERT	Aperture
API	Air Position Indicator
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
	Approach Astrophysics Payload
	Approved
	Astrophysics Payload
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
APSAP	Auxiliary Propulsion System Aft Prod
APSS	Atmospheric Pressure Supply Subsystem

APT	Astronaut Preference Test
	Automatic Programmed Tool
APTI	Automatic Programmed Test Input
APU	Auxiliary Power Unit
	Auxiliary Propulsion Unit
APUS	Auxiliary Power Unit Subsystem
APUT	Auxiliary Power Unit Test
AQL	Acceptance Quality Level
AR	Acceptance Readiness
	Acceptance Review
	Atmospheric Revitalization
ARA	Attitude Reference Assembly
	AVVI Radar Altitude
ARABSAT	Saudi Arabian Comm. Satellite
ARAP	Astronaut Rescue Air Pack
ARC	Ames Research Center (Moffett Field, CA)
ARCOMSAT	Arab League Communications Satellite
ARCS	Aft Reaction Control System (Subsystem)
ARFDS	Automatic Reentry Flight Dynamics Simulator
ARIES	Astronomical Radio Interferometric Earth Surveying
ARINC	Aircraft Radio, Incorporated
ARMS	Automated Resources Management System
ARN	Additional Reference Number
ARP	As-Run Procedure
ARPCS	Atmospheric Revitalization Pressure Control System
ARPESH	Accurate and Reliable Prototype Earth Sensor Head
ARPF	Army Pulse Radiation Facility
ARR	Array
ARRS	Air Recovery and Rescue Service
ARS	Air Rescue Science
	Air Rescue Service
	Air Revitalization System
	Atmospheric Revitalization System
	Attitude Reference System
ARTCC	Air Route Traffic Control Center
AS	Ascent
	Attitude Set
ASA	Abort Sensor Assembly

ASA	Adapter Service Area Aerosurface Amplifier Aerosurface Servo Amplifier American Standards Association
ASAC	Aerodynamic Surface Assembly and Checkout
ASAP	Aerospace Safety Advisory Panel As Soon as Possible
ASAS	Aerodynamic Stability Augmentation Subsystem
ASB	Airlock Stowage Bag
ASC	Aerodynamics Surface Control Aerosurface Control Ascent Automatic Sensitivity Control
ASC/ABT	Ascent/Abort
ASCE	Airlock Signal Conditioning Electronics
ASCII	American Standard Code for Information Interchange
ASCP	Attitude Set Control Panel
ASCS	Atmospheric Storage and Control Section Attitude Stabilization and Control System
ASDE	Aerosurface Driver Electronics
ASDM	Aerosurface Driver/Monitor
ASDTIC	Analog Signal to Discrete Time Interval Converter
ASE	Advanced Space Engine Airborne Support Equipment Automatic Support Equipment
ASED	Avionics Systems Engineering Division (JSC)
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
ASL	Above Sea Level
ASLU	Antenna Select Logic Unit
ASM	Assembler Language
ASME	American Society of Mechanical Engineers



ASO	Ammonia System Operations
	Aviation Safety Office
ASP	Activity Scheduling Program
	Aerosurface Position
	Airborne Science Program
	Aspirator
ASPI	Aerosurface Position Indicator
ASPP	Atmospheric and Space Plasma Physics
ASPSL	ASPP Sortie Laboratory
ASQC	American Society for Quality Control
ASR	Air/Sea Rescue
	Automatic Speech Recognition
	Avionics System Review
ASRM	Abort Solid Rocket Motor
ASS	Airlock Support Subsystem
ASSESS	Airborne Science Shuttle Experiments System Simulation
	Airborne Science/Spacelab Experiment System
ASSY	Assembly
AST	Astronomy
ASTD	Advanced Space Technology Division
ASTF	Aeropropulsion System Test Facility
ASTG	Aerospace Test Group
ASTIA	Armed Services Technical Information Agency (now DDC)
ASTM	American Society for Testing Materials
ASTR	Astronomy
ASTS	Avionics System Test Specification
ASYM	Asymmetry
AT	Action Time
	Automatic TAEM
AT&T	American Telephone & Telegraph
ATA	Abort Timing Assembly
	Air Transport Association
	Avionics Test Article
ATC	Ablative Thrust Control
	Air Traffic Control
	Air Training Command
	ATE Computer
ATCA	Attitude Translation Control Assembly
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 Atmosphere Auxiliary Tape Memory
ATO	Abort-to-Orbit
ATOLL	Acceptance Test of Launch Language
ATP	Acceptance Test Procedure Activation Test Program Authority to Proceed
ATPA	Alpha Temperature Probe Assembly
ATR	Air Transport Radio Air Transport Rating Air Transportation Rack
ATS	Acceptance Test Specification Administrative Terminal System Advanced Technology Spacecraft Analog Tone Signal Applications Technology Satellite Asynchronous Task Storage Automatic Terminal System
ATT	Acceptance Thermal Test (Testing) Attitude
ATTEN	Attenuation
ATTS	Automatic Telemetry Tracking System
ATU	Audio Terminal Unit Audio Thermal Unit
ATVC	Ascent Thrust Vector Control Ascent Thrust Vector Controller Automatic Thrust Vector Control
ATVCD	Ascent Thrust Vector Control Driver
AU	Accounting Unit Addressable Unit
AUB	Aft Utility Bridge

AUD	Audio
AUG	Augment
AUST DOMSAT	Australian Communication Satellite
AUT	Automatic
AUTO	Automatic
AUTO-GOSS	Automated Ground Operations Scheduling System (also AGOSS)
AUTODIN	Automatic Digital Network
AUTOLAND	Automatic Landing
AUX	Auxiliary
AV	Average Value
	Avionics
AV BAY	Avionics Bay
AVC	Automatic Volume Control
AVE	Atmospheric Variability Experiment
	Avenal (TACAN Station)
AVG	Average
AVL	Address Validity
	Avionics Verification Laboratory
AVO	Avoid Verbal Orders
AVSM	Auxiliary Video Switch Matrix
AVSR	Avionics Verification Status Room
AVT	Acceptance Vibration Testing
AVVI	Altimeter Vertical Velocity Indicator
	Altitude/Vertical Velocity Indicator
AW	Airlock Wall
	Assembly Workstand
AWCS	Agency-Wide Coding Structure
	Automatic Work Control System
AWG	Activation Working Group
	American Wire Gage
AWL	Automated Wire List
AWS	Air Weather Service
	American Welding Society
	Automated Wiring System
AZ	Azimuth
AZS	Automatic Zero Set

## B

B	Bit
B&P	Budgetary and Planning
B&W	Black and White
B-1 DIV	B-1 Division (Rockwell)
B/A	Bank Angle Barometric Altimeter Buffer Amplifier
B/C	Bench Check
B/L	Baseline
B/O	Booster Orbiter Breakout Burnout
B/SC	Brake Skid Control
B/sec	Bits per Second
B/SMPL	Bits per Sample
B/U	Backup
B/V	Bleed Valve
B/W	Black and White
BA	Bank Angle Breathing Air
BAC	Boeing Aircraft Company Booster Assembly Contractor Buffer Access Card
BACS	Body Axis Coordinate System
BAI	Barometric Altitude Indicator
BAIR	Breathing Air
BAL	Balance
BAN	Budget Allocation Notice
BARB	Ballast Aerating Retrieval Boom
BARO	Barometer
BARS	Baseline Accounting and Reporting System
BASD	Ball Aerospace Systems Division
BASS	Backup Avionics System Software
BATT	Battery
BB	Breadboard
BBC	Before Business Clearance

BC	Battery Charger Binary Counter Bus Coupler
BCCT	Break Control Command Transducers
BCD	Binary Coded Decimal
BCE	Backup Control Electronics Bus Control Element
BCFS	Backup Flight Control System
BCH	Binary Coded Hexadecimal Bose-Chaudhuri-Hocquenghen (Computer Code)
BCN	Beacon
BCP	Base Condemnation Percent Benchmark Control Point
BCR	Bar Chart Report
BCRD	Basic Consolidated Requirements Document
BCRT	Binary Code Range Time
BCT	Bus Configuration Table
BCU	Bus Control Unit
BCWP	Budget Costs for Work Performed
BCWS	Budget Costs for Work Scheduled
BD	Band Binary Decoder Binary Digit Binary Discrete Board
BDA	Backup Drive Amplifier Bermuda Island Bermuda (STDN) Blast Danger Area
BDC	Bi-Directional Converter Bit Error Rate
BDCF	Baseline Data Collection Facility
BDCR	Baseline Document Change Request
BDD	Baseline Definition Document
BDT	Block Data Transfer
BDY	Body
BDYFLP	Body Flap
BECO	Booster Engine Cutoff
BER	Bit Error Rate

BESS	Biological Experiment Scientific Satellite Biomedical Experiment Scientific Satellite Biomedical Experiment Support Satellite
BEST	Booster Exhaust Study Test
BET	Best Estimate of Trajectory
BETA ANGLE	Sideslip Angle
BF	Beat Frequency Body Flap
BFC	Backup Flight Control Backup Flight Controller Body Flap Control
BFCS	Backup Flight Control System
BFL	Back Focal Length Bakersfield (TACAN Station)
BFO	Beat Frequency Oscillator
BFRP	Boron Fiber Reinforced Plastics
BFS	Backup Flight System
BH/MP	Breather Hose/Mouthpiece
BHD	Bulkhead
BHN	Brinell Hardness Number
BHP	Brake Horsepower
BHS	Base Heat Shield
BIO	BIO Research Module Biological
BIOMED	Biological Medicine (Medical)
BIS	Biocide Injection System
BIT	Binary Digit Built-in Test
BITE	Built-in Test Equipment
BIU	Buffer Interface Unit Bus Interface Unit
BK	Back Brake
BKHD	Bulkhead
BKNO <sub>3</sub>	Boron Potassium Nitrate
BLDG	Building
BLDN	Blowdown

BLK	Block
BLOW	Booster-Lift-Off Weight
BLR	Boiler
BLS	Bottom Left Side
BLV	Bleed Valve
BLWR	Blower
BM	Basal Metabolism
	Body Mounted
	Business (Branch) Manager
BMA	Body-Mounted Accelerometer
BMAG	Body-Mounted Attitude Gyro
BMAP	Buffer Map
BMB	Base Maintenance Building
BME	Bench Maintenance Equipment
BMFT	German D-1 Spacelab Payload
BMMD	Body Mass Measuring Device
BMS	Background Measurement Satellite
BMU	Bus Monitor Unit
BN	Ballistic Number
BO	Breakout Box
BOB	Best on Best
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
BOS	Backup Operating System
	Bright Object Sensor
BOT	Beginning of Tape
	BOTSWANA (STDN)
BOW	Bill of Work
BP	Back Pressure
	Bandpass
	Barber Pole
	Blood Pressure
	Boilerplate

BPD	Baseline Program Documentation
BPI	Bits per Inch
BPM	Beats per Minute
BPMS	Blood Pressure Measuring System
BPR	Bypass Ratio
BPS	Bits per Second
BPT	Body Point
BPV	Bipropellant Valve
BR	Bit Rate
BRAVO	Business Risk and Value of Operation in Space
BRCS	Basic Reference Coordinate System
BRG	Bearing
BRK	Brake
BRKT	Bracket
BRM	Biological Research Module
BRPM	Breath Rate per Minute
BRRS	Banana River Repeater Station
BRS	Bottom Right Side
BRT	Bright
BS	Block Specification
BSC	Brake Skid Controller
BSDP	Booster Stage Discharge Pressure
BSE	Booster Systems Engineer
BSI	Basic Shipping Instructions Boeing Services International, Inc.
BSM	Booster Separation Motors
BSR	Basic System Release Bite Status Register
BSRM	Booster Solid Rocket Motor
BSS	Backup System Services
BSTR	Booster
BT	Burn Time (Engine)
BTC	Binary Time Code Bus Tie Contractor
BTMS	Body Temperature Measuring System
BTR	Boom Time Remaining Burn Time Remaining Bus Transfer



BTU	Bus Terminal Unit
Btu	British Thermal Unit
BU	Backup
BUC	Backup Computer
	Buckhorn, CA (GSTDN)
BUFF	Buffer
BUOU	Backup Optical Unit
BUR	Backup Rate
BW	Bandwidth
	Bridgewire
BX	Box
BY	Budget Year
BYP	Bypass

## C

C	Candle
	Capacitance
	Celsius
	Centigrade
	Coefficient
	Complete
	Constant
	Cycle
	One Hundred
C&D	Control and Display
C&DH	Command and Data Handling
C&DS	Command and Data Simulator
C&M	Control and Monitoring
C&T	Communication and Tracking
C&TSS	Communication and Tracking Subsystem
C&W	Caution and Warning
C-BD	C-Band
C-Band	3900 to 6200 MHz
C-C	Carbon-Carbon
C-to-C	Computer-to-Computer
C/C	Combustion Chamber
C/D	Countdown
C/F	Center Frequency
C/L	Checklist
	Closed Loop
C/O	Changeout
	Checkout
	Contamination/Overpressure
	Cutoff
C/P	Cold Plate
C/R	Commutation Rate
C/S	Counts per Second
C/SCSC	Cost/Schedule Control Systems Criteria
C/W	Carrier Wave
	Caution and Warning
CA	California

CA	Carrier Aircraft Cone Angle Contingency Abort Contract Award Corrective Action Cost Account
CAB	Cabin Cabinet Civil Aeronautics Board Cost Audit Board
CACB	Center Aisle Connector Bracket
CACC	Communications and Configuration Console
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 and Display Unit
CAL	Calibrate, Calibration Cornell Aeronautical Laboratory
cal	Calories
CALC	Calculate
CAM	Carrier Aircraft Modification Computer Aided Manufacturing Computer Annunciation Matrix Content Addressable Memory
CAMR	Camera
CAN	Certification Analysis Network
CAP	Capacitor, Capacity CCMS Application Programs Computer Application Program Contractor Acquired Property Cost Account Package Crew Activity Plan
CAPCOM	Capsule Communicator
CAPRI	Captive Reset Ignitor
CAPS	Common Attitude Pointing System
CAPSIM	Captive Simulation

CAR	Certification Approval Request Configuration and Acceptance Review Corrective Action Request
CARID	Customer Acceptance Review Item Disposition
CARR	Customer Acceptance Readiness Review
CAS	Calibrated Airspeed Command Augmentation System Control Augmentation System
CASO	Cancellation Addendum Sales Order
CASP	CDS Application Support Programs
CASS	CITE Augmentation Support System
CATEG	Category
CAU	Command Acquisition Unit Command Activation Unit Customer Acquisition Unit
CAUT	Caution
CB	Center of Buoyancy Circuit Breaker Constant Bandwidth
CB/ac	Circuit Breaker (ac only)
CB/dc	Circuit Breaker (dc only)
CBA	C-Band Transponder Antenna
CBC	Complete Blood Count
CBE	Connector Bracket, Experiment
CBIL	Common and Bulk Items List
CBP	Connector Bracket Power
CBrF <sub>3</sub>	Bromotrifluoromethane (Fire-Extinguishing Material)
CBS	Connector Bracket Signal
CBSA	Cargo Bay Stowage Assembly
CBV	Cabin Bleed Valve
CBW	Constant Bandwidth
CBX	C-Band Transponder
CC	Carbon-Carbon Channel Controller Chief Counsel (KSC Directorate) Communications Control Cost Center Crew Compartment

CC	Crew(s) Certified
CCA	Communications Carrier Assembly
	Contract Change Authorization
	Coolant Control Assembly
	Contract Change Authorization
CCAFS	Cape Canaveral Air Force Station
CCATS	Command, Communication, and Telemetry System (Subsystem)
CCB	Change Control Board
	Configuration Change Board
	Configuration Control Board
CCBD	Configuration Control Board Directive
CCC	Central Computer Complex
	Communication(s) Control Console
	Complex Control Center
	Contaminant Control Cartridge
	Controller Checkout Console
CCD	Charge Coupled Device
	Checkout Command Decoder
	Constants Change Display
CCDR	Contractor Critical Design Review
CCE	Computer Command Engineer
CCF	Converter Compressor Facility
CCFF	Cape Canaveral Forecast Facility
CCIM	Command Computer Input Multiplexer
CCIR	International Radio Consultative Committee
CCL	Closed Circuit Loop
	Commonality Candidate List
	Configuration Control Logic
CCM	Controlled Carrier Modulation
	Crew/Cargo Module
CCME	Contract Change Mass Estimate
CCMS	Checkout, Control, and Monitor Subsystem (LPS)
	Command Control and Monitor System
CCN	Contract Change Negotiation
	Contract Change Notice
CCOH	Corrosive Contaminants, Oxygen, and Humidity
CCP	Center Console Panel

CCP	Charge Capacitance Probe Commercial Change Proposal Computer Control Panel Configuration Change Point Configuration Control Panel Configuration Control Phase 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 Central Control Station Command and Communication System Command and Control Subsystem Complex Control Set Computer Core Segment Console Communication System Contamination Control System
CCT	Computer Compatible Tape
CCTV	Closed Circuit Television
CCU	Camera Control Unit Central Control Unit Crewman Communications Umbilical
CCV	Chamber Coolant Valve
CCVA	Chamber Coolant Valve Actuator
CCW	Counterclockwise
CD	Candella (Luminous Intensity) Center Director (KSC Directorate) Coefficient of Drag Command Decoder MDM
CDA	Command and Data Acquisition Critical Design Audit
CDB	Central Data Buffer Command Data Base
CDBFR	Common Data Buffer
CDC	Confined Detonating Cord

CDC	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, and Test Data Systems
CDH	Constant Delta Height
CDI	Course Deviation Indicator
CDM	Communications/Data Manager
CDMS	Command and Data Management Subsystem
CDN	CDR Discrepancy Notice
CDNR	CDR Discrepancy Notice Record
CDP	Command Data Processor
CDPIS	Command Data Processing and 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
	Closeout Door System
	Collision Detector System
	Control Data Corporation
	Control Data System
CDSC	Communications Distribution and Switching Center
CDT	Central Daylight Time
	Command Descriptor Table
	Compressed Data Tape
	Configuration Data Table
	Countdown Time
CDU	Computer Display Unit
	Control and Display Unit
	Coupling Data Unit
	Coupling Display Unit
	CRT Display Unit
CDW	Command Data Word

CDW	Computer Data Word
CE	Change Evaluation Civil Engineering Control Element Cost Element Current Expendable
CEA	Control Electronics Assembly (for MMU)
CEC	Control Encoder Coupler
CECP	Compatibility Engineering Change Proposal
CEDC	Cyclic Error Detection Code
CEI	Configuration End Item Contract End Item
CEIAC	Coastal Engineering Information Analysis Center
CEIT	Crew Equipment Integration Test Crew Equipment Interface Test
CEQ	Council on Environmental Quality
CER	Cost Estimating Relationship
CERT	Certification
CES	Control Electronics System Crew Escape System
CF	Carrier Frequency Center Forward Centrifugal Force
CFD	Converter, Frequency to dc Voltage
CFE	Contractor Furnished Equipment
CFES	Continuous Flow Electrophoresis System
CFI	Card Format Identifier
CFM	Cubic Feet per Minute Customer Furnished Material
CFMF	Crip Flow Management Facility
CFP	Conceptual Flight Profile
CFR	Code Federal Regulation
CFRP	Carbon Fiber Reinforced Plastics
CFSTI	Clearinghouse for Scientific and Technical Information (now NTIS)
CFT	Common Facilities Test
CFY	Company Fiscal Year
CG	Center of Gravity



CGAU	Cabin Gas Analysis Unit
CGC	Command Guidance Computer
CGP	Central Grounding Point
CGSS	Cryogenic Gas Storage Subsystem
CH	Channel
CH <sub>4</sub>	Methane
CHAN	Channel
CHAR	Character
CHCS	Cabin Humidity Control Subsystem
CHG	Change
	Charge
CHGR	Charger
CHL	Certified Hardware List
	Channel
CHMBR	Chamber
CHR	Cooper-Harper Rating
CHUTE	Parachute
CHX	Cabin Heat Exchanger
CI	Certification Inspection
	Color Interior Film
	Configuration Inspection
	Configuration Item
	Continuous Interlock
	Crew Interface
CIA	Control Interface Assembly
CIAP	Climatic Impact Assessment Program
CIB	Change Impact Board
	Change Implementation Board
CIC	Command Interface Control
	Control and Information Center
CICC	Cargo Integration Control Center
CICU	Computer Interface Conditioning Unit
	Computer Interface Control Unit
CID	Computer Interface Device
CIDL	Configuration Item Data List
CIDR	Critical Intermediate Design Review
CIE	Communications Interface Equipment
CIF	Central Instrumentation Facility

CIG	Cable Integrity Group Communications and Interface Group
CIL	Critical Items List
CIM	Computer Input Multiplexer
CIN	Change Identification Number
CIR	Cargo Integration Review Circle Circulate Configuration Inspection Report
CIRC	Circularization Burn, OMS2
CIRCUM	Circumference
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 Controller Interface Unit
CIVT	Cargo Interface Verification Test
CK	Check
CKAFS	Cape Kennedy Air Force Station (Changed to CCAFS)
CKPT	Checkpoint
CKRA	Cape Kennedy Reference Atmosphere (Changed to CCRA)
CKS	Checks
CKT	Circuit
CL	Centerline Close (Closed) Closed Loop Closed Loop Control Logic Cluster Coefficient of Lift
Class	Classification
CLC	Change Letter Control
CLDST	Closed Loop Dynamic Stability Test

CLG	Ceiling
CLIP	Combined Laser Instrumentation Package
CLM	Care Logic Module
CLMC	Central Logistics Management Center
CLNR	Cleaner
CLR	Clear
CLRB	Cost Limit Review Board
CLS	Contingency Landing Site(s)
CLSO	Contingency Landing Support Officer
CLT	Closed Loop Test
CM	Cargo Management
	Center of Mass
	Configuration Management
	Consumables Management
	Control Monitor
	Crew Module
cm	Centimeter
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)
CMC	Crew Module Computer
	Command Module Computer
CMD	Command
CMD DCDR	Command Decoder
CMG	Control Moment Gyro
CMM	Condition Monitored Maintenance
CMN	Crewman
CMO	Configuration Management Office
CMOS	Complementary Metal Oxide Silicon
CMP	Configuration Management Plan
CMPR	Compare
CMPRT	Compartment
CMPTD	Computed
CMPTR	Computer
CMPTR ACTY	Computer Activity
CMR	Center Materials Representative
CMRB	Contractor Material Review Board

CMRR	Common Mode Rejection Ratio
CMS-2	Cambridge Monitoring System (IBM Computer Program)
CMSI	Checkout/Control and Monitor Subsystem Interface
CMTS	Computerized Maintenance Test System
CMV	Common Mode Voltage
CN	Change Notice
CNDS	Condensate
CNRL	Communications and Navigation Research Laboratory
CNSL	Console
CNTL	Control
CNTR	Counter
CNTRL	Control
	Controller
CNWDI	Critical Nuclear Weapons Design Information
CO	Cargo Operations (KSC Directorate)
	Change Order
	Contracting Officer
	Cutoff
CO <sub>2</sub>	Carbon Dioxide
COA	Center Operations Area
COAS	Course Optical Alignment Sight
	Crew(man) Optical Alignment Sight
COAX	Coaxial, Coaxial Cable
COB	Communications Office Building
COBE	Cosmic Background Explorer
COBOL	Common Business Oriented Language
COC	Close-Open-Close
COD	Center Operations Directorate (JSC)
COE	Corps of Engineer
C of F	Construction of Facilities
	Cost of Facilities
COFI	Checkout and Fault Isolation (on Board)
COFR	Certificate of Flight Readiness
COFW	Certificate of Flight Worthiness
COI	Coast Orbital Insertion
COIM	Checkout Interpreter (Software) Module
COL	Checkout Language
COLM	Column

COM	Common, Commonality Computer Output Microfiche
COM-M	Common Mode
COMAS	Combined Orbital Maneuvering and Abort System
COMAT	Compatibility of Materials
COMB	Combustion
COMEC	Communications Security
COMM	Communications
COMMAND	Computer Command Engineer
COMP	Compass Compensate Component Computation of Rendezvous Targeting Computer
COMPEN	Compensator
COMPL	Completed
COMPOOL	Common Data Pool
COMPR	Compress, Compressor
COMPT	Compartment
COMR&DSAT	Communication Research and Development Satellite
COMSAT	Communications Satellite
COMSEC	Communications Security
CON	Contact
CONCN	Concentration
COND	Condenser Condition, Conditioner
CONDR	Conditioner
CONF	Conference
CONFIG	Configuration
CONN	Connect, Connector
CONS	Console
CONSTR	Construct, Construction
CONT	Container Contingency Continue, Continued, Continuous
CONTAM	Contaminate
CONTIG	Contiguous
CONTR	Control, Controller

CONUS	Continental United States
CONV	Converter
COOP	Cooperative
COORD	Coordinate
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
	Cosine
COSATI	Committee on Scientific and Technical Information
COSI	Closeout System Installation
COSTA	Cost Accounting (Code)
COV	Cutoff Valve
CP	Candle Power
	Cargo Program Office (KSC)
	Cargo Projects Office (KSC)
	Center of Pressure
	Chemically Pure
	Circular Pitch
	Cold Plate
	Console Processor
	Control Panel
	Control Point
CP-DPO	Deployable Payloads Projects Office (KSC)
CP-FEO	Cargo Facilities and GSE Projects Office (KSC)
CP-PCO	Cargo Projects-Program Control Office
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

CPCI	Computer Program Configuration Item
CPCL	Computer Program Change Library
	Computer Program Control Library
CPCR	Computer Program Change Request
	Crew Procedures Change Request (Form 482)
CPD	Converter, Pulse to dc Voltage
	Crew Passive Dosimeter
	Crew Procedures Division
CPDDS	Computer Program Detail Design Specification
CPDR	Contractor's Preliminary Design Review
CPDS	Computer Program Design (or Development) Specification
	Crew Procedures Documentation System
CPE	Chief Program Engineer
CPEI	Computer Program End Item
CPES	Crew Procedures Evaluation (Evaluator) Simulator
CPF	Cargo Processing Facility
	Central Processing Facility
	Cost per Flight
CPFF	Cost Plus Fixed Fee
CPG	Change Planning Group
CPI	Cross Pointer Indicator
CPIF	Cost Plus Incentive Fee
CPL	Couple
CPLT	Complete
CPM	Computer Program Module
	Critical Path Method
	Cycles per Minute
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
	Computer Program Tapes
CPU	Central Processing Unit
	Computer Printer Unit
CQDR	Critical Qualification Design Review
CR	Card Reader

CR	Certification Requirement Change Request Configuration Review Control Room Crew
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 and Information System
CRISP	Computer Resources Integrated Support Plan
CRIT	Critical
CRM	Chemical Release Module
CRMD	Computer Resources Management Data
CRN	Cable Routing Rotation Contract Revision Number
CRO	Cathode Ray Oscillograph(s) or Oscilloscopes
CRP	Configuration Requirements Processing
CRPL	Cosmic Ray Physics Laboratory
CRR	Computer Run Report Critical Requirements Review
CRS	CO <sub>2</sub> Reduction Subsystem Course Cross
CRSFD	Crossfeed
CRSI	Ceramic Reusable Surface Insulation
CRSVR	Crossover
CRT	Cathode-Ray Tube
CRTG	Cartridge
CRW	Control Read/Write
CRYO	Cryogenic
CS	Change Status Checkout Station



CS	Common Set Consumables Status Control Segment Core Segment Crew Station STS Cargo Operations (KSC Directorate) Spacelab Operations Directorate
CSA	Cyclic Strain Attenuator
CSAM	Crinkled Single Aluminized Mylar
CSAS	Computerized Status Accounting System
CSAT	Combined Systems Acceptance Test
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 Control System Development Crew Systems Division
CSDD	Control Systems Development Division (JSC)
CSDF	Central Source Data File
CSDL	Charles Stark Draper Laboratory (MIT)
CSDT	Computer Software Data Tapes
CSE	Common Support Equipment Communications Systems Engineer Computer Support Equipment Configuration Switching Equipment
CSF	Central Supply Facility Cost Sensitivity Factor
CSI	Coelliptic Sequence Initiation Control Servo Input Crew Software Interface
CSIR	Computer Systems (Hardware/Software) Integration Review
CSIU	Core Segment Interface Unit
CSL	Command Signal Limiter Computer Status Lights Crew Systems Laboratory

CSM	Command Service Module Common Support Module Computer Status Matrix
CSOC	Consolidated Space Operations Center
CSOP	Crew Systems Operating Procedures
CSP	Computer Support Program
CSPU	Core Segment Processing Unit
CSR	Certification Status Report Check Signal Return Crew Station Review
CSR	Computers and Software Review Panel
CSR	Crew Station Review
CSS	Computer Subsystem Control Stick Steering Core Segment Simulator
CSSE	Control System Simulation Equipment
CST	Central Standard Time Combined Systems Test Contract Supplemental Tooling Crew Station Trainer Crew Systems Trainer (One-G Trainer)
CSTA	Crew Software Training Aid
CSTR	Canister
CSTS	Cryogenic Storage and Transfer System
CT	Crawler Transporter Current Transformer
CTA	Computer Technology Associates (GSFC) Controlled Thrust Assembly
CTC	Camera, Timing, and Control Chief Test Conductor
CTE	Central Timing Equipment
CTI	Critical Transportation Item
CTIS	Crawler Transporter Intercom System
CTL	Canoga Test Laboratory Central or Control
CTM	Contract Technical Manager Crystalline Transitional Material
CTN	Certification Test Network

CTP	Communications Timing Procedure Cyclic Time Processor
CTPD	Crew Training and Procedures Division (JSC)
CTR	Contract Technical Representative
CTRS	Component Test Requirements Specifications
CTS	Canadian Technology Satellite Communications and Tracking System Computer Test Set Computerized Training System Coordinate Transformation System
CTSD	Computer Test Sequences Document
CTTB	Checkout Techniques Test Bed
CTU	Central Timing Unit
CTWT	Counterweight
CU	Control Unit
cu	Cubic
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	Check Valve Coefficient of Variation Deployable Payloads Operation (KSC CO Dir.) Expendable Vehicles Operations (KSC Directorate)
CVAD	Converter, Voltage, ac to dc
CVAS	Configuration Verification Accounting System
CVDA	Converter, Voltage Discrete, ac
CVE	Complete Vehicle Erector
CVM	Control Valve Module
CVR	Change Verification Record Configuration Verification Review
CVRD	Converter, Variable Resistance, to dc Voltage
CVT	Communications Vector Table Concept Verification Testing

CW	Clockwise Command Word Continuous Wave
CWA	Caution and Warning Annunciator Clean Work Area Controlled Work Area
CWE	Caution and Warning Electronics
CWEA	Caution and Warning Electronic Assembly
CWEU	Caution and Warning Electronics Unit
CWFSP	Caution and Warning/Fire Suppression Panel
CWG	Constant Wear Garment
CWLM	Caution and Warning Limit Module
CWS	Caution and Warning Status Caution and Warning System
CWSU	Caution and Warning Status Unit Condensate Water Servicing Unit
CX	Color Exterior Film
CY	Calendar Year Cycle
CYL	Cylinder

## D

D	Deck
	Deliver (Delivery)
	Delta
	Down
	Drag
D&C	Display and Control (C&D preferred)
D&CS	Display and Controls Subsystem
D&O	Description and Operations
D&P	Drain and Purge
D/A	Digital to Analog
D/C	Displays/Controls
D/L	Data Link
	Deorbit/Landing
	Downlink
	Downlist
D/VD	Data/Voice Data
DA	Data Acquisition
	Deployment Assembly
	Distribution Assembly
	Double Amplitude
DA&D	Data Acquisition and Distribution
DAB	Data Acquisition Bus
DABS	Discrete Address Beacon System
DAC	Data Acquisition and Control
	Data Acquisition Camera
	Digital to Analog Converter
	Digital to Analytical Conversion
DACB	Data Acquisition and Control Buffer
DACBU	Data Acquisition and Control Buffer Unit
DACS	Data Acquisition and Control System
	Digital Acquisition and Control System
DACT	Disposable Absorption Collection Trunk
DADE	Data Acquisition and Decommuration Equipment
DADS	Dual Air Density Satellite
DAE	Data Acquisition Equipment
DAF	Data Acquisition Facility

DAF	Data Analysis Facility
DAFT	Data Acquisition Frequency Table
DAIS	Data Avionics Information System
DAL	Data Accession List
	Data Acquisition List
	Data Aided Loop
DAM	Double Aluminized Mylar
	Driver Amplifier Module
DAP	Data Acquisition Plan
	Digital Autopilot
DAR	Data Aided Receiver
	Deviation Approval Request
	Digital Autopilot Requirements
	Drawing Analysis Record
DARS	Data Acquisition and Reduction System
DARTS	Digital Automated Radar Tracking System
DAS	Data Acquisition System
	Data Analysis Station
	Digital Address System
	Digital Avionics System
	Documentation Accountability Sheet
DASA	Dual Aerosurface Servo Amplifier
DATE	Dynamics, Acoustics, and Thermal Environment
DAU	Data Acquisition Unit
	Digital Adapter Unit
DAV	Data Available
DAVL	Data Available-Low
DB	Data Base
	Data Bus
	Deadband
	Design Baseline
	Distribution Box
	Dry Bulb
dB	Decibel
DBC	Data Bus Control
	Data Bus Coupler
DBC1	DB with Respect to a Circular Polarized Antenna
DBE	Data Bus Element

DBFN	Data Base File Number Data Bus File Number
DBG	Data Bus Group
DBGMP	Data Bus Generation and Maintenance Package
DBI	Data Bus Interface Unit-Launch
DBIA	Data Bus Interface Adapter Data Bus Isolation Amplifier
DBIU	Data Bus Interface Unit
DBL	Double
DBM	Data Base Management
dBM	Decibels Referred to 1 Milliwatt
DBN	Data Bus Network
DBP	Design Baseline Program
DBRN	Data Bank Release Notice
DBS	Data Base System
DBUR	Data Bank Update Request
DBW	Data Bus Wire
dBW	Decibels Referred to 1 Watt
DC	Data Coordinator Development-Center Display Coupler
dc	Direct Current
DCA	Defense Communication Agency Design Change Authorization Digital Command Assembly Distribution Control Assembly
DCAA	Defense Contract Audit Agency
DCAR	Design Corrective Action Report
DCAS	Data Collection and Analysis System Defense Contract Administration Services
DCC	Data Computation Complex Document Control Center
DCCU	Digital Command and Control Unit Digital Communications and Control Unit Display Computer Control Unit
DCIB	Data Communication Input Buffer
DCIM/DSCIM	Display System Computer Input Multiplexer
DCIU	Digital Control and Interface Unit

DCKNG	Docking
DCL	Document Change List
DCM	DECOM Control Memory Direction Cosine Matrix Display and Control Module
DCMB	Development Configuration Management Board
DCN	Design Change Notice Document Change Notice Drawing Change Notice
DCNP	Document Change Notice Proposal
DCO	Detailed Checkout
DCOP	Detailed Checkout Procedures Displays, Controls, and Operations Procedures
DCP	Data Collection Platform Depot Condemnation Percent DEU Control Program Development Cost Plan
DCPEI	DEU Control Program End Item
DCR	Design Certification Review Design Change Request Design Concern Report Document Change Record (or Review)
DCS	Data Communication System Data Control System Design Communication System Design Criteria Specification Detail Checkout Specification(s) Digital Command System (Subsystem) Display and Control System Document Control System Dual Checkout Station
DCSI	Data and Control Signal Interface
DCSP	Digital Control Signal Processor
DCSU	Digital Computer Switching Unit
DCU	Digital Computer Unit Display and Control Unit
DCV	Direct Current Volts
DD	Data Depository



DD	Data Display Decoder Driver Dedicated Displays Directives Documentation Mechanical and Facilities Engineering (KSC DE Dir.)
DD&CS	Dedicated Display and Control Subsystem
DD/HH:MM:SS	Day/Hour:Minute:Second
DDA	Digital Differential Analyzer ICD Departure Authorization
DDAS	Digital Data Acquisition System
DDC	Data Distribution Center Defense Documentation Center Digital Data Cell
DDD	Design Definition Document Display Decoder Drive
DDDL	Digital Data Downlink
DDDU	Digital Decoder Driver Unit
DDI	Dedicated Display Indicator Discrete Data Input Discrete Digital Input
DDIS	Data Depository Index System
DDL	Data Downlink
DDM	Data Display Module Data Display Monitoring Discrete Data Management
DDMS	DOD Manager for Space Shuttle Support
DDO	Discrete Digital Output
DDP	Design Development Plan Digital Data Processing (Processor)
DDPC	Digital Data Processing Center (Complex)
DDPF	Dedicated Display Processing Function
DDPS	Digital Data Processing System
DDR	Data Discrepancy Report Design Development Record Detail Design Review
DDS	Data Display System Detailed Design Specification Documentation Distribution System

DDT&E	Design, Development, Test, and Engineering/Evaluation (Flights)
	Design, Development, Test, and Evaluation
DDTF	Dynamic Docking Test Facility
DDTS	Dynamic Docking Test System
DDU	Data Display Unit
	Decommutator Distribution Unit
	Display Driver Unit
DE	Design Engineering (KSC Dir.)
	Doppler Extractor
	Dynamics Explorer
DEACT	Deactivate
DEC	Declination
DECL	Direct Energy Conversion Laboratory (JSC)
DECOM	Decommutate, Decommutator
DECR	Decrease
DECS	Civil Engineering Office at Vandenberg
DECU	Data Exchange Control Unit
DED	Dedicate, Dedicated
DEDA	Data Entry and Display Assembly
DEE	Digital Events Evaluator
DEF	Definition
DEFL	Deflect
DEG	Degree
DEI	Design Engineering Identification
DEIS	Design Engineering Inspection Simulation Design Evaluation Inspection Simulator
DEL	Deliver, Delivery
	Deorbit, Entry, and Landing
DELTA-T	Difference in Temperature
DEMOD	Demodulate, Demodulator
DEMUX	Demultiplexer
DEORB	Deorbit
DEPL	Deploy
DEPRESS	Depressurize
DEPT	Department
DER	Drawing Error Report
DERIGID	Derigidize
DES	Data Exchange System

DES	Descend, Descent Design
DESAT	Desaturated
DESC	Descent
DESIG	Designate
DESPOT	Design Performance Optimization
DEST	Destination
DET	Detail Detent Digital Event Timer
DETN	Detection
DETR	Detector
DEU	Display Electronic(s) Unit
DEV	Develop, Development
DEVN	Deviation
DEW	Distant Early Warning
DF	Development Flight Development-Forward Direction Finder (Finding) Disassembly Facility Project Management (KSC DE Dir.)
DF-SPE-A	Shuttle Project Engineering Office
DFCS	Digital Flight Control Software (System)
DFE	Data Flow Engineer Direction Finding Equipment
DFG	Display Format Generator
DFI	Development Flight Instrumentation Discrete Input High
DFRC	Hugh L. Dryden Flight Research Center
DFR	Defrost
DFRN	Differential Differential Velocity
DFRN PRESS	Differential Pressure
DFS	Directional Finding System Dynamic Flight Simulator
DFVLR	Deutsche Forschungs-und Versuchsanstalt Fur Luft-und Raumfahrt
DG	Display Generator

DH	Decision Height
DHA	Design Hazards Analysis
DHS	Discrete Horizon Sensor
DI	Data Integrator
	Development Integration
	Discrete Input
	Display Interface
	Display Interface Processor (Software Functional Element)
DIA	Diameter
DIAG	Diagonal
DIAGN	Diagnose
DIDS	Defense Integrated Data System
DIF	Difference
	Discrete Increment Filter
DIFF	Differential
DIGI	Digital
DIH	Discrete Input High
DIL	Deliverable Items List
	Discrete Input Low
DIM	Design Interface Meeting
DIMEN	Dimension
DIP	Designated Inspection Point
	Display Input Processor
	Display Interface Processing (Processor)
DIPEC	Defense Industrial Plant Equipment Center
DIPL	Display Initial Program Load
DIR	Direct
	Document Information Record
DIS	Disagree
	Documentation Index System
DISAP	Disapproved
DISASSY	Disassembly
DISC	Discone
	Disconnect
	Discrete
DISCH	Discharge
DISENG	Disengage
DISP	Dispenser

DISP	Display Display Functions
DIST	Distribution
DISTR	Distributor
DIT	Data Id Table Dynamic Integrated Test
DIU	Digital Interface Unit
DIV	Division
DK	Deck Display/Keyboard Docking
DL	Development-Left Downlink Electronics Engineering (KSC DE Dir.)
DLAT	Destructive Lot Acceptance Testing
DLC	Direct Lift Control
DLS	Dynamic Load Simulator
DLSC	Defense Logistics Service Center
DLSM	Data Link Summary Message
DLTR	Data Link Terminal Repeater Data Link Transmission Repeater
DLY	Delay
DM	Data Manager Development Motor Developmental Instrumentation MDM-Mid Disassembly Manual Docking Mechanism Document, Documentation
DMA	Direct Memory Access Direct Memory Address Drive Motor Assembly
DMC	Data Management Computer Direct Maintenance Cost
DMCF	Deservicing, Maintenance, and Checkout Facility
DME	Distance Measuring Equipment
DMG	Data Management Group
DMIA	Dual Multiplexer Interface Adapter
DMIS	Data Management Information System

DML	Developmental Instrumentation MDM-Left
DMON	Discrete Monitoring
DMP	Deployable Maintenance Platform DEU Message Processor Dump
DMR	Developmental Instrumentation MDM-Right
DMS	Data Management System Docking Mechanism System (Subsystem) Docking Module Subsystem Dynamic Motion Simulator
DMSS	Data Management System Simulator (CVT)
DN	Discrepancy Notice Down
DNA	Does Not Apply
DNLK	Downlink (D/L preferred)
DNLT	Downlist
DNO	Descending Node Orbit
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
DOI	Descent Orbit Insertion
DOL	Department of Labor Discrete Output Low
DOMSAT	Domestic Satellite
DOP	Diver Operated Plug
DOS	Disk Operating System
DOSIM	Dosimeter
DOT	Department of Transportation Deployment Operations Team

DOT/CIAP	DOT Climatic Impact Assessment Program
DOY	Day of Year
DP	Data Processing
	Delayed Procurement
	Deployable Payload
	Design Proof
	Development Phase
	Differential Pressure
	Double Pole
	Double Precision
DP&S	Data Processing And Software
DP&SS	Data Processing and Software Subsystem
DP/DT	Delta Pressure/Delta Time
DPA	Data Processing Assembly
DPF	Differential Pressure Feedback
DPI	Detail Program Interrelationships
DPLR	Doppler
DPM	Dual Port Memory
DPNL	Distribution Panel
DPP	Deployment Pointing Panels
DPPS	Department of Defense (DOD) Project Specification
DPR	Definition Phase Review
DPS	Data Processing and Software
	Data Processing Software System
	Data Processing System (Subsystem)
DPT	Design Proof Test
DPY	Deploy
DR	Dead Reckoning
	Design Review
	Development-Right
	Discrepancy Report
	Discrete Register
	Dispatch Reliability
	Disposition Record
	Door
	Drive
DR&A	Data Requirements and Analysis
DRA	Document Release Authorization

DRB	Design Requirements Baseline Design Review Board
DRC	Data Reduction Center Discrete Rate Command
DRD	Data Requirement Description Data Requirements Document Detailed Requirements Document Document Requirement Description
DRF	Data Request Form Digital, Radio Frequency Documentation Requisition Form
DRG	Digital Ranging Generator
DRI	Data Rate Indicator
DRIRU	Dry Rotor Inertial Reference Unit
DRK	Display Request Keyboard
DRL	Data Requirements List Document Requirements List
DRM	Data Records Management Design Reference Mission Drawing Requirements Manual
DRN	Drain
DRO	Document Release Order
DROG	Drogue
DRR	Data Recorder/Reproducer Design Requirements Review
DRS	Data Relay Satellite Data Relay Station Digital Range Safety
DRSS	Discrepancy Report Squawk Sheet
DRT	Design Reference Timeline
DRUC	Disposition Record Unsatisfactory Condition
DS	Data Storage
DS&R	Data Storage and Retrieval
DSA	Defense Supply Agency
DSAD	Data Systems and Analysis Directorate (JSC)
DSB	Document Status Bulletin Double Side Band
DSC	Data Separator Card



DSC	Dedicated Signal Conditioner
DSCRM	Discriminator
DSCS	Defense Satellite Communications System
DSDU	Data Storage Distribution Unit
DSE	Data Storage Equipment
DSEA	Data Storage Electronics Assembly
DSIF	Deep Space Instrumentation Facility
DSKY	Display Keyboard
DSN	Deep Space Network
DSS	Detailed Secondary Objective
	Detailed Supplementary Objectives
DSP	Defense Support Program
DSPL	Display
DSPM	Designated Subsystems Project Manager
DSS	Data Systems Supervisor
	Deep Space Station
	Department Summary Schedule
	Documentation Support Services
DSSM	Dedicated Solar Sortie Mission
DST	Dimensional Special Tooling
	Dynamic Stability Test
DSTF	Delta Spin Test Facility
DSW	Door Switch
DT	Delayed Time
	Digital Test Measurement System
	Drop Tank
DTA	Development Test Article
DTC	Design to Cost
DTCS	Digital Test Command System
DTCW	Data Transfer Command Word
DTE	Data Transmission Equipment
	Digital Television Equipment
DTI	Development Test Instrumentation
DTMO	Development, Test, and Mission Operations
	Digital Test Measurement System
DTMS	Development, Test, and Mission Support (DTMO)
	Digital Test Measurement System
	Digital Test Monitoring System
DTO	Detailed Test Objective

DTP	Detail Test Plan
DTPR	Detailed Test Procedures
DTRD	Development Test Requirements Document
DTS	Data Transfer System
	Data Transmission System
DU	Display Unit
DUA	Digital Uplink Assembly
DUC	Digital Uplink Command
DUM	Dummy
DUPLX	Duplex
DUPLXR	Duplexer
DUR	Duration
DV	Designated Verification
	Designee for Verification
DVD	Delta Velocity Display
DVM	Digital Voltmeter
DVS	Design Verification Specification
	Digital Voice System
DVT	Design Verification Testing
DW	Data Word
DWG	Drawing
DWI	Data Word in
DWS	Disaster Warning Satellite
DWV	Dielectric Withstanding Voltage
DY	Deputy Director (KSC Directorate)
DYN	Dynamic

## E

E	East
	Elevation Angle
	Engine
	Exempt (from Traceability)
E&D	Engineering and Development
	Engineering and Development Directorate (JSC)
E-E	End-to-End
E-P	Electron/Proton
E/C	Encoder/Coupler
E/L	Entry/Landing
E/M	Engineering Model
E/O	Engineering/Operations
E/O-IMS	E/O-Information Management System
E/W	Energy to Weight Ratio
EA	Each
	Electronic Assembly
EAC	Energy Absorbing Capacity
	Estimate at Completion
EAD	Electrically Alterable Device
EADI	Electronic Attitude Director Indicator
EAFB	Edwards Air Force Base
	Elgin Air Force Base
	Ellington 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
EBCDC	Extended Binary Coded Decimal
EBD	Eyeballs Down (+GZ)
EBI	Eyeballs In (+GX)
EBL	Eyeballs Left (+GY)
EBO	Eyeballs Out (-GX)
EBR	Eyeballs Right (-GY)

EBS	Emergency Breathing Subsystem
EBU	Eyeballs Up (-GZ)
EBW	Electron Beam Welding
	Exploding Bridge Wire
EC	Element Contractor
	Engine Control
	Engine Cutoff
	Essentiality Code
	Events Controller
	Events Coupler
	Experiment Computer
ECA	Electronics Control Assembly
	Engineering Change Analysis
	Epoxy Curing Agent
ECAS	Experiment Computer Application Software
ECB	Engineering Change Board
	Event Control Block
	Events Control Buffer
ECC	Engineering Change Control
	Engineering Critical Component
ECCB	Engineering Change Control Board
ECD	Engineering Control Drawing
	Estimated Completion Date
ECEP	Experiment Checkout Equipment Processor
ECF	Element Charge Factor
	Equivalency Capability File
ECG	Electrocardiogram
ECI	Earth Centered Inertia (Inertials)
ECIO	Experiment Computer Input/Output
ECL	Entry Closed Loop
ECLS	Environmental Control and Life Support
ECLSS	Environmental Control and Life Support System (Subsystem)
ECN	Engineering Change Notice
ECO	Engine Combustion
	Engine Cutoff
	Engineering Change Order
ECOS	Experiment Computer Operating System
ECP	Engineering Change Program

ECP	Engineering Change Proposal Engineering Control Proposal Explicitly Coded Program
ECR	Engineering Change Request
ECRA	Engineering Change Request/Authorization
ECS	Engine Control System Environmental Control System (Subsystem)
ECU	Electronic Coupling Unit Environmental Control Unit
ED	Edge Distance Edit Engineering Directive Explosive Device
EDA	Electronic Display Assembly Elevation Drive Assembly
EDB	Environmental Data Book
EDC	Engineering Design Change
EDC(M)	Electrochemical Depolarized CO <sub>2</sub> (Module)
EDCP	Engineering Design Change Proposal
EDDR	Electron Dipole-Dipole Reservoir
EDF	Engineering Data File
EDLN	Engineering Development Logic Network
EDP	Electronic Data Processing
EDPE	Electronic Data Processing Equipment
EDPM	Electronic Data Processing Machine
EDR	Engineering Design Review
EDS	Electrical Distribution System Emergency Detection System Explosive Device System
EDT	Eastern Daylight Time
EDU	Engineering Development Unit
EDV	Electronic Depressurizing Valve
EDW	Edwards (TACAN Station) Edwards Air Force Base, CA (Deorb OPT site)
EE	End Effector
EECOM	Electrical, Environmental, and Communications Electrical, Environmental, Consumables, and Mechanical Systems (MPSR)

EED	Electro (Electrical) Explosive Device
EEE	Electronic, Electrical, Electromechanical
EEEU	End Effector Electronics Unit
EEG	Electroencephalogram
EEH	EMU Electrical Harness
EEIS	End-to-End Information System
EEL	Electrical Equipment List
EEM	Earth Entry Module
EENT	Eye, Ear, Nose, and Throat
EES	Ejection Escape Suit
	Emergency Ejection Suits
EET	Entry Elapsed Time
EETB	Electronic Electrical Termination Building
EEVT	Electrophoresis Equipment Verification Test
EFA	Experiment Flight Applications
EFCS	Earth Fixed Coordinate System
EFF	Efficiency
EFFGRO	Efficient Growth (Computer Program)
EFP	ESA Furnished Property
EFTO	Encrypted for Transmission Only
EG	Entry Guidance
EGA	Evolved Gas Analysis
EGC	Experiments Ground Computer
EGF	Electrical, Grapple Fixture
EGIL	Electrical, General Instrumentation, and Lighting Engineer
EGRET	Energetic Gamma Ray Explorer Telescope
EGRS	Egress
EGSE	Electrical Ground Support Equipment
EGT	Elapsed Ground Time
	Estimated Ground Time
	Exhaust Gas Temperature
EGUN	Fast Pulse Electron Gun
EH/M	Extension Hose/Mouthpiece
EHC	Electrical Heating Control
EHF	Extremely High Frequency
EHOT	External Hydrogen/Oxygen Tank
EHP	Effective Horsepower
	Electrical Horsepower

EHR	Earned Hour Ratio
EHS	Environmental Health Services
EHX	Experiment Dedicated Heat Exchanger
EI	Electromagnetic Interference
	Electronic Interface
	End Item
	Engineering Instruction
	Entry Interface
	Environmental Impact
EIA	Electrical Industries Association
EIASN	End Item Assembly Sequence Number
EIC	Experimental Intercom
EID	End Item Documentation
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
EIT	Entry Interface Time
EIU	Engine Interface Unit
EIVT	Electrical and Instrumentation Verification Test
	Electrical Interface Verification Test
	Electronic Installation Verification Test
EJN	Ejection
EKG	Electrocardiogram (Record)
	Electrocardiograph (Instrument)
EL	Elastic Limit
	Electroluminescent
	Elevate
	Elevation Angle
EL MECH	Electromechanical
ELACS	Extended Life Attitude Control System
ELB	Elbow
ELDISC	Electrical Disconnect
ELDV	Electrically Operated Depressurization Valve
ELEC	Electric

ELEC	Electronic
ELECT	Electrical
ELECTR	Electronics
ELEV	Elevon
ELF	Extremely Low Frequency (1 Hz to 3 kHz)
ELINT	Electromagnetic Intelligence
ELMCH	Electromechanical
ELMS	Elastic Loop Mobility System
	Elements
ELS	Earth Landing System (Subsystem)
	Eastern Launch Site
	Elevon Load System
ELSC	Earth Landing Sequence Controller
ELSS	Emergency Life Support System
ELT	Emergency Locator Transmitter
ELV	Earth Launch Vehicle
	Electrically Operated Valve
	Expendable Launch Vehicle
ELVN	Eleven
EM	Emergency
	Engineering Model
	Exception Monitor
EMA	Electromagnetic Analysis
EMC	Electromagnetic Compatibility
EMCC	Emergency Mission Control Center
EMCD	Electro-Mechanical Control Diagram
EMCI	Engineering Model Configuration Inspection
EMD	Entry Monitor Display
EMEC	Electromagnetic Effects Capability
	Electromagnetic Effects Compatibility
EMER	Emergency
EMES	Electrical, Mechanical, and Environmental Systems
EMF	Electromagnetic Force
	Electromotive Force
EMG	Electromyograph(gram)
	Surface Electromyograms
EMI	Electromagnetic Interference
EMIS	Emission



EMK	Emergency Medical Kit
EML	Electromagnetic Laboratory
EMN	Engineering Management Network
EMON	Exception Monitoring
EMP	Electromagnetic Pulse
	Equipment Mounting Plate
EMPGS	Electrical/Mechanical Power Generation Subsystem
EMR	Engine Mixture Ratio
EMRL	Equipment Maintenance Requirements List
EMS	Electromagnetic Susceptibility
	Engineering Master Schedule
	Entry Monitor Subsystem
	Entry Monitoring System
EMSS	Electromagnetic Servoactuator System
EMT	Electro-Mechanical Test
EMU	Engineering Model Unit
	Extended Memory Unit
	Extravehicular Mobility Unit
EMU-TV	Extravehicular Mobility Unit - Television
E-MUX	Electrical Multiplex
ENA	Enable
ENC	Encode
ENCD	Encode
ENCL	Enclose
END EFF	End Effector
ENDF	Evaluated Neutron Data File
ENG	Electronystagnogram
	Engine, Engineer
ENGR	Engineer
ENGRG	Engineering
ENT	Entry
ENVIR	Environment, Environmental
EO	Earth Observation
	Earth Orbit
	Engineering Order
	Engine Out
	Equal Opportunity Program Office (KSC Directorate)
EOC	End of Contract
	Engine Order Capability

EOC	Engine-out Capability
EOD	Estimated on Dock Explosive Ordnance Disposal
EODB	End of Data Block
EOF	End of File
EOG	Electroculogram
EOHT	External Oxygen and Hydrogen Tanks
EOI	Earth Orbit Insertion
EOL	End of Line
EOM	End of Message End of Mission Engineering Operations Manual Equations of Motion
EOMF	End of Minor Frame
EOP	Earth and Ocean Physics Emergency Oxygen Pack Experiments of Opportunity
EOPAP	Earth and Ocean Physics Application Program
EOR	Earth Orbit Rendezvous
EOS	Earth Observation Satellite Earth Orbit Shuttle Emergency Oxygen Supply Emergency Oxygen System Extended Operating System
EOT	End of Tape End of Transmission
EOW	Energy over Weight
EP	Elbow Pitch Electrical Power Environmental Protective Plan
EPA	Environmental Protection Agency
EPC	Error Protection Code External Power Contractor
EPCDC	Electrical Power Conditioning, Distribution, and Control
EPD	Electrical Power Distribution Emergency Procedures Document
EPDB	Electrical Power Distribution Box

EPDB	Experiment Power Distribution Box
EPDC	Electrical Power Distribution and Control
EPDCS	Electrical Power Distribution and Control System (Subsystem)
EPDS	Electrical Power and Distribution Subsystem Electrical Power Distribution System
EPG	Electrical Power Generator
EPL	Electrical Power Level Electronic, Electrical, and Electromechanical Parts List Emergency Power Level
EPMS	Engineering Performance Management System
EPO	Element Project Office
EPOC	External Payload Operations Center
EPPS	Electrical Power/Pyro Sequential System
EPR	Engine Pressure Ratio
EPRN	Emergency Program Release Notice
EPROM	Erasable Programmable Read Only Memory
EPS	Electrical Power System (Subsystem) Experimental Power Supply
EPSP	Experiment Power Switching Panel
EPT	Emergency Procedure Trainer Ethylene Propylene Terpolymer
EPTU	Events per Time Unit
EPWG	Environmental Projects Working Group
EQ	Equivalent
EQE	Event Queue Element
EQL	Equal
EQUIP	Equipment
EQUIV	Equivalent
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
ERC	Event Recorder
ERCA	Electrochemically Regenerable CO <sub>2</sub> Absorber

EREP	Earth Resources Package
ERG	Ergometer
ERNO	'Entwicklungs Ring Nord' Organization, Space Division of European Consortium, VFW-Fokker-Mannheim, Germany (Spacelab Contractor)
ERO	Engineering Release Operations
ERP	Effectuated Radiative Power Effective Radiation Power Eye Reference Point
ERPM	Engineering Requirements and Procedures Manual
ERR	Error
ERR CNTR	Error Counter
ERRC	Expendability/Recoverability/Repair Capability
ERS	Earth Recovery Subsystem Engineering Release System Entry and Recovery Simulation
ERSI	Elastomeric Reusable Surface Insulation
ERSIR	Earth Resources Shuttle Imaging Radar
ERTS	Earth Resources Technology Satellite
ERU	Earth Rate Unit
ERV	Expiratory Reserve Volume
ES	Escape System Experiment Segment
ESA	Engineering Supply Area Engineering Support Assembly European Space Agency Explosive Safe Area
ESB	Essential Switching Box
ESC	Escape
ESCA	Electron Spectroscopy for Chemical Analysis
ESCU	Extended Service and Cooling Umbilical
ESD	Emergency Shutdown Experiment Systems Division
ESDAC	European Space Data Center (Darmstadt, Germany)
ESDU	Event Storage and Distribution Unit
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
ESO	Event Sequence Override
ESOC	European Space Operations Center
ESOW	Engineering Statement of Work
ESP	Electroshock Protection
	Engine Service Platforms
	Experiment Sensing Platform
ESPS	Experiment Segment Pallet Simulator
ESR	Effective Sunrise
	Engineering Support Request
ESRIN	European Space Research Institute
ESRO	European Space Research Organization
ESS	Effective Sunset
	Environmental Support System
	Essential
	Experiment Subsystem Simulator
ESSA	Environmental Sciences Services Administration
EST	Eastern Standard Time
	Estimate(d)
ESTA	Electronic System Test Equipment
	Escape System Test Article
ESTEC	European Space Research and Technology Center
	European Space Technology Center
ESTL	Electronic Systems Test Laboratory
ESV	Emergency Shutoff Valve
ESVS	Escape Suit Ventilation System
	Escape System Ventilation System
ESW	Engine Status Word
ET	Edge Thickness
	Elapsed Time
	Elevated Temperature
	Event Timer
	External Tank
ET-SEP	External Tank Separation
ETA	Environmental Test Article
	Estimated Time of Arrival
	Estimated Time to Acquisition
	Explosive Transfer Assembly
	External Tank Attachment

ETB	Equipment Transfer Bag
ETC	Earth Terrain Camera
	Estimate to Completion
	Greenbelt, Maryland (STDN Site)
ETCO	Equipment Transfer/Change Order
ETD	Electrical Terminal Distributor
	Estimated Turnover Date
	External Tank Door
ETE	End-to-End
ETI	Elapsed Time Indicator
ETLOW	External Tank Lift-Off Weight
ETM	Elapsed Time Meter
ETP	Equipment Test Plan
ETR	Eastern Test Range (ESME preferred)
ETROD	Eastern Test Range Operations Directive
ETS	Electrical Test Set
	Energy Transfer System
	External Tank System (Subsystem)
ETSS	External Tank Separation Subsystem
ETVA	External Tank Vent Arm
EU	Electronic Unit
	Engineering Units
	Experimental Unit
EUROCOMSAT	European Consortium Communications Satellite
EUV	Extreme Ultraviolet
EUVE	Extreme Ultraviolet Explorer
EV	Expendable Vehicles
	Extravehicular
eV	Electron Volts
EVA	Earned Value Analysis
	Extravehicular Activity
EVAL	Earth Viewing Applications Laboratory
	Evaluate, Evaluation
EVAP	Evaporator
EVATA	Extravehicular Activity Translational Aid
EVC	Extravehicular Communications
EVCON	Events Control (Subsystem)

EVCS	Extravehicular Communications System
EVCU	Extravehicular Communications Umbilical
EVD	External Visual Display
EVF	Equipment Visibility File
EVLSS	Extravehicular Life Support System
EVM	Earth Viewing Module
EVMU	Extra Vehicular Mobility Unit
EVO	Engineering Verification Order
EVS	Equipment Visibility System
	Extravehicular Suit
EVSC	Extravehicular Suit Communications
EVSS	Extravehicular Space Suit
EVSU	Extravehicular Space Unit
EVT	Engineering Verification Test
	Extravehicular Transfer
EVVA	Extravehicular Visor Assembly
E/W	Energy Over Weight
EWA	Estimated Warehouse Arrival
EWE	Emergency Window Escape
EWO	Engineering Work Order
EWR	Engineering Work Request
EX	Executive Management Office (KSC Directorate)
EXC	Experiment Computer
EXCH	Exchange
EXEC	Execute
EXH	Exhaust
EXO	Experiment Operator (in Spacelab)
EXP	Expand
	Experiment
	Exposure
EXPEN	Expendable
EXT	Experiment Terminal (Operator Console on Spacelab)
	Extension
	External
EXTD	Extend
EXTER	External
EXTGH	Extinguish

F

F	Fahrenheit
	Failure
	Farad (SI Unit of Capacitance)
	Female
	Forward
	Front
F&E	Facility and Environment
F/A	Failure Analysis
	Fuel-Air
F/C	Fit Check
	Flight Controller
	Fuel Cells
F/D	Fill/Drain
F/E	Full/Empty
F/F	Fill/Full, Full/Fill
F/O	Fuel/Oxidizer Ratio
F/R	Flared Rudder
FA	Failure Analysis
	Final Approach
	Final Assembly
	Flight Aft
	Flight Critical Aft
	Fully Automatic
FA/COSI	Final Assembly and Closeout System Installation
FAA	False Alarm Avoidance
	Federal Aviation Administration
FAB	Fabricate, Fabrication
FAC	Facility
FACI	First Article Configuration Inspection
FACO	Fabrication and Acceptance Checkout
	Factory Acceptance Checkout
	Factory Assembly and Checkout
	Final Assembly Checkout
FACS	Facilities Control
	Finance and Control System
FACT	Flexible Automatic Circuit Tester
FAD	Final Approach Display
FAF	First Aerodynamic Flight



FAIR	Fabrication, Assembly, and Inspection Record
FAL	First Approach and Landing (Test)
FAM	Familiarization
FAMOS	Flight Acceleration Monitor Only System
FAO	Flight Activities Officer
FAP	Final Approach Plane
FAR	Failure Analysis Report
	Federal Aviation Regulation
	Final Acceptance Review
	Flight Acceptance Review
FASCOS	Flight Acceleration Safety Cutoff System
FAT	Flight Attitude Table
FAWG	Flight Assignment Working Group
FAX	Facsimile Transmission
FB	Feedback
	Final Braking
FBAS	Fixed Base Aft Station
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
	Flight Critical
	Fuel Cell
FCA	Fluids Control Assembly
	Frequency Control Analysis
	Functional Compatibility Analysis
	Functional Configuration Audit
FCAF	Flight Crew Accommodations Facility
FCAP	Flight Control Applications Program
FCC	Federal Communications Commission
	Flat Conductor Cable
	Flight Control Computer
	Flight Crew Compartment
FCCP	Firm Contract Cost Proposal
FCD	Flight Control Division (JSC)

FCDB	Flight Control Data Bus
FCE	Flight Control Equipment Flight Crew Equipment
FCEF	Flight Crew Equipment Facility
FCEI	Facility Contractor End Item
FCF	First Captive Flight Flight Critical Forward Functional Check Flight
FCFM	Flight Combustion Facility Monitor
FCH	Flight Controllers Handbook
FCHL	Flight Control Hydraulics Laboratory
FCI	Flight Control Indicator Functional Configuration Identification
FCIM	Flight Control Interface Module
FCIP	Flight Cargo Implementation Plan
FCL	Freon Coolant Line Freon Coolant Loop
FCMU	Foot Controlled Maneuvering Unit
FCN	Function
FCO	Final Checkout Functional Checkout
FCOH	Flight Controllers Operational Handbook
FCOS	Flight Computer Operating System (Orbiter) Flight Control Operating System Flight Control Operational Software
FCP	Failure Correction Panel Firm Cost Proposal Flight Correction Proposal Fuel Cell Power (Plant)
FCPS	Fuel Cell Power System (Subsystem)
FCR	Final Configuration Review Flight Configuration Review Flight Control Room
FCRA	Fecal Collection Receptacle Assembly
FCRT	Flight Display CRT

FCS	Fecal Containment System Federal Communications System Flight Control System (Subsystem) Flight Crew System
FCSM	Flight Combustion Stability Monitor
FCSS	Fuel Cell Servicing System
FCT	Flight Control Team Flight Crew Trainer Fuel Cell Test
FCTB	Flight Crew Training Building
FCTF	Fuel Cell Test Facility
FCTS	Flight Crew Trainer Simulator
FCU	Fluid Checkout Unit
FCW	Format Control Words
FD	Fault Detection Feed Flight Day Flight Deck Flight Director Freeze Dried Function Designator
FD WMR	Food Warmer
FDA	Fault Detection and Annunciation Flight Deck Assembly (FDF)
FDAI	Flight Director Attitude Indicator
FDB	Fahrenheit Dry Bulb
Fddb	Function Designator Data Base
FDF	Flight Data File
FDI	Failure Detector Indicator Fault Detection and Identification Fault Detection and Isolation
FDIIR	Fault Detection, Isolation, Identification, and Recompensation
FDIR	Fault Detection Identification/Isolation and Recovery/Recognition
FDL	Flight Director Loop
FDLN	Feedline
FDM	Flight Data Manager

FDM	Frequency Data Multiplexer Frequency Division Multiplexing
FDO	Fee Determination Official Flight Dynamics Officer
FDOR	Flight Design Operations Review
FDR	Final Design Review Flight Data Recorder Functional Design Review
FDRI	Flight Director Rate Indicator
FDS	Flight Design and Scheduling Flight Design System Flight Dynamics Simulator Flight Dynamics Software/System Fluid Distribution System Functional Design Specifications
FDSC	Flight Dynamics Simulation Complex Flight Dynamics Situation Complex
FDU	Fluid Distribution Unit
FDX	Full Duplex
FEA	Failure Effects Analysis
FEAT	Final Engineering Acceptance Test
FEB	Forward Equipment Bay
FEC	Field Engineering Change Forward Events Controller
FED	Flight Events Demonstration
FEDP	Facility and Equipment Design Plan
FEID	Flight Equipment Interface Device Functional Engineering Interface Device
FEM	Finite Element Method
FEMCPL	Facilities and Envir. Measurement Comp. Parts List
FEP	Floral Ethel Propane Fluorinated Ethylene Propylene Front End Processor
FERD	Facility and Equipment Requirements Document
FES	Flash Evaporator System Flight Element Set
FESL	Failure Effects Summary List
FET	Field Effect Transistor Flight Elapsed Time
FEWG	Flight Evaluation Working Group

FF	Flight Forward Flip Flop Free Flight
FFBD	Functional Flow Block Diagram
FFC	Final Flight Certification
FFD	Fixed Format Display Functional Flow Diagram
FFM	Free-Flying (Experiment) Module
FFP	Firmed Fixed Price
FFTO	Free-Flying Teleoperator
FH	Flex Hose
FHC	Flight Half Coupling
FHD	Fixed Head Disk
FHF	First Horizontal Flight
FHO	Failed Handover
FHP	Fuel High Pressure
FHS	Forward Heat Shield
FI	Fault Identification Flight Instrumentation Formal Inspection
FIAR	Failure Investigation Action Report
FID	Failure Identification Flight Implementation Directive
FIDO	Flight Dynamics Officer
FIE	Flight Instrumentation Engineer
FIFO	First in—First Out (High Speed Data Buffers)
FIG	Figure
FIIG	Federal Item Identification Guide
FIL	Filament
FILE	Future Identification and Location Experiment
FIO	Furnished and Installed by Others
FIR	Fuel Indicating Reading
FIS	Facility Interface Sheets
FIT	Fault Isolation Test First Computer Interface Tester
FITH	Fire-in-the-Hole
FIV	Fuel Isolation Valve
FKB	Flight Display Keyboard

FL	Fail
	Feed Lines
	Flowline
FL MECH	Fluid Mechanical
FLAP	Flight Application Software
FLC	Federal Library Committee
	Forward Load Control
FLCA	Forward Load Control Assembly
FLD	Field
FLEX	Flexible
FLG	Flag
	Flange
FLLK	Frustum Lifting Lug Kit
FLN	Fuel Line
FLOT	Flotation
FLP	Flap
FLPS	Flight Load Preparation System
FLR	Failure
	Flare
FLS	Flight Surgeon
FLSC	Flexible Linear Shaped Charge
FLT	Flight
	Floating
FLTR	Filter
FLTSATCOM	Fleet Satellite Communications
FLUOR	Fluorescent
FLW	Fellows (TACAN Station)
FM	Flight Model
	Frequency Modulation (Modulated)
FM/FM	Frequency Modulation/Frequency Multiplexing
FM/PM	Frequency Modulation/Phase Modulation
FMA	Failure Mode Analysis
FMAHTS	Flight Manifest and Hardware Tracking System
FMANTS	Flight Manifest
FMC	Food Machinery Corporation
FMCF	First Manned Captive Flight
FMDM	Flex Multiplexer/Demultiplexer
FMEA	Failure Modes and Effects Analysis

FMEC	Forward Master Events Controller
FMECA	Failure Mode, Effects, and Criticality Analysis
FML	Fault Message Line
	Final Materials List
FMO	Flight Medical Officer
FMOF	First Manned Orbital Flight
FMOFEV	First Manned Orbital Flight with EVA
FMOFPL	First Manned Orbital Flight with Payload
FMR	Field Modification Request
	Function Max Rate
FMS	Food Management System (Subsystem)
F MSP	Frequency Modulation Signal Processor
FMT	Flight Management Team
	Format
FMX	FM Transmitter
FND	Facility Need Date
FNL	Final
FNT	Failure Notification Telex
FO	Fail Operational
	Fiber Optics
	Functional Objective
FO/FS	Fail-Operational/Fail-Safe
FOB	Flight Operations Building
	Free on Board
FOC	Focus
	Full Operational Capability
FOD	Flight Operations Directorate (JSC)
FOE	Flight Operations Engineer
FOF	First Operational Flight
	First Orbital Flight
	Flight Operations Facilities
FOIH	Flight Operations Integration Handbook
FOMR	Flight Operations Management Room
FOP	Flight Operations Panel
	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 Force
FORTRAN	Formula Translation
FGS	Flight Operations Support
FOSDIC	Film Optical Sensing Device for Input to Computers
FOSO	Flight Operations Scheduling Officer
FOSP	Flight Operations Support Personnel
FOST	Flight Operations Support Team
FOT	Flight Operations Team
FOV	Field of View (Vision) First Orbital Vehicle
FP	Fine Pointing Fixed Point Flight Plan Freezing Point Fuel Pressure Function Path
FPB	Fuel Preburner
FPBOV	Fuel Preburner and Oxidizer Valve
FPC	Fluids Pressure Control Forward Power Controller
FPCA	Forward Power Control Assembly
FPE	Functional Program Element
FPEG	Fast Pulse Electron Gun
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 Flight per Second



FPS	Forward Power Supply
	Frames per Second
FPU	Floating Point Unit
FPV	Flow Proportioning Valve
FQ	Flight Qualification
FQI	Flight Qualification Instrumentation
FQR	Flight Qualification Recorder
	Flight Qualification Review
FQT	Formal Qualification Test
FR	Firing Room
	Flight Rule
	Frame
FRAGNET	Fragmented Network
FRB	Failure Review Board
FRC	Flight Research Center, California
FRCS	Forward Reaction Control System (Subsystem)
FRD	Flight Requirements Document
FRE	Flight Related Element
	Format Request Element
FREQ	Frequency
FREQ CONV	Frequency Converter
FREQ DIV	Frequency Divider
FRF	Flight Readiness Firing
FRFT	Flight Readiness Firing Test
FRJD	Forward Reaction Jet Driver
FRL	Frame Reference Line
	Fuselage Reference Line
FRMT	Format
FRP	Fuselage Reference Plane
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
FRZR	Freezer
FS	Fail-Safe

FS	Fail to Sync Fault Summary Federal Specification Fire Suppression Flight System Freon Servicer Full Scale Functional Schematic Fuselage Station
FSAA	Flight Simulator for Advanced Aircraft
FSC	Federal Stock Classification
FSCM	Federal Supply Code for Manufacturers
FSCP	Fire Sensor Control Panel
FSD	Flight Simulation Division (JSC) Full Scale Development
FSE	Flight Simulation Engineer
FSF	First Static Firing
FSGS	Flare/Shallow Glide Slope
FSI	Final Systems Installation
FSIM	Functional Simulator
FSIWG	Flight System Interface Working Group
FSK	Frequency Shift Keyed (Keying)
FSL	Flight Simulation Laboratory Flight Systems Laboratory
FSLO	First Spacelab Payload
FSLT	First Sea Level Test
FSM	Fuel Supply Module
FSN	Federal Stock Number
FSO	Functional Supplementary Objective
FSOH	Flight Support Operations Handbook
FSP	Fault Summary Page
FSR	Final System Release Flight Specific Requirements
FSRR	Flight Software Readiness Review Flight System Readiness Review
FSRS	Flight System Recording System
FSS	Field Spectrometer System Fire Suppression System

FSS	Fixed Service Structure Flight Support Station (for MMU) Flight Support Structure Flight Support System Flight Systems Simulator
FSSR	Flight Systems Software Requirements Functional Subsystem Software Requirements
FSTE	Factory Special Test Equipment
FSU	Freon Servicing Unit
FSW	Flight Software
FT	Flight Team Flight Test Formal Training Functional Test
ft	Feet
FT&C	Formal Training and Certification
ft/sec	Feet per Second
FTA	Fatigue Test Article Fault Tree Analysis Flight Test Article
FTC	Flight Test Conductor Florida Test Center (MDAC)
FTE	Factory Test Equipment Flight Test Engineer Forced Test End
FTIS	Flight Test Instrumentation System
FTO	Flight Test Objective Functional Test Objective
FTOH	Flight Team Operations Handbook Flight Test Operations Handbook
FTP	Flight Test Procedure Full Throttle Position Function Test Progress Functional Test Program
FTR	Flight Test Requirement Functional Test Requirement
FTRD	Flight Test Requirements Document Functional Test Requirements Document

FTS	Federal Telecommunications System Flight Test Station Flight Test System Functional Test Specifications
FU	Flight Unit Fuel
FUB	Forward Utility Bridge
FUD	First Use Date
FUNC	Function
FUNCT	Functional
FUO	Follow-up Output
FUS	Fuselage
FUS/LF	Fuselage, Lower Forward
FUS/UF	Fuselage, Upper Forward
FUSLG	Fuselage
FV	Flight Version Front View
FVF	First Vertical Flight
FVMS	Fluid Volume Measurement System
FVV	Facility Verification Vehicle
FW	Flag Word Fuel Wasting
FWB	Fahrenheit Wet Bulb
FWD	Forward
FWD HT SHLD	Forward Heat Shield
FWG	Facility Working Group
FWW	Food, Water, and Waste
FWWM	Food, Water, and Waste Management
FWWMS	Food, Water, and Waste Management System (Subsystem)
FXD	Fixed
FY	Fiscal Year

## G

G	Giga (Billion)
	Gravity
	Units of Gravitational Force
g	Gram
G&A	General and Administrative
G&C	Guidance and Control
G&N	Guidance and Navigation
G&NS	Guidance and Navigation Subsystem
G-A	Ground-to-Air
G-G	Ground-to-Ground
G-II	Gulfstream II (Shuttle Training Aircraft)
G-MEM	General Memory
	GPC-Memory
G-V	Gravity-Velocity
G/A	Ground-to-Air
G/E	Graphite Epoxy
G/G	Ground-to-Ground
G/T	Antenna Gain-to-Noise Temperature Ratio
GA	Gage
	General Assembly
	Glide Angle
	Gyro Assembly
GA&CS	Ground Acquisition and Command Station
GAC	Ground Attitude Control
	Grumman Aerospace Corporation
GACU	Ground Air Conditioning Unit
	Ground Avionics Cooling Unit
GAIN	Graphic Aids for Investigating Networks
GAM	Gamma
GAO	General Accounting Office
GAP	GOAL Automatic Procedure
GAPL	Group Assembly Parts List
GAS	Get-Away Special
GASPI	Guidance Attitude Space Position Indicator
GATP	Ground Acceptance/Article Test Procedure
GATT	Gate Assisted Turnoff Thyristor

GBI	Grand Bahama Island
GBL	Government Bill of Lading
GBR	Glass Bead Rating
GBS	Ground Based Software
GC	Gigacycles (1000 Megacycles)
	Ground Control
	Guidance Control
	Gyrocompassing
GCA	Ground Controlled Approach
GCC	Ground Communications Coordinator
	Ground Control Center
CCCC	Ground Control Computer Center
GCCO	Ground Control Checkout
GCD	Gyro-Compass, Desired Cluster Orientation
GCDC	Ground Checkout Display and Control
GCDCS	Ground Checkout Display and Control System
GCE	Ground Checkout Equipment
GCF	Ground Communications Facility
GCHX	Ground Cooling Heat Exchanger
GCI	Ground Controlled Interception
GCIL	Ground Control Interface Logic
GCILC	Ground Command Interface Logic Controller
GCILU	Ground Control Interface Logic Unit
GCL	Ground Control Landing
	Ground Coolant Loop
GCN	Ground Communications Network (A/G Worldwide Net)
	Ground Control Network
GCO	Ground Checkout
GCOS	General Computer Operational System
	Ground Computer Operating System
GCR	Ground Controlled Radar
GCS	Ground Communications System
	Guidance Cutoff Signal
GCTS	Gas Component Test Stand
	Ground Communication(s) Tracking System
GCU	General Control Unit
	Generator Control Unit
	Ground Cooling Unit

GCU	Gyro Coupling Unit
GCV	Gaseous Oxygen Control Valve
GD	Guard
GDA	Gimbal Drive Actuator/Assembly
GDBS	Generalized Data Base System
GDC	General Dynamics Convair Gyro Display Coupler
GDP	Generalized Documentation Processor
GDS	GNC Dynamic Simulator Goldstone, California (STDN)
GDSO	Ground Data Systems Division
GDSM	Ground Data Systems Manager
GDSO	Ground Data Systems Officer
GDSR	GDS Staff Support Room
GDX	Goldstone, CA (STDN Site, 2nd Antenna)
GE	General Electric
GECALL	GCOS Program Element Name
GEDAC	General Electric Detection and Automatic Correction
GEN	Generate, Generator
GENOPAUSE	Geodetic Satellite in Polar Geosynchronous Orbit
GEOD	Geodetic
GEOSEPS	General Summary Edit Program Geosynchronous Solar Electric Propulsion Stage
GERT	Graphical Evaluation and Review Technique
GES	Goddard Experiment Support System
GESYOT	GCOS Program Element Name
GET	Ground Elapsed Time
GETI	Ground Elapsed Time of Ignition
GETIL	Ground Elapsed Time of Landing (for TIG of Abort Burn)
GETS	Ground Equipment Test Sets
GF	Gage Factor
GF&P	Gases, Fluids, and Propellants
GFAE	Government Furnished Aerospace Equipment 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
	Gravity Gradient
GH <sub>2</sub>	Gaseous Hydrogen
GHA	General Housekeeping Area
	Greenwich Hour Angle
GHC	Ground Half Coupling
GHe	Gaseous Helium
GHX	Ground Heat Exchanger
GHz	Gigahertz
GIA	GPC Interface Adapter
GIDEP	Government-Industry Data Exchange Program
GIE	Ground Instrumentation Equipment
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
GLD	Glide Slope
GLL	Galileo
GLOW	Gross Lift-Off Weight
	Ground Lift-Off Weight
GLP	Goal Language Processor
GLRSHLD	Glare Shield
GLS	Ground Launch Sequence (Sequencer)
GLY	Glycol
	Water-Glycol Mixture
GM	Gaseous Mixture
	Geometric Mean
GMAL	General Electric Macro Assembly Language
GMBL	Gimbal
GMCL	Ground Measurements Command List



GMIL	Spaceflight Tracking and Data Network (STDN) Station (KSC)
GML	General Measurement Loop
GMMC	Ground Master Measurements List
GMN	Gorman (TACAN Station)
GMT	Greenwich Mean Time
GN	Gain
GN <sub>2</sub>	Gaseous Nitrogen
GN&C	Guidance, Navigation, and Control
GNC	Guidance and Navigation Computer
GNCFTS	GN&C Flight Test Station
GNCIS	GN&C Integration Simulator
GNCS	Guidance and Navigation Control System
GNCTS	GN&C Test Station
GND	Ground
GND C/O	Ground Checkout
GNP	Gross National Product
GO	General Order
GO <sub>2</sub>	Gaseous Oxygen
GOAL	Ground Operations Aerospace Language
GOC	Ground Operations Coordinator
GOCA	Ground Operations Control Area
GOE	Ground Operating Equipment
GOES	Geostationary Operational Environment Satellite
	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 (GO <sub>2</sub> )
GP	General Publication (KSC)

GP	General Purpose Group
GPA	General Purpose Amplifier
GPAS	General Purpose Airborne Simulator
GPBIM	General Purpose Buffer Interface Module
GPC	Gel Permeation Chromatograph General Purpose Computer
GPCB	GOAL Program Control Block
GPD	Gimbal Position Display
GPH	Gallons per Hour
GPI	Gimbal Position Indicator Ground Position Indicator
GPL	General Purpose Laboratory Goal Processing Language
GPM	Gallons per Minute
GPME	General Purpose Mission Equipment
GPRN	GOAL Test Procedure Release Notice
GPS	Gallons per Second General Processing Subsystem Global Positioning Satellite Global Positioning System Ground Power Supply Ground Processing Simulation
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 and Information Display
GRN	Green
GRO	Gamma Ray Observatory
GRTLS	Glide Return to Landing Site Glide Return to Launch Site
GS	Gas Servicer Glide Slope Ground Speed Ground Station

GS	Ground System
GSA	General Services Administration
GSAT	General Satellite (STS)
GSCU	Ground Service Cooling Unit
GSDL	Ground Software Development Laboratory
GSE	Ground Servicing Equipment
	Ground Support Equipment
GSEL	Ground Support Equipment List
GSFC	Goddard Space Flight Center (Greenbelt, MD)
GSI	Glide Slope Indicator
	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 Simulation Computer
	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
	Ground Spacecraft Tracking and Data Network
GSTF	Ground Systems Test Flow
GSU	Gas Servicer Unit
GSVP	Ground Support Verification Plan
GT	Greater Than
	Ground Team
	Ground Test
	Gyro Torque
GT&A	Ground Test and Acceptance
GTA	Gas Tungsten Arc
	Ground Test Access
	Ground Test Article
	Ground Torquing Assembly
GTC	Glycol Trim Console

GTC	Ground Test Conductor
GTCU	Ground Thermal Conditioning Unit
GTI	Grand Turk Island
	Ground Test Instrumentation
GTM	Ground Team Manager
	Ground Test Motor
GTS	General Test Support
	GN&C Test Station
	GNS Test Station
GTU	Glycol Trim Unit
GUCP	Ground Umbilical Carrier Plate
GUID	Guidance
GUIDO	Guidance Officer
GUL	GSE Utilization List
GUSB	Guided Unified S-Band
GVA	GOX Vent Arm
GVO	Gaviota (TACAN Station)
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)
GYRO	Gyroscope
GYROA	Gyro A
GYROCOMP	Gyrocompassing

## H

H	Altitude
	Hazardous (Task Classification)
	Head
	Henry (SI Unit)
	High
	Horizontal
	Hot
	Hours
	Momentum
$\dot{H}$	Altitude Rate
(H)	Hazardous (Task Classification)
H <sub>2</sub>	Hydrogen
H <sub>2</sub> O	Water
H-CITE	Horizontal-Cargo Integration Test Equipment
H/E	Heat Exchanger
H/L	Hardline
H/O	Handover
H/S	Heat Shield
H/S IR	Hardware/Software Integration Review
H/T	Heat Treat
H/W	Hardware
HA	Apogee Altitude
	Hazard Analysis
	High Altitude
HAA	High Altitude Abort
HAB	Habitation
HAC	Heading Alignment Circle
	Heading Alignment Cone
	Heading Alignment Cylinder
HAD	Heat Actuated Device
HAFB	Holloman Air Force Base
HAK	Horizontal Access Kit
HAL	High Order Articulated Language
	High Order Assembly Language
	Houston Aerospace Language

HAL/S	High Order Assembly Language for Shuttle Flight Computer High Order Assembly Language/Shuttle High Order Programming Language for Spacelab Usage
HAM	Height Adjustment Maneuver
HAP	Hardware Allocation Panel
HAS	Holddown Alignment Support Hydraulic Actuation System Hydrogen Actuation System
HAST	High Altitude Supersonic Target
HAW	Hawaii (STDN)
HB	Handbook High Bay
HBR	High Bit Rate
HBT	Heflex Bio-Engineering Test
HBW	Hot Bridge Wire
HC	Hand Controller Head Count Hybrid Computer
HCED	Hand Controller Engage Driver
HCF	High Cycle Fatigue HIM Configuration File
HCL	Horizontal Centerline
HCM	Hard Copy Module
HCMM	Heat Capacity Mapping Mission
HCR	High Cross Range
HCSI	Hughes Communications Services, Inc.
HCSL	Hybrid Computation and Simulation Laboratory
HCU	Hydraulic Charging Unit
HCV	Hydrogen Check Valve
HD	Heavy Duty Highly Desirable Holddown Horizontal Drain Hydrogen Drain
HDA	Housekeeping Data Acquisition
HDC	Hasselblad Data Camera Hybrid Device Controller
HDDR	High-Density Digital Recorder

HDG	Heading
HDP	Holddown Post
HDQ	Headquarters
HDR	High Data Rate
HDRA	High Data Rate Assembly
HDRM	High Data Rate Multiplexer
HDRR	High Data Rate Recorder
HDRSS	High Data Rate Storage System
HDS	Hardware Description Sheet
HDST	Headset
HDW	Hardware
HDWE	Hardware
HE	Heat Exchange (Exchanger)
	High Energy Astrophysics
He	Helium
HEAO	High Energy Astronomy Observatory
HEAP	High Energy Aim Point
HECV	Helium Check Valve
HEG	Helium Gage
HEGV	Helium Gage Valve
HEM	Hitchhike Experiment Module
HEMI	Hemispherical (S-Band Antenna)
HEMV	Helium Manual Valve
HEO	High Energy Orbit
HEPA	High Efficiency Particle Accumulator
	High Efficiency Particle Air (Filter)
HER	HIM Equipment Rack
HERSCP	Hazardous Exposure Reduction and Safety Criteria Plan
HESS	High Energy Squib Simulator
HETM	Hybrid Engineering Test Model
HEX	Heat Exchanger
	Hexadecimal
	Hexagon
HF	Hard Failure
	High Frequency
	Horizontal Flight
	Hot Firing
	Hydrogen Fill

HF	Hyperfiltration
HFA	High Frequency Accelerometer
HFC	Heat Flow and Convection Hydraulic Flight Control
HFCT	Hydraulic Flight Control Test
HFCV	Helium Flow Control Valve
HFDS	Hydrogen Fluid Distribution System
HFE	High Frequency Executive
HFM	Hollow Fiber Membrane
HFMU	High Fidelity Mockup
HFO	High Frequency Oscillator
HFS	Horizontal Flight Simulator
HFT	Horizontal Flight Test
HFTF	Horizontal Flight Test Facility
HFTS	Horizontal Flight Test Simulator
HFX	High Frequency Transceiver
HG	High Gain
Hg	Mercury
HGA	High Gain Antenna
HGDS	Hazardous Gas Detection System
HGM	Hot-Gas Manifold
HGR	Hangar
HGR&SPTFAC	Hangar and Support Facility
HGS	Hydrogen Gas Saver
HGV	Hydrogen Gas Valve
HGVT	Horizontal Ground Vibration Test
HHC	Hammer Head Crane
HHMU	Hand Held Maneuvering Unit
HI	High Honeywell, Inc.
HIC	Hickam Air Force Base, Hawaii (Deorb OPT site)
HID	Hardware Interface Device HIM Interface Distributor
HIM	Hardware Interface Module
HIP	Hardware Interface Program
HIPC	High Chamber Pressure
HIPO	Hierarchical Input/Process Output Hierarchy Plus Input/Process/Output



HISAM	Hardware Initiated Standalone Memory
HIST	History
HITS	High Rate Multiplexer Input/Output Test System
HIU	Headset Interface Unit
HIV	Helium Isolation Valve
HK	Housekeeping
HL	Hardline
	Heel Line
	High Level
	Hinge Line
	Hydrogen Line
HLAL	High Level Assembler Language
HLD	Hold
HLDS	Hydrogen Leak Detection System
HLMT	Helmet
HLTL	High Level Test Language
HM	Hinge Mount
HMA	Hypergol Maintenance Area
HMC	Hybrid Microcircuit
	Hypergolic Maintenance and Checkout
HMCC	Hypergolic Maintenance and Checkout Cell
HMCF	Hypergolic Maintenance and Checkout Facility
HMD	Helmet-Mounted Display
HMF	Horizontal Mating Facility
	Hypergol Maintenance Facility
HMP	Hydrozene Monopropellant (RCS Propellant)
HMS	History Memory System
HMU	Hardware Mockup
HMV	Hydrogen Manual Valve
HNDLER	Handler
HNGR	Hangar
HO	Hydrogen-Oxygen
HOL	High Order Language
HOLC	High Order Language Computer
HORIZ	Horizon, Horizontal
HOS	High Order Software
HOSC	Huntsville Operations Support Center
HP	Handling Procedure

HP	Hewlett Packard High Pressure Hydrogen Purge Perigee Altitude
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
HPOT	High Pressure Oxidizer Turbopump
HPOTP	High Pressure Oxidizer Turbopump
HPPF	Horizontal Payloads Processing Facility
HPR	Hydrogen Pressure Regulator
HPRV	Hydrogen Pressure Relief Valve
HPS	Hydraulic Power System
HPT	High Pressure Test
HPU	Hydraulic Power Unit
HPV	High Pressure Valve
HQ	Headquarters (HDQ preferred)
HQR	Handling Qualities Rating (Cooper-Harper)
HR	Historical Record Hydrogen Relief
hr	Hour
HRAA	High Rate Acquisition Assembly
HRC	Hasselblad Reflex Camera
HRD	High Rate Dosimeter
HRDA	High Rate Data 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	Heat Shield High Speed Horizon Sensor
HS-C	Hamilton Standard CO <sub>2</sub> Absorbent Material
HSC	Hardware/Software Coordination
HSCU	Hydraulic Supply and Checkout Unit
HSD	Hamilton Standard Division High Speed Data Horizontal Situation Display
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
HSNG	Housing
HSP	Health Stabilization Program High Speed Printer
HSR	Hardware Status Register High Speed Reader
HSS	High Stress Strain Hydraulic Subsystem Simulator
HSTP	Hard Stop
HSU	Helium Service Unit
HT	Heat Transfer Height High Technology
HT EXCH	Heat Exchanger
HTC	Hybrid Technology Computer
HTG	Heating
HTLL	High Test Level Language
HTM	High Temperature
HTPB	Hydroxyl Terminated Polybutadiene (Propellant) Hydroxyl Terminated Polybutylene
HTR	Heater
HTS	Heat Transfer System Heat Transport Section

HUD	Head Up Display
HUDE	Head Up Display Electronics
HUL	Hardware Utilization List
HUM	Humidity
HUT	Hard Upper Torso
HV	High Velocity
	High Voltage
	Hydrogen Vent
HVAC	Heating, Ventilating, and Air Conditioning
HVDS	Hypergolic Vapor Detection System
HVPS	High Voltage Power Supply
HVR	Hover
HVSF	Honeywell Verification Simulation Facility
HVSL	Holidays, Vacation, and Sick Leave
HW	Hardware
	Headwind
	Hotwire
HW/SW	Hardware/Software
HWWS	Hyperfiltration Wash Water Recovery System
HX	Heat Exchanger
HXIS	Hard X-ray Imaging Spectrometer
HYD	Hydraulic Subsystem
	Hydraulics
HYGL	Hypergolic
HYPACE	Hybrid Programmable Attitude Control Electronics
Hz	Hertz (Cycles per Second)

I

I	Inertias
	Inner
	Iodine
	Irradiated
I LOAD	Initialization Load
I&C	Installation and Checkout
	Instrumentation and Communication
I&C/O	Installation and Checkout
I&O	Inlet and Outlet
I&R	Interchangeability and Replaceability
	Interchangeability and Replacement
I&RS	Instrumentation and Range Safety
I&S	Interchangeability and Substitutability
I&T	Integration and Test
I-LOS	Initial Data Load
I/A	Interface Adapter
I/C	Intercom
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/P	In Progress
I/T	Intertank
I/V	Inlet Valve
IA	Implementation Agency
	Input Axis
	Inverter Assembly
	Issuing Agency
IAA	International Aerospace Abstracts
IAB	IUS Assembly Building
IAC	Interface Adapter Unit

IACS	Inertial Attitude Control System
IAD	Interface Agreement Document
	Interface Analysis Document
IAL	Immediate Action Letter
	International Algebraic Language
landC	Instrumentation and Communication
IARS	Independent Air Revitalization System
IAS	Impact Assessment Sheet
	Indicated Airspeed
	Integrated Avionics System
IASS	Inverter/ATCS Support Structure
IAT	Integrated Avionics Test
IAV	Inventory Adjustment Voucher
IB	Inboard
	Inert Building
	Instruction Book
IBF	Internally Blown Flap
IBM	International Business Machines
IC	Incremental Cost
	Information Center
	Initial Condition
	Integrated Circuit
	Intercom (Orbiter to Ground via Hardline)
	Intercommunications
	Intercomputer
	Interim Change
	Internal Combustion
	Ion Chamber
IC/ES	Intercommunication/Emergency Station
ICA	Item Change Analysis
ICAO	International Civil Aviation Organization
ICAR	Investigation and Corrective Action Report
ICB	Interim Change Bulletin
	Interrupt Control Block
ICC	Intercomputer Channel
	Intercomputer 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	Input Control Element
	Instrument Checkout Equipment
	Instrument/Communication Equipment
ICF	Interface Control Function
ICG	In-Flight Coverall Garment
ICH	Interchanger
ICIO	Interim Cargo Integration Operations
ICMO	Integrated Configuration Management Office
ICMS	Indirect Cost Management System
ICMT	Intercontract Material Transfer
ICO	Integrated Checkout
ICOM	Intercommunications
ICOS	Improved Crew Optical Sight
ICOU	Inertial Coupling Data Unit
ICP	ICS Control Program
	Inventory Control Point
ICR	Instruction Change Request
	Interface Compatibility Record
ICS	Instrumentation Control System
	Intercommunication System
	Interface Control Specification
	Interpretive Computer Simulator
ICT	Influence Coefficient Tests
	Interface Control Tooling
ICTC	Inertial Components Temperature Controller
ICU	Interface Control Unit
ICW	Interrupted Continuous Wave
ICWG	Interface Control Working Group
ID	Identification
	Identification Data
	Inside Diameter
	Interface Document

ID&CA	Inverter Distribution and Control Assembly
IDA	Interface Display Assembly
IDAC	Integrated Digital-Analog Converter
IDAS	Integrated Data Acquisition System
IDB	Insuit Drink Bag
IDC	IMBLMS Digital Computer
	Integrated Displays and Controls
	Interface Document Control
IDCA	Inverter Distribution and Control Assembly
IDD	Interface Definition Document(s)
IDE	Initial Design Evaluation
IDG	Integrated Drive Generator
IDI	Instrumentation Data Items
IDMM	Intermediate and Depot Maintenance Manual
IDO	Interdivisional Operations
IDP	Integrated Data Processor
IDPS	Interface Digital Processor
IDR	Initial Design Review
	Interim Discrepancy Report
	Intermediate Design Review
IDRD	Information Definition Requirements Document
	Internal Data Requirement Description
IDS	Interface Data Sheet
	Item Description Sheet
IDS	Institutional Data System Division (JSC)
IDSO	Interdivisional Sales Order
IDT	Load Data Tape
IDTA	Interdivisional Technical Agreement
IDU	Interface Demonstration Unit
IDWA	Interdivisional Work Authorization
IE	Industrial Engineering
IEA	Integrated Electronic Assembly
IECM	Induced Environment Contamination Monitor
IECO	Inboard Engine Cutoff
IECS	Igloo Environment Control Subsystem
IED	Interacting Equipment Documents
IEF	Isoelectric Focusing
IEP	Instantaneous Effective Photo Cathodes
IF	Integration Facility



IF	Intermediate Frequency
IFA	In-Flight Analyses
	Interface Functional Analysis
IFASC	Integrated Functions Assessment Steering Committee
IFB	Invitation for Bid
IFM	In-Flight Maintenance
IFO	Information Systems Office
IFOT	In-Flight Operations and Training
IFR	Instrument Flight Rules
IFRU	In-Flight Replacement Unit
IFT	In-Flight Test
	Interface Tool
IFTM	In-Flight Test Maintenance
IFTS	In-Flight Test System
IFU	Interface Unit
IG	Igloo
	Inertial Guidance
	Inner Gimbal
	Instrument Ground
	Instrumentation Group
IGA	Inner Gimbal Angle
IGAX	Inner Gimbal Axis
IGDS	Iodine Generating and Dispensing System
IGM	Interactive Guidance Mode
	Iterative Guidance Mode
IGN	Ignition, Ignite
IGOR	Intercept Ground Optical Recorder
IGS	Inertial Guidance System
	Inner Glideslope
IGSE	In-Space Ground Support Equipment
	Instrument Group Support Equipment
IGV	Inlet Guide Valve/Vanes
IH/SR	Integration Hardware and Software Review
IHP	Indicated Horsepower
IHTV	Interim Hypersonics Test Vehicle
IHX	Interloop Heat Exchanger
II	Implementation Instructions
IIS	Inspection Item Sheet

IITCS	Igloo Internal Thermal Control Section
ILA	Instrument Landing Approach
ILAS	Instrument Landing Approach System
ILC	Initial Launch Capability International Latex Corporation
ILCCS	Integrated Launch Control and Checkout System
ILLUM	Illuminate
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
IM	Information Memory Inner Maker Interface Module Intermediate Moisture
IMBLMS	Integrated Medical Behavioral Laboratory Measurement System
IMCC	Integrated Mission Control Center
IMCP	Integrated Monitor and Control Panel
IMD	Intermediate
IMDB	Integrated Maintenance Data Base
IMF	Inventory Master File
IML	Inside Mold Line
IMP	Initial Memory Protection
IMPD	Impedance
IMPL	Implement
IMPLS	Impulse
IMS	Information Management System Inventory Management System
IMU	Inertial Measurement Unit Internal Measurement Unit
IN	Information Systems Directorate (KSC)
in.	Inlet Inch

INBD	Inboard
INBIT	Input Bit
INC	Incomplete
	Increase
	Installation Notice Card
	Installation Notification Certificate
INCL	Inclination
	Include
INCLN	Incline
INCO	Instrumentation and Communication Officer
INCR	Increase
	Increment
IND	Indicate, Indicator
	Industrial
INDAT	Incoming Data
INF	Infinite
INFT	Informal Training
INH	Inhibit
INIT	Initial
	Initiate
INJ	Inject
INL	Inlet
INOP	Inoperative
INP	Input
INR	Inertial Reference
INRTL	Inertial
INRTL VEL	Inertial Velocity
INS	Inertial Navigation System
	Insertion Burn, OMS1
INSAT	Indian National Satellite
INSL	Insulate
INSP	Inspect, Inspection
INSRP	Inter-Agency Network Safety Review Panel
INST	Instrument
INST SYS	Instrumentation System
INST/COMM	Instrumentation and Communication
INSTL	Install, Installation
INSTL&C/O	Installation and Checkout

INSTR	Instruct Instrument, Instrumentation
INSTRUM	Instrumentation Subsystem
INT	Integrated Test Intensity Internal
INTASAT	Instituto Nacional De Technica Aeroespacial Satellite
INTC/O	Integrated Checkout
INTCHG	Interchange
INTCHGR	Interchanger
INTCP	Intercept
INTEGR	Integrate, Integration
INTELSAT	International Telecommunications Satellite Organization
INTEROG	Interrogate
INTF	Interface
INTG	Integration
INTLK	Interlock
INTR	Interior
INTRG	Interrogate
INTRLVR	Interleaver
INTRPT	Interrupt
INTV	Interim Hypersonics Test Article
INTVL	Interval
INTVLM	Intervalometer
INV	Inverter
INV MGT	Inventory Management
IO	Industrial Operations (MSFC)
IOA	Input/Output Adapter Input/Output or Assembly
IOB	Input/Output Box Input/Output Buffer Input/Output Buffer (if Bus ≠)
IOBPS	Input/Output Box and Peripheral Simulator
IOC	Indirect Operating Costs Initial Operational Capability Input/Output Controller
IOCU	Input/Output Control Unit
IOE	Input/Output Error Log Table
IOF	Initial Operational Flight

IPS	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	Inclination of the Ascending Return
	Infrared
	Inner Roll Gimbal
	Inside Radius
	International Rendezvous
IR SPECT	Infrared Spectrometer
IRAN	Inspection and Repairs as Necessary
IRANSAT	Iranian Government Communications Satellite (replaces IRAN)
IRAR	Internal Variable
IRD	Information Requirements Document
	Initiating Reference Document
IRG	Inertial Rate Gyro
IRIG	Inertial Rate Integrating Gyro
	Inertial Reference Integrating Gyro
	Interrange Instrumentation Group
IRIG-B	Interrange Instrumentation Group B
IRIS	Italian Research Interim Stage
IRL	Initiating Reference Letter
	Interface Requirement List
IRME	Initiator Resistance Measuring Equipment
IRN	Interface Revision Notice
IRR	Inspection Rejection Report
	Integral Rocket Ramjet
IRTCM	Integrated Real-Time Contamination Monitor
IRU	Inertial Reference Unit
IRV	Isotope Reentry Vehicle
IS	Installation Support
	Interconnecting Station
ISA	Interim Stowage Assembly
ISC	Initial Software Configuration Map
ISD	Instructional Systems Development (USAF)

IOM	Input/Output Module
IOP	In-Orbit Plane Input/Output Port Input/Output Processor Integrated Operation Plan
IOPL	Integrated Open Problem List
IOQE	Input/Output Queue Element
IOS	Indian Ocean Ship (STDN) Input/Output Supervision Instructor Operator Station
IOSC	Integrated Operations Support Center
IOU	Input/Output Unit
IP	Identification of Position Igloo Pallet Impact Point Inertial Processing Instructor Pilot Instrumentation Payload Instrumentation PCM Data Bus Intermediate Pallet Intermediate Pressure
IPACS	Integrated Power and Attitude Control System
IPAD	Integrated Program for Aerospace Vehicle Design
IPB	Illuminated Push Button Illustrated Parts Breakdown
IPC	Intermittent Positive Control
IPCL	Instrumentation Program and Component List
IPD	Information Processing Division
IPDR	Incremental Preliminary Design Review
IFE	Industrial Plant Equipment
IPF	IUS Processing Facility
IPL	Indentured Parts List Initial Program Load
IPR	Interim Problem Report
IPS	Inches per Second Instrument Pointing System (Subsystem) Instrumentation Power Subsystem Interface Problem Sheets

ISI	Initial Systems Installation Instrumentation Support Instruction
ISIL	Interim Support Items List
ISL	Inertial Systems Laboratory
ISL/LAR	Integrated Logistics System and Logistics Assessment Review
ISLM	Integration Shop/Lab Manager
ISO	International Standardization Organizations
ISOL	Isolate, Isolation
ISP	Initial Specific Impulse Instrumentation Support Plan Integrated Support Plan
ISPG	Institutional Support Planning Group
ISPM	International Solar Polar Mission
ISR	Initial System Release
ISS	Inertial Subsystem Inhibit/Override Summary Snapshot Display Installation Support Services Instruction Summary Sheet Integrated System Schematic
ISSL	Initial Spares Support List
IST	Instrumentation Support Team Integrated Systems Test
ISTA	Intertank Structural Test Assembly
ISTB	Integrated Subsystem Test Bed
ISTF	Integrated System Test Flow
ISU	International System of Units
IT	Identification Transponder Installation Test
ITA	Integrated Test Area
ITAP	Integrated Technical Assessment Panel
ITC	Igloo Thermal Control
ITE	Instrumentation Test Equipment Integration Test Equipment Intersite Transportation Equipment
ITI	Inspection and Test Instruction
ITL	Integrate, Transfer, and Launch
ITMG	Integrated Thermal/Micrometeoroid Garment

ITO	Integration and Test Order
ITRDS	Integrated Test Requirements Documents
ITS	Instrumentation Telemetry Station
	Interim Teleprinter System
IU	Instrument Unit
	Interface Unit
IUA	Inertial Unit Assembly
	Interface Unit Adapter
IUCS	Instrumentation Unit Update Command System
	Instrumentation Update Command System
IUE	Interface Unit Error Count Table
	International Ultraviolet Explorer
IUS	Inertial Upper Stage (was Interim Upper Stage)
	Interim/Intermediate Upper State
	Interim Use Sheet
	Interior Upper Stage
IV	Initial Velocity
	Integrated Vehicle
	Interface Volume
	Intravehicular
IVA	Intravehicular Activity
IVAK	Igloo Vertical Access Kit
IVAR	Internal Variable
IVBC	Integrated Vehicle Baseline Configuration
IVC	Intervehicular Communications
IVE	Interface Verification Equipment
IVL	Intervalometer
IVSI	Instantaneous Vertical Speed Indicator
IVT	Intervehicular Transfer
IWBS	Indirect Work Breakdown Structure
IWG	Interface Working Group
	Investigator Working Group



## J

J	Joule (SI Unit)
J/M	Jettison Motor
JAEIC	Joint Atomic Energy Intelligence Committee
JAN	Joint Army-Navy
JAS	Journal of Aerospace Science
JB	Junction Box
JCL	Job Control Language
JCP	Joint Power Conditions
JCT	Junction
JED	Julian Ephemeris Data
JETS	Joint Electronics Type (Designation) System
JETT	Jettison
JIR	Job Improvement Request
JIS	Joint Integrated Simulation
JO	Job Order
JOC	Joint Operations Center
JOD	Joint Occupancy Data Joint Occupancy Date
JOIP	Joint Operations Interface Procedure
JOP	Joint Operating Procedure Jupiter Orbiter Probe-Galileo
JOR	Job Order Request
JOVIAL	Joules Own Version International Algebraic Language
JP	Jet Propellant Jet Propulsion
JPC	Joint Power Condition
JPIC	Joint Program Integration Committee
JPL	Jet Propulsion Laboratory
JPOC	JSC Payload Operations Center
JPP	Joint Program Plan
JRB	Joint Review Board
JSC	Johnson Space Center (formerly MSC)
JSCM	JSC Manual
JSL	Jet Select Logic
JSLWG	Joint Spacelab Working Group
JST	Joint Systems Test

JTA	Job Task Analysis
JTG	Joint Training Group
JURG	Joint Users Requirements Group

## K

K	Kelvin
	Kilocycle
	One Thousand
k	Kilo (1000)
K&H	Memory Time Value
K-APM	KSC Automated Payloads Plan/Requirement
K-APN	KSC Automated Payloads Notice
K-APPS	KSC Automated Payloads Project Specification
K-BAND	10,900 to 36,000 MCS
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
KATS	Kennedy Avionics Test Set
KAU	Kilo Accounting Unit
KB	Keyboard

KB	Kilobit
KBAC	Kennedy Booster Assembly Contractor
KBIM	Keyboard Interface Module
KBPS	Kilobits per Second
KBU	Keyboard Unit
kcal	Kilocalorie
KCAS	Knots Calibrated Airspeed
KCRT	Keyboard Cathode Ray Tube
KCS	Keyboard Configuration Studies
KDMS	Kennedy Data Management System(s)
KDN	Kinetically Designed Nozzle
KDT	Keyboard and Display Test
KDU	Keyboard and Display Unit
KEAS	Knots Equivalent Airspeed
kg	Kilogram
kgal/min	Kilogallons per Minute
KHB	KSC Handbook
kHz	Kilohertz
KIAS	Knots Indicated Airspeed
KIP	Keyboard Input Processor
KIS	Kitting Instruction Sheet
klb	Kilopounds
km	Kilometers
KMI	KSC Management Instruction
KMR	Kwajalein Missile Range
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
KPPS	Kilopulses per Second
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
KT	Kit
	Knots
KU	Keyboard Unit
KU-BAND	15.250 to 17.250 GHz
KUSP	Ku-Band Signal Processor
	Ku-Band Single Processor
kV	Kilovolt
kVA	Kilovoltampere
kW	Kilowatt
kWh	Kilowatt Hours
KYBD	Keyboard

L

L	Launch
	Left
	Length
	Level
	Low
	Lumen
L&C	Laboratory and Checkout
L&D	Landing and Deceleration
L&L	Launch and Landing
L&S	Logistics and Support
L&T	Laboratory and Test
L-BAND	390 to 1550 MHz
L-L	Line-to-Line
L-P	Low Pressure
L/D	Length-to-Diameter
	Lift-to-Drag (Ratio)
L/H	Local Horizontal
L/O	Lift-Off
L/S	Landing Site
	Load System
L/T	Load Test
LA	Lanthanum
	Launch Abort
	Launch Aft
	Launch Area
	Launch Azimuth
	Lightning Arrester
	Low Attitude
LAAD	Los Angeles Aircraft Division (Rockwell)
LACB	Landing Aids Control Building (SLF at KSC)
LACIE	Large Area Crop Inventory Experiment
LACIP	Large Area Crop Inventory Program
LAGEOS	Laser Geodynamic Satellite
LAGS	Launch Abort Guide Simulation
LAIR	Liquid Air
LAIU	Launch Abort Interface Unit

LAN	Local Area Network
LAPS	Left Aft Propulsion System (Subsystem)
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
LASV	Low Altitude Supersonic Vehicle
LAT	Large Angle Torque
	Latch
	Lateral
	Latitude
	Lot Acceptance Test
LATS	LDEF Assembly and Transportation System
LB	Launch Boost
	Launch Bus
	Load Bank
	Low Bay
	Lower Brace
lb	Pound
LBDT	Low Bay Dolly Tug
LBK	Left Bank
LBL	Left Buttock Line
LBM	Load Buffer Memory
LBNPD	Lower Body Negative Pressure Device
LBR	Low Bit Rate
LC	Launch Complex
	Launch Countdown
	Launch Critical
	Left Center
LCA	Launch Control Amplifier
	Load Controller (Control) Assembly
LCB	Least Common Bit
LCC	Launch Commit Criteria
	Launch Control Center
	Life Cycle Cost
LCCD	Launch Commit Criteria Document
LCD	Launch Countdown

LCF	Low Cycle Fatigue
LCG	Liquid Cooled Garment
LCH	Latch
	Launch
LCHTF	Low Cycle High Temperature Fatigue
LCL	Local
LCM	Least Common Multiple
LCMS	Low Cost Modular Spacecraft
LCO	MMC Uniform Central Number
LCOM	Logic Control Output Module
LCR	Low Cross Range
LCS	Launch Control System
	List of Command Signals
LCT	Launch Countdown
LCU	Line Coupling Unit
LCUG	Liquid Cooling under Garment
LCVG	Liquid Cooling and Ventilation Garment
LD	Lateral Direction
	Loading Dock
LDB	Launch Data Bus
	Logistics Data Bank
LDEC	Lunar Docking Events Controller
LDEF	Long Duration Exposure Facility
LDG	Landing
LDIU	Launch Data Interface Unit
LDMK	Landmark
LDR	Low Data Rate
LDS	Landing/Deceleration Subsystem
	Landing, Deservicing, and Safing
	Loads
LDT	Linear Displacement Transducer
LE	Launch Escape
	Leading Edge
LEA	Logistics Engineering Analysis (Analyses)
LEB	Lower Equipment Bay
LEC	Lockheed Electronics Company
LED	Light Emitting Diode
LEH	Launch/Entry Helmet



LEM	Laboratory Environment Model Launch Escape Monitor
LEO	Low Earth Orbit
LER	Long Eye Relief (Optics)
LeRC	Lewis Research Center (Cleveland, OH)
LES	Launch Equipment Shop Launch Escape Subsystem
LESS	Leading Edge Structure Subsystem Leading Edge Subsystem
LETF	Launch Equipment Test Facility
LF	Launch Facility Launch Forward Left Forward Load Factor Low Frequency
LF <sub>AF</sub>	Low Frequency Accelerometer Flutter
LF <sub>AM</sub>	Low Frequency Accelerometer Modes
LF <sub>AP</sub>	Low Frequency Accelerometer Pogo
LFC	Large Format Camera
LFO	Low Frequency Oscillator
LFOP	Landing and Ferry Operations Panel
LFRR	Low Frequency Radio Range
LG	Landing Gear Length
LGA	Low Gain Antenna
LGIU	Laser Gyro Interface Unit
LH	Left Hand
LH <sub>2</sub>	Liquid Hydrogen
LHA	Local Hour Angle
LHC	Left Hand Circular
LHCP	Left Hand Circular Polarization Left Hand Circularly Polarized
LHe	Liquid Helium
LHP	Left Hand Panel
LHS	Left Hand Side
Li	Lithium
LIB	Left Inboard
LIC	Load Interface Circuit

LID	Leadless Inverted Device Logistics Identification Document
LIDAR	Laser-Radar
LIE	Left Inboard Elevon
LIM	Limit
LIMRC	LRU Identification and Maintenance Requirements Catalog
LIMS	Logistics Inventory Management System
LIN	Linear Liquid Nitrogen
LINJET	Liquid Injection Electric Thruster
LiOH	Lithium Hydroxide
LIQ	Liquid
LK	Leak Lock
LL	Launch and Landing Launch Left Lever Lock Long Lead Long Line Low Level Lower Left Lower Limit
LLCF	Launch and Landing Computational Facilities
LLI	Limited Life Item
LLIL	Long Leadtime Items List
LLOS	Landmark Line-of-Sight
LLP	Launch and Landing Project
LLPO	Launch and Landing Project Office
LLS	Launch and Landing Site
LLT	Long Leadtime
LM	Left Mid Long Module
LME	Launch Monitor Equipment
LMF	Lower Mid-Fuselage
LMG	Left Main Gear
LMK	Landmark
LMP	List of Measurement Points
LMS	Load Measurement System

LMS	Logistics Master Schedules
LMSC	Lockheed Missiles and Space Corporation
LN	Line
LN <sub>2</sub>	Liquid Nitrogen
LNCH	Launch
LNDG	Landing
LNG	Liquefied Natural Gas
LO	Launch Operations
	Local Oscillator
	Lock-On
LO <sub>2</sub>	Liquid Oxygen
LOA	Landing Operations Area
	Launch Operations Area
LOAP	List of Applicable Publications
LOB	Left Outboard
	Line of Balance
LOC	Launch Operations Complex
	Localizer
	Location
LOCC	Launch Operations Control Center
LOE	Left Outboard Elevon
	Level of Effort
	Line of Effort
LOFAR	Low Frequency Acquisition and Ranging
LOFO	Low Frequency Oscillation
LOGO	Limit of Government Obligation
LOI	Lunar Orbit Insertion
LOL	Limit of Liability
LOLI	Limited Operational-Life Items
LON	Longitude
LONG	Longitude
LOR	Lunar Orbit Rendezvous
LORA	Level of Repair Analysis
LORAN	Long Range Navigation
LOS	Lift-Off Simulator
	Line of Sight
	Loss of Signal
	Loss of Sync

LOT	Lift-Off Time
LOV	Limit of Visibility
	Loss of Visibility
LOWG	Landing Operations Working Group
LOX	Liquid Oxygen (LO <sub>2</sub> )
LP	Launch Pad
	Liquid Propellant
	Low Pressure
LPD	Landing Point Designator
	Launch Procedure Document
LPDM	List of Physical Dimensions
LPF	Low Pass Filter
LPFT	LOPW Pressure Fuel Turboprop
LPFTP	Low Pressure Fuel Turbopump
LPG	Last Page Generator (Distribution List Used in All OMT's)
	Liquid Propellant Gun
LPLWS	Launch Pad Lightning Warning System
LPM	Lines per Minute
LPOP	Low Pressure Oxidizer Turbopump
LPOTP	Low Pressure Oxidizer Turbopump
LPOX	Low Pressure Oxygen
LPR	Line Printer
LPS	Launch Processing (Processor) System
	Liters per Second
LPS/CDS	LPS/Central Data Subsystem
LPTTL	Low Power Transistor-Transistor Logic
LPW	Lumens per Watt
LR	Landing Radar
	Launch Right
	Left Rudder
	Lower Right
LR/LD	Line Receiver/Line Driver
LRECL	Logical Records of Fixed Length
LRF	Liquid Rocket Fuel
LRO	Large Radio Observatory
LRR	Launch Readiness Review
LRSI	Low Temperature Reusable Surface Insulation
LRU	Line Replaceable Unit

LRV	Launch Readiness Verification
	Long Range Video
LS	Landing Side
	Launch Sequence
	Left Side
	Life Science
	Limit Switch
LS/ST	Light Shield/Star Tracker
LSA	Launch Services Agreement
	Logistics Support Analysis
LSAH	Launch Site Accommodations Handbook
LSAP	Launch Sequence Applications Program
LSB	Least Significant Bit
	Lower Side Band
LSC	Linear Shaped Charge
LSCA	Logistics Support Cost Analysis
LSD	Landing Ship Dock
	Low Speed Data
LSE	Launch Support Equipment
	Life Support Equipment
LSF	Laboratory Simulation Facility
LSFE	Life Sciences Flight Experiment
LSI	Large Scale Integration
LSID	Launch Sequence and Interlock Document
LSM	Life Science Module
LSMI	Logistics Support Management Information
LSO	Landing Support Officer
	Large Solar Observatory
LSP	Least Significant Portion
LSPDF	Life Science Payloads Development Facility
LSR	Land Sea Rescue
	Launch Site Recovery
LSRM	Life Science Research Module
LSS	Landing, Separation Simulator
	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
LSU	Life Support Umbilical
LT	Lead Time
	Left
	Light
LTA	Lower Torso Assembly
LTD	Lift-to-Drag
	Limited
LTG	Lighting
	Linear Tangent Guidance
LTM	Lead Time Matrix
LUB	Lubricate
LUS	Liquid Upper Stage
LUT	Launcher-Umbilical Tower
LV	Launch Vehicle
	Lift Vector
	Limit Value
	Loading Valve
	Load Vertical
	Low Voltage
LVDC	Launch Vehicle Digital Computer
LVDT	Linear Variable Differential Transformer
	Linear Voltage Differential Transformer
LVL	Level
LVLH	Local Vertical/Local Horizontal
LW	Launch Window
LWD	Launch Window Display
	Left Wing Down
LWG	Logistics Working Group

LWHS	Light-Weight Headset
LWR	Lower
LWS	Lightning Warning System

## M

M	Mach
	Maintainability
	Major Cycle
	Male
	Mandatory
	Manual
	Mass
	Matrix
	Mega
	Mercury
	Middle
	Million
	Missing (Data)
	Monitor (MON preferred)
	Number of Revolutions Required for the Rendezvous
m	Meter
M&C	Maintenance and Checkout
	Monitor and Control Panel
M&F	Materials and Facilities
M&M	Materials and Maintenance
M&O	Maintenance and Operations
M&P	Materials and Processes
M&R	Maintenance and Refurbishment
	Maintenance and Repair
M&RF	Maintenance and Refurbishing Facility
M+R	Maintenance and Refurbishment
	Maintenance and Repair
M-	Time in Days before Move Operations
m-kg	Meter-Kilogram
M-M-L-S	Model-Modes-Loads-Stresses
M/F	Maintenance Factor
M/I	Minimum Impulse
M/L	Maintenance Loop
M/LR	Maintenance Loop Recorder
M/P	Main Parachute
M/R	Mixture Ratio (Fuel to Oxidizer)



M/S	Measurement Stimuli
M/SCI	Mission/Safety Critical Item
M/U	Mockup
M50	Mean of 1950 (Coordinate System)
MA	Maintenance (STS)
	Maintenance Ability
	Master
	Master Alarm
	Material Authorization
	Metabolic Analyzer
	Middeck Act
	Mike Amplifier
	Missed Approach
	Mission Analysis
	Multiple Access
mA	Milliampere
MA&P	Maintenance Analysis and Planning
MA&T	Manufacturing Assembly and Test
MAA	Mathematical Association of America
	Maximum Authorized Altitude
	Mechanical Arm Assembly
MAAB	Materials Application Advisory Board
MAAR	Monthly Associate Administrator's Review
MAB	Master Acquisition Bus
	Materials Advisory Board
	Materials Applications Board
	Mechanical Automation Breadboard
	Missile Assembly Building
MAC	Main Display Console
	Maintenance Advisory Committee
	Maximum Allowable Concentration
	Maximum Concentration of Organics
	Mean Aerodynamic Chord
	Military Airlift Command
	Multiaccess Computer
MACDS	Monitor and Control Display System
MACE	Mechanical Antenna Control Electronics
MACH	Machine

MACH	Velocity Relative to the Speed of Sound
MACI	Monitor, Access, and Control Interface
MACO	Major Assembly Checkout
MACRO	Merge and Correlate Recorded Output (Program)
MAD	Madrid, Spain (STDN) Maintenance Analysis Data
MADC	Multiplexer Analog to Digital Converter
MADRE	Manufacturing Data Retrieval System
MADS	Modular Auxiliary Data Systems
MAEP	Minimum Autoland Entry Point
MAF	Manpower Authorization File Michoud Assembly Facility Mixed Amine Fuel
MAG	Magazine Magnetic Magnitude
MAGSAT	Magnetometer Satellite
MAI	Machine-Aided Indexing
MAIDS	Management Automated Information Display System Multipurpose Automatic Inspection and Diagnostic System
MAIN	Maintenance
MAINT	Maintenance
MAIR	Manufacturing and Inspection Record
MAJ	Major
MAL	Malfunction Material Allowance List Mobile Airlock
MALL	Malleable
MAN	Manual Microwave Aerospace Navigation
MANF	Manifold
MAOT	Maximum Allowable Operating Time
MAP	Maintenance Analysis Program Message Acceptance Pulse Missed Approach Point Mission Application Program
MAPOLE	Magnetic Dipole Spark Transmitter

MAPS	Measurement of Air Pollution from Satellites Measurement of Atmospheric Pollution from Satellites
MAR	Maintenance and Refurbishment Memory Address Register
MARS	Martin Automatic Reporting System Modular Airborne Recorder System
MASDC	Military Aircraft Storage and Disposition Center
MAT	Matrix Meteorological Atmospheric Turbulence Multiple Actuator Test
MATCO	Materials Analysis, Tracking, and Control
MATL	Material
MAU	Million Accounting Units
MAUS	Messenschafteliche Autonome Experiment Unter Schwereelosigkeit
MAX	Maximum
MAXCO	Maximum Dynamic Pressure
MB	Main Bus Management Baseline
MB, mbar	Millibar
MB/S	Megabits per Second
MBAC	Marshall Booster Assembly Contractor
MBB	Messerschmitt-Boklow-Blahn
MBC	Maximum Breathing Capacity
MBCS	Motion-Base Crew Station (SMS)
MBFP	Manufacturing Build and Flow Plan
MBI	Multibus Interface
MBK	Medications and Bandage Kit
MBL	Mobile Unit (TACAN Station)
MBO	Management by Objective
MBPS	Megabits per Second Million Bits per Second
MBV	Main Base Visit
MC	Memory Configuration Mission Capability Mission Completion/Continuation
MC&C	Measurement, Command, and Control
MC&W	Master Caution and Warning

MCA	Master Control Assembly Maximum Crossing Altitude Monitoring and Control Assembly Motor Control Assembly Multichannel 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 and Display System Multifunction CRT Display System
MCDU	Multifunction CRT Display Unit
MCF	Maintenance and Checkout Facility Mission Control Facility
MCIU	Manipulator Controller Interface Unit Master Control and Interface Unit Mission Control and Interface Unit
MCL	Mass Change Log Master Configuration List
MCLT	Maximum Cruise Level Thrust
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
MCPC	Manipulator Controller Power Conditioner
MCPS	Major Cost Proposal System
MCR	Master Change Record
MCS	Maintenance and Checkout Station

MCS	Measurements Calibration System
MCT	Maximum Climb Thrust Mission Control Table
MCU	Master Control Unit Mission Control Unit
MCSV	Materials Control and Verification Program
MCW	Modulated Continuous Wave
MD	Biomedical Office (KSC Directorate) Malfunction Detection Manual Direct Manual Disconnect Master Dimension Microdot Mission Director
MDA	Main Distribution Assembly Maintainability Design Approach Middeck Assembly (FDF) Multiple Docking Adapter
MDAC	McDonnell Douglas Astronautics Company
MDAR	Malfunction Detection, Analysis, and Recording
MDAS	Meteorological Data Acquisition System Mission Data Acquisition System
MDB	Mission Data Book
MDC	Main Display Console Mission Director Center Mission Duty Cycle
MDCA	Main Distribution Control Assembly
MDCS	Maintenance Data Collection System Malfunction Display and Control System Master Digital Command System Material Data Collection System
MDD	Mate/Demate 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

MDF	Mild Detonating Fuse
MDL	Master Data Library
MDM	Manipulator Deployment Mechanism
	Medical Monitor
	Multiplexer/Demultiplexer
MDR	Maintenance Demand Rate
	Major Design Review
	Minor Discrepancy Repair
	Missing Data Report
	Mission Data Reduction
	Monthly Director's Review
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 Signal
	Minimum Discernible System
	Mission Development Simulator
MDSO	Mate/Demate Stiffleg Derrick
MDT	Maintenance Demand Time
	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
MEB	Main Electronics Box
MEBO	Main Engine Burnout
MEC	Main Engine Controller

MESA	Miniature Electrostatic Accelerometer
	Modular Equipment Stowage Assembly
MESC	Master Events Sequencer Controller
MET	Master Events Timer
	Meteorological
	Mission Elapsed Time
	Mission Events Timer
METRO	Meteorology
METVC	Main Engine Thrust Vector
MEWG	Maintenance Engineering Working Group
MF	Major Function
	Master Frame
	Mate and Ferry
	Medium Frequency (300 to 3000 kHz)
	Middeck Forward
	Midfuselage
MFA	Manned Flight Awareness
MFBP	Manufacturing Flow and Building Plan
MFC	Multiple Flight Computer
	Multiple Flight Controller
MFD	Main Feed
	Malfunction Detection
MFE	Mid Frequency Executive
MFF	MDM Flight Forward
MFG	Major Functional Group
	Manufacturing
MFMR	Multifrequency Microwave Radiometer
MFO	Major Function Overlay
MFR	Manipulator Foot Restraint
	Maximum Flight Rate
	Multifunctional Receiver
	Multifunctional Review
MFT	Mean Flight Time
MFTAD	Master Flight Test Assignment Document (JSC)
MFV	Main Fuel Valve
MG	Middle Gimbal (YAW)
	Mobile Generator
Mg	Magnesium

MEC	Master Event Controller Mission Events 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	Manual Entry Device Medical Medium
MEDICS	Medical Information Computer System
MEE	Mission Essential Equipment
MEG	Megohm
MEI	Master Inspection Item
MEIG	Main Engine Ignition
MEIU	Main Engine Interface Unit
MEL	Master Equipment List Minimum Equipment List
MELI	Master Equipment List Index Minimum Equipment List Index
MEM	Meteoroid Exposure Module Module Exchange Mechanism
MEOP	Maximum Expected Operating Pressure
MEP	Main Engine Propellant Main Entry Point Management Engineering Program Mean Effective Pressure Minimum Entry Point
MER	Meridian Mission Evaluation Room
MERL	Materials Engineering Research Laboratory Materials Equipment Requirement List
MERSAT	Meteorology and Earth Observation Satellite
MERU	Milliearth Rate Unit
MES	Main Engine Start Mated Elements Simulator Mated Events Simulator Mission Events Sequence



mg	Milligram
MGA	Middle Gimbal Angle
MGC	Manual Gain Control
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	Multihead Disc
MHE	Material Handling Equipment
MHF	Medium High Frequency
MHSC	Manipulator Handset Controller
MHW	Multihundred Watt
MHz	Megahertz (Megacycles per Second)
MI	Management Information
mi	Mile
MIA	Multiflex Interface Adapter
	Multiplexer Interface Adapter
MIB	Master Interconnect Board
MIC	Management Information Center
MICIS	Material Information Control and Information System
MICOM	Missile Command (Army)
MICS	Management Information and Control System
MID	Midbody
MIL	GSFC Spaceflight Tracking and Data Network Station (KSC) Merritt Island, Fla. (STDN Site)
	Military
MILA	Merritt Island Launch Area
MILS	Missile Impact Location System
MILSTRIP	Military Standard Requisition and Issue Procedure
MIMOSA	Mission Modes and Space Analysis
MIMS	Medical Information Management System
MIN	Minimum
min	Minute
MINW	Master Interface Network
MIO	Management Integration Office

MIOS	Multi-IMU Operation System
MIP	Mandatory Inspection Point
	Minimum Impulse Pulse
	MMU Integration Plan
	Modification Instruction Package
MIPR	Military Intergovernmental Purchase Request
MIPS	Merritt Island Press Site
MIR	Malfunction Investigation Report
	Mirror
MIS	Management Information System
	Mission Information Subsystem
MISC	Miscellaneous
MISS	Mission
MIT	Massachusetts Institute of Technology (CSDL)
	Master Instruction Tape
MITTS	Mobile Igor Tracking Telescope System
MIU	Multiplex Interface Unit
MIUS	Modular Integrated Utility Systems
MJ	Mechanical Joint
MJCA	Midbody Jettison Control Assembly
MJS	Manipulator Jettison System (Subsystem)
MK	Mark
MKTI	Mission Kit Technical Instruction
ML	Middeck Left
	Mobile Launcher
	Mold Line
ML PED	Mobile Launcher Pedestal
MLA	MDM Launch Aft
	Monochrome Lens Assembly
MLB	Multilayer Board
MLC	Mobile Launcher Computer
MLF	MDM Launch Forward
MLG	Main Landing Gear
MLGS	Microwave Landing Guidance System
MLI	Multilayer Insulation
MLL	MDM Launch Left
MLP	Mobile Launch (Launcher) Platform
MLR	MDM Launch Right

MLR	Monodisperse Latex Reactor
MLS	Microwave Landing System
MLW	Maximum Landing Weight
MM	Main Memory
	Main Module
	Major Mode
	Man-Month
	Mass Memory
	Math Model
	Mission Manager
mm	Millimeter
MMACS	Maintenance Management and Control System
MMAS	Material Management Accounting (Accountability) System
MMC	Martin Marietta Corporation
	Mission Management Center
MMCA	Midbody Motor Control Assembly
MMCL	Master Measurement and Control List
MMDB	Mass Memory Data Base
	Master Measurement Data Base
MMDF	Mission Model Data File
MMES	MSFC Mated Element Systems
MMH	Maintenance Man-Hour
	Monomethylhydrazine
MML	Master Measurement(s) List
MMLS	Model-Modes-Loads-Stresses
MMOS	Multimode Optical Sensor
MMPS	Multiuse Mission Payload Support Equipment
MMS	Mission Modular Spacecraft
	Modular Multiband Scanner
	Multimission Modular Spacecraft
MMSE	Multiuse Mission Support Equipment
MMT	Mass Memory Test
MMU	Manned Maneuvering Unit
	Mass Memory Unit
MN	Main
MNA, B, C	Main Bus A, B, or C
MNVR	Maneuver
MO	Major Objective

MO	Manned Orbiter Manual Orientation Manufacturing Order Master Oscillator Middeck Overhead Mission Operations Move
Mo	Molybdenum
MOA	Make on Arrival Memorandum of Agreement Minute-of-Angle
MOC	Marine Operation Center Mission Operations Computer
MOCF	Mission Operations Computational Facilities
MOCR	Mission Operations Control Room
MOCS	Multichannel Ocean Color Sensor
MOCV	Manual O <sub>2</sub> Control Valve
MOD	Mission Objectives Document Mission Operations Director Modification Modify Modulation, Modulator Module, Modular
MODART	Methods of Defeating Advanced Radar Threats
MODEM	Modulator-Demodulator
MODS	Modifications
MOF	Manned Orbital Flight
MOL	Molecular
MOM	Moment
MON	Monitor
MOP	Mission Operations Plan
MOPI	Max Rate Output Initiator
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

MORD	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
MOW	Mission Operations Wing
MP	Management Package Mass Properties Measuring Point Medium Pressure Melting Point Meteorology Panel Mission Planner Mod Package
MP&C	Maintenance Planning and Control
MPAD	Mission Planning and Analysis Division (JSC)
MPB	Maintenance Parts Breakdown
MPC	Manual Pointing Controller Memory Protection Check Meteorological Prediction Center Midbody Pyro Controller
MPD	Main dc Power Distributor Assembly Maximum Permissible Dose
MPSS	Mission Peculiar Experiment Support Structure
MPG	Multiple Point Ground Multipoint Grounding
MPGHM	Mobile Payload Ground Handling Mechanism
MPHE	Material and Personnel Handling Equipment
MPI	Mission Payload Integration
MPIIN	Modification Procurement Instrument Identification Number
MPIO	Mission Payload Integration Office
MPL	Maintenance Parts List Manipulation Positioning Latches Mechanical Parts List

MPL	Minimum Power Level (65%)
MPLN	Maintenance Planning (Data Base)
MPM	Manipulator Positioning Mechanism
MPMP	Mass Properties Management Plan
MPMSE	Multituse Payload and Mission Support Equipment
MPP	Material Processing Procedure
MPPSE	Multipurpose Payload Support Equipment
MPR	Maintainability Problem Report
	Management Program Review
	Mockup Purchase Request
MPS	Main Propulsion System (Subsystem)
	Master Program Schedule
	Material Processing Specification
	Material Processing System
	Materials Processing in Space
	Megabits per Second
MPSR	Mission Profile Storage and Retrieval
	Multipurpose Support Room
MPSS	Main Parachute Support Structure
MPT	Main Propulsion Test
MPTA	Main Propulsion Test Article
MPTF	Main Propulsion Test Facility
MPTP	Main Propulsion Test Program
MPTS	Multipurpose Tool Set
MPVA	Main Propellant Valve Actuator
MR	Master Reset
	Material Review
	Mission Report
	Mixture Ratio
MRA	Mechanical Readiness Assessment
MRB	Material Review Board
MRC	Measurement Requirements Committee
MRCR	Measurement Requirement Change Request
MRD	Material Review Disposition
	Mission Requirements Document
MRDR	Material Review Disposition Record
MRF	Maintenance Responsibility File
	Maximum Retarding Force

MRF	Measurements/Stimuli Request Form
MRI	Measurement Requirements and Interface
MRIR	Medium Resolution Infrared Radiometer
MRL	Manipulator Retention Latches
	Manipulator Retention Lock
	Material Requirements List
MRR	Mission Reconfiguration Request
MRS	Management Review System
MRTC	Multiple 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)
	Mission Specialist
	Mission Station
	Multistring
ms	Millisecond
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
	Moding Sequencing and Control
MSCR	Measurement/Stimuli Change Request
MSD	MARS Supplemental Data

MSDS	Multispectral Scanner and Data System
MSE	Maintenance Support Equipment Measuring and Stimuli Equipment Mechanical Support Equipment Medical Support Equipment Mission Staff Engineer
MSEC	Master Separation Events Controller
msec	Millisecond
MSF	Maintenance Source File Manned Space Flight
MSFC	George C. Marshall Space Flight Center
MSFN	Manned Space Flight Network
MSFP	Manned Space Flight Program
MSG	Mechanical Subsystem Group Message Mission Support Group
MSI	Maintenance Significant Items Medium Scale Integration
MSIA	Multispectral Image Analyzer
MSID	Measurement Stimulation Identification
MSK	Manual Select Keyboard
MSL	Mean Sea Level Mechanical System(s) Laboratory Missile
MSLD	Mass Spectrometer Leak Detector
MSM	Manned Support Module
MSN	Mission
MSO	Model for Spare(s) Optimization
MSOB	Manned Spacecraft Operations Building (O&C preferred)
MSOCC	Multisatellite Operations Control Center
MSOIN	Minor Subcontractor or IDWA Notification
MSR	Module Support Rack
MSS	Maintenance Status System Manufacturers Standardization Society Mechanical Support Systems Mission Specialist Station Mission Status Summary Mobile Service Structure



MSS	Multispectral Scanner System
MST	Measurement Status Table
	Mobile Service Tower
	Module Service Tool
	Mountain Standard Time
MSTR	Master
MSU	Mass Storage Unit
	Measuring Stimuli Units
MSV	Monitored Sine Vibration (Test)
MSVP	Master Shuttle Verification Plan
MSW	Microswitch
MT	Magnetic Tape
	Master Timer
	Master Tool
	Maximum Torque
	Mean Time
	Mechanical Technician
	Mission Time
	Mission Trajectory
	Mount
	Mountain Time
MTA	Maintenance Task Analysis
	Major Test Article
	Mass Thermal Analysis
MTB	Materials Testing Branch
MTBD	Mean Time between Demand
MTBF	Mean Time between Failure
MTBM	Mean Time between Maintenance
MTBMA	Mean Time between Maintenance Action
MTBR	Mean Time between Replacement
MTC	Manual Traffic Control
	Master Thrust Control
	Master Thrust Controller
	Mission and Traffic Control
MTCA	Monitor and Test Control Area
MTCU	Magnetic Tape Control Unit
MTD	Mounted
MTDSK	Magnetic Tape Disk

MTE	Maintenance Test Equipment Multisystem Test Equipment
MTEC	Maintenance Test Equipment Catalog
MTEE	Electrical Maintenance Test Equipment
MTEEC	Electronic Maintenance Test Equipment
MTEF	Fluid Maintenance Test Equipment
MTEM	Maintenance Test Equipment Module Mechanical Maintenance Test Equipment
MTEO	Optical Maintenance Test Equipment
MTF	Mississippi Test Facility (now NSTL)
MTFO	Modular Training Field Option
MTG	Mounting
MTGP	Monitor Table Generator Program
MTGW	Maximum Total Gross Weight
MTK	Mechanical Time Keeping
MTL	Main Transfer Line Material
MTLP	Monitor Table Listing Program
MTM	Methods Time Measurement
MTO	Magnetic Tape Operator Master Timing Oscillator Maximum Time Out Mission, Task, Objective Modification Task Outline
MTOGW	Maximum Takeoff Gross Weight
MTOW	Maximum Takeoff Weight
MTP	Manufacturing Technical Procedure Master Test Plan Mission Test Plan
MTR	Magnetic Tape Recorder Motor
MTS	Magnetic Tape Station (System) Master Timing 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
MTVC	Manual Thrust Vector Control
MTW	Maximum Taxi Weight
MU	Master Unit
	Mobile Unit
	Mockup
	Multiple Unit
MUA	Material(s) Usage Agreement
	Maximum Usable Altitude
MUF	Maximum Usable Frequency
MULT	Multiple
	Multiply
MUMS	Multiple Use Marc System
MUR	Manpower Utilization Report
MUSAT	Canadian Government Satellite
MUSS	Module Utility Support Structure
MUX	Multiplex, Multiplexer
MV	Manual Valve
	Manufacturing Verification
mV	Millivolt
MVA	Main Valve Actuator
	Megavolt Ampere
MVAS	Multipurpose Ventricular Actuating System
MVC	Manual Volume Control
	Master Volume Control
MVF	Manned Vertical Flight
MVGVT	Mated Vertical Ground Vibration Test
MVM	Mariner Venus/Mercury
MVP	Master Verification Plan
MVR	Maneuver
MVS	Middle Value Select
	Multiple Virtual Storage
MVT	Mission Verification Test
MW	Man Week

MW	Microwave
mW	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
MZFW	Maximum Zero Fuel Weight

N

N	Neutrons
	Newton
	North
N <sub>2</sub>	Nitrogen
N <sub>2</sub> H <sub>4</sub>	Hydrazine
N <sub>2</sub> HO <sub>4</sub>	Nitrogen Peroxide
N <sub>2</sub> O <sub>4</sub>	Nitrogen Tetroxide
N&G	Navigation and Guidance (G&N preferred)
N/A	Next Assembly
	Not Applicable
N/B	Narrow Band
N/C	Normally Closed
	Nose Cone
	Not Critical
	Numerical Control
N/D	Need Date
N/O	Normally Open
N/P	Not Provided
N/W	Network
NA	Next Action
	Not Applicable
NAAL	North American Aerodynamic Laboratory (Wind Tunnel)
NAC	Nacelle
NAEC	Naval Air Engineering Center
NAM	National Association of Manufacturers
NAP	Navigation Analysis Program
NAR	Numerical Analysis Research
NARS	National Archives and 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	Navigate, Navigation
NAVAID	Navigation Aid
NAVDAD	Navigationally Derived Air Data
NAVPOOL	Navigation Parameter Common Pool
NAVSAT	Navigation Satellite
NB	Narrow Band
	Navigation Base
	Nitrogen Base
	No-Bias (Relay)
Nb	Niobium
NBF	Neutral Buoyancy Facility
NBS	National Bureau of Standards
NBT	Neutral Buoyancy Trainer
NC	National Course
	No Change
	No Comment
	Noise Criteria
	Normally Closed
	Numerical Control
NC1	Nominal Correction 1 (Phasing Maneuver)
NCC	NASA Class Code
	Nominal Corrective Combination (Maneuver)
NCGS	Nuclear Criteria Group Secretary
NCI	Phasing Maneuver
NCIU	Network Common Interface Unit
NCR	No Calibration Required
	Nonconformance/Failure Report
NCS	Nutation Control System
ND	NASA Document
Nd	Neodymium
NDE	Nondestructive Evaluation
NDI	Nondestructive Inspection
NDT	Nondestructive Test
NDTF	Nondestructive Test Facility
NDTL	Nondestructive Test Laboratory
NEA	Noise Equivalent Angle
NEC	National Electrical Code
NEG	Negative

NEP	Normal Entry Point
NESC	National Electrical Safety Code
NESR	Natural Environment Support Room
NET	Network (N/W preferred)
NETCOM	Network Communications
NF	Natural Flood
	Noise Figure
NFCS	Nuclear Forces Communications Satellite
NFPA	National Fire Protection Association
NFS	Nozzle Flow Sensor
NFSP	Nonflight Switch Panel
NFW	Nonfuel Wasting
NG	Narrow Gage
	Nitrogen Gage
	Nose Gear
NGM	Nitrogen Generation Module
NH	Nominal Height (Adjust Maneuver)
NH <sub>3</sub>	Ammonia
NH <sub>4</sub>	Hydrazine
NHA	Next Higher Assembly
NHB	NASA Handbook
NHC	National Hurricane Center
Ni	Nickel
NI-SIL	Nickel-Silver
NIA	NOVA Interface Adapter
NIB	Noninterference Basis
NIC	Not in Contract
NICD	Nickel Cadmium
NIDS	Network Interface Data System
NIL	No Limit (NL preferred)
NIM	Nuclear Instrumentation Module
NIP	Network Input Processor
	Network Interface Processor
	Nipple
NJP	Network Job Processing
NL	No Limit
	Nose Left
NLA	Next Lower Assembly

NLG	Nose Landing Gear
NLT	Not Later Than
	Not Less Than
NM	Nautical Miles
	Network Manager (GSFC)
	Nonmetallic
nm	Nanometer
NMAB	National Materials Advisory Board
NMC	National Meteorological Center
NMI	NASA Management Instruction
	Nautical Miles
NMO	Normal Manual Operation
NMR	Nuclear Magnetic Resonance
NMT	Not More Than
	Notification of Master Tool
NMV	Nitrogen Manual Valve
NNI-I	NASA Standard Initiator—Type I (was SMSI)
NO	Nitric Oxide
	Normally Open
	Not for Off-KSC Distribution
NO.	Number
NO <sub>2</sub>	Nitrogen Dioxide
NOAA	National Oceanic and Atmospheric Administration
NOC	Network Operation Control
	Not Otherwise Coded
	Notation of Content
NOCC	Network Operations Control Center
NOES	National Operational Environmental Satellite Serv.
NOM	Network Output Multiplexer
	Nominal
NOR	Normal
	Northrup Flight Strip, NM (Deorb OPT site)
NORAD	North American Air Defense Command
NORDSAT	Scandinavian Countries Broadcast Satellite
NORM	Normal
NOSL	Night/Day Optical Survey of Thunderstorm Lightning
NOSP	Network Operations Support Plan
NOSS	National Oceanic Survey Satellite



NOZ	Nozzle
NP	Neptunium
	Network Program
	Not Provided
NPC	NASA Publication Control
	Nitrogen Purge Control
NPD	NASA Policy Directive
	Nominal Percent Defective
NPDS	Nuclear Particle Detection Subsystem
NPL	Normal Power Level (see RPL)
NPN	NASA Part Number
NPRV	Nitrogen Pressure Relief Valve
NPS	NASA Planning Studies
NPSH	Net Positive Suction Head
NPSP	Net Positive Static Pressure
	Net Positive Suction Pressure
NPU	Nitrogen Purge Unit
NPV	Nitrogen Pressure Valve
NR	Noise Rating
	Nose Right
	Not Required
NR/T	Near Real-Time
NRC	Nonrecurring Costs
NRCC	National Research Council of Canada
NRI	Nonrecurring Investment
NRL	Naval Research Laboratory
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 Normal Slow Rate (Maneuver)
NSR1	First Coelliptic Maneuver
NSR2	Second Coelliptic Maneuver
NSS	Nitrogen Supply Subsystem
NSSDC	National Space Science Data Center
NSTL	National Space Technology Laboratory (was MTF)
NSW	NSP Status Word
nt	Newton
NTIS	National Technical Information Service
NTO	Nitrogen Tetroxide
NTP	Network Test Panel Normal Temperature and 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
NVB	Navigational Base
NVPOWG	NASA/VAFB Payload Operations Working Group
NVR	No Voltage Release Non-Verification Required Nonvolatile Residue
NW	NASA Waiver Nose Wheel
NWS	National Weather Service Nose-Wheel Steering
NWSI	New World Services Inc.
NWSA	Nose Wheel Steering Amplifier
NWT	Nonwatertight
NWW	Nose Wheel Well

NX	Normal to X-Axis Nose to X-Axis
NY	Normal to Y-Axis Nose to Y-Axis
NZ	Normal Acceleration Normal Load Factor (g) Normal to Z-Axis Nose to Z-Axis
NZB	Non Zero Binary

## O

O	Omicron
	Out
O <sub>2</sub>	Oxygen
O&C	Operation and Checkout
	Operation(s) and Checkout (Building—was MSOB)
O&FS	Operations and Flight Support
O&M	Operation and Maintenance
O&P	Operations and Procedures
O&R	Overhaul and Repair
O-NAV	Onboard Navigation
O/B	Onboard
	Operational Base
O/C	Operations Critical
O/D	On Dock
	Outside Diameter
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
O/V-U/V	Over Voltage/Under Voltage
OA	Office of Applications (now OSTA)
	Operational Aft (DSC or MOM)
	Operational Instrumentation MDM—Aft
	Orbital Assembly
	Output Axis
	Overall
OAA	Orbiter Access Arm
	Orbiter Alternate Airfield
OAFD	Orbiter Air Flight Deck
OAFTO	Orbiter Atmospheric Flight Test Office
OAL	Overall Level
OALC	Ogden Air Logistics Center
OAMS	Orbital Attitude and Maneuvering System

OAS	Office Automation System Orbiter Aeroflight Simulator Orbiter Atmospheric Simulator Orbiter Avionics System
OASCB	Orbiter Avionics Software Control Board
OASIS	Oceanic and Atmospheric Scientific Information System
OASPL	Overall Sound Pressure Level
OAST	Office of Aeronautics and Space Technology
OAT	Operational Acceptance Test Overall Test
OB	Onboard Operational Base Outboard
OBC	Onboard Computer
OBCO	Onboard Checkout (Instrumentation)
OBCS	Onboard Checkout Subsystem
OBS	Observe, Observer Operational Bioinstrumentation System Operational Biomed Sensors Operational Biomedical System
OBV	Oxidizer Bleed Valve
OC	On Center On-Condition Open Circuit Orbital Check Overcurrent
OCALC	Oklahoma City Air Logistics Center
OCC	Office of Contract Compliance Operations Control Center
OCD	Operational Capability Development
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
OCM	Organic Content Monitor
OCN	Order Control Number

OCO	OMS Cutoff
	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	Operations Directive
	Operational Downlink/Downlist
	Outside Diameter
	Oxygen Drain
ODB	Operational Data Book
ODC	Other Direct Costs
ODCDR	Orbiter Delta CDR
ODDS	Operational Data Delivery Services
ODES	Optical Discrimination Evaluation Study
ODF	Orbit Determination Facility
ODIN	Orbital Design Integration (System)
ODP	Operational Display Procedure
ODR	Output Data Redundancy
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	Operational FWD DSC or MDM
	Operational Instrumentation MDM—FWD
	Orbital Flight
	Outside Face
	Oxidizer-to-Fuel Ratio
	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
	Optical Flight Kit

OFM	Original Equipment Manufacturer
OFP	Operational Flight Profile Operational Flight Program Orbiter Flight Program
OFS	Orbital (Orbiter) Flight System Orbiter Functional Simulator
OFT	Orbital Flight Test
OFTDS	Orbital Flight Test Data System
OFTM	On-Orbit Flight Technique Meeting
OFTR	Orbital Flight Test Requirement
OG	Outer Gimbal (Roll) Oxygen Gage Zero Gravity
OGA	Outer Gimbal Angle Outer Gimbal Axis
OGE	Operating Ground Equipment
OGMT	Orbiter Greenwich Mean Time
OGS	Outer Glideslope Oxygen Generation System
OGV	Oxygen Gage Valve
OH	Overhaul Overhead
OHA	Operational Hazard Analysis Orbital Height Adjustment Maneuver
OHC	Onboard Hard Copier Optics Hand Controller
OHF	Occupational Health Facility
OHGVT	Orbiter Horizontal Ground Vibration Test
OHMM	Ohmmeter
OI	Operational Instrumentation Operations Interface Orbiter Insertion Orbiter Instrumentation
OIA	Office of International Affairs Orbiter Interface Adapter
OIB	Orbiter Interface Box
OIC	Orbiter (Orbital) Integrated Checkout
OII	Operations Integration Instruction
OIO	Operations Integrations Officer
OIR	Operations Integration Review

OIS	Operational Intercommunication System
	Orbiter Instrumentation Systems
OISR	Open Item Status Report
OISSP	Office of Interim Space Station Program
OIT	Orbiter Integrated Test
OIV	Oxidizer Isolation Valve
OIVS	Orbiter Interface Verification Set
OJT	On-the-Job Training
OL	Open Loop
	Operational Left DSC or MDM
	Overlay
	Overload
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	Operational Mid DSC or MDM
	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 and Maintenance Control File
	Orbiter Maintenance and Checkout Facility
OMD	Operations and Maintenance Documentation
	Orbiter Mating Device
OMDR	Operations and Maintenance Data Record
OMDR1	Operations and Maintainability Data Record
OME	Orbital Main Engine
	Orbital Maneuvering Engine
	Orbiter Main Engine
OMET	Orbiter Mission Elapsed Time
OMEWG	Orbiter Maintenance Engineering Working Group
OMI	Operations and Maintenance Instruction
OMIS	Operational Management Information System
OMISS	Operation and Maintenance Instruction Summary Sheet(s)
OML	Orbiter Mold Line



OML	Outer Mold Line Outside Mold Line
OMMH	Orbiter Maintenance Man-Hours
OMNI	Omni-Range Omnidirectional
OMP	Operations and Maintenance Plan
OMPR	Operational Maintainability Problem Reporting
OMPT	Observed Mass Point Trajectory
OMR	Operations and Maintenance Requirements Operations Management Room Orbiter Management Review
OMRB	Operating Material Review Board
OMRC	Operational Maintenance Requirements Catalog
OMRP	Operations and Maintenance Requirements Plan
OMRS	Operations and Maintenance Requirements Specification
OMRSD	O&M Requirements and Specifications Documentation Operational Maintainability Reporting Systems Document Operational Maintenance Requirements and Specifications Document
OMS	Orbital Maneuvering Subsystem
OMSF	Office of Manned Space Flight (now OSTS)
OMSP	Operational Maintenance Support Plan
OMU	Optical Measuring Unit
OMV	Oxygen Manual Valve
ONBD	Onboard
ONBT	Orbiter Neutral Buoyancy Trainer
OND	Operator Need Date
ONR	Office of Naval Research
OOD	Orbiter On-Dock
OODP	Out-of-Detent Pitch
OODR	Out-of-Detent Roll
OOMM	Organizational Operations and Maintenance Manual
OOP	Out of Position
OOS	On-Orbit Station Orbit-to-Orbit Shuttle Orbit-to-Orbit Stage
OOSDP	On-Orbit Station Distribution Panel
OOT	Out of Tolerance

OP	Open Operate Operation Oxygen Purge
OPA	Operations Planning Analysis
OPB	Oxidizer Preburner
OPBOV	Oxidizer Preburner Oxidizer Valve
OPDAR	Optical Detection and Ranging
OPE	Other Project Element
OPER	Operation Operations, Operate, Operator
OPF	Orbiter Processing Facility
OPFC	Orbiter Preflight Checklist
OPGUID	Optimum Guidance (Technique)
OPI	Orbiter Payload Interrogator
OPIDF	Operational Planning Identification File
OPIS	Orbiter Prime Item Specification
OPL	Open Problem List Operational
OPLF	Orbiter Processing and Landing Facility
OPNS	Operational Phase
OPO	Orbiter Project(s) Office
OPOV	Oxidizer Preburner Oxidizer Valve
OPP	Opportunity Opposite
OPPAR	Orbiter Project(s) Parts Authorization Request
OPPL	Orbiter Project Parts List
OPR	Office of Primary Responsibility Operations Planning Review Operator Orbiter/Payload Recorder Oxygen Pressure Regulator
OPRV	Oxygen Pressure Relief Valve
OPS	Operations Operations Sequence Orbiter Project Schedules Oxygen Purge System
OPSB	Orbiter Processing Support Building

OPSR	Operations Supervisor (GSTDN Site)
OPSS	Orbital Propellant Storage Subsystem
OPT	Operational Pressure Transducer
	Optics
	Optimum
	Option
OPTB	Operational Program Time Base
	Opposite
OR	Operational Right DSC or MDM
	Operations Requirement
	Operations Review
	Operations Room
	Outer Roll
	Oxygen Relief
ORB	Orbit, Orbital, Orbiter
	Order
ORB 1-g	Orbiter one-g (trainer)
ORCHIS	Oak Ridge Computerized Hierarchical Information System
ORD	Operational Readiness Date
	Operational Ready Data
	Operational Requirements Document
	Orbital Requirements Document
	Ordnance
ORE	On-Orbit Repair Experiment
ORDC	Orbiter Data Reduction Center
ORF	Orifice
ORG	Organization
ORI	Operational Readiness Inspection
ORIDE	Override
ORIEN	Orientation
ORIG	Origin
ORLA	Optimum Repair Level Analysis
ORP	OFS Retransmission Processor
ORR	Operational Readiness Review
	Operations Requirements Review
ORS	Orbital Refueling System
	Orroval Valley, Australia (STDN)
ORSDI	Oak Ridge Selective Dissemination of Information
ORT	Operational Readiness Test
	Orbit Readiness Test

ORTHOG	Orthogonal
OS	On-Orbit Station
	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 (now OSTs)
	Ordnance Storage Facility
OSHA	Occupational Safety and Health Act (Activity)
	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	OEX Support System
	Office of Space Science
	Optics Subsystems
	Orbiting Space Station
	Office of Space Science and Applications
OSSA	Office of Space Science and Applications
OSSRH	Orbiter Subsystem(s) Requirements Handbook
OST	Operations Support Team (GSFC)
	Orbiter Support Trolley
OSTA	Office of Space and Terrestrial Application(s)
OSTDS	Office of Space Tracking and Data Systems
OSTO	Office of Space Transportation Operations
OSTP	Orbiting System Test Plan
OSTS	Office of Space Transportation Systems
OT	Operating Time
	Operational Instrumentation MDM--Tank
	Operational Test
	Operational Trajectory

OT	Optical Tracker Out Temperature Overtime
OT&E	Operational Test and Evaluation
OTA	Optical Telescope Assembly
OTB	Orbiting Tanker Base
OTBD	Outboard
OTC	Orbiter Test Conductor
OTD	Operational Technical Documentation Orbiter Test Director
OTDA	Office of Tracking and Data Acquisition (now OSTDS)
OTEMP	Overtemperature
OTH	Over-the-Horizon (Radar)
OTK	Oxidizer Tank
OTL	Ordnance Test Laboratory
OTLC	Orbiter Timeline Constraints
OTO	One-Time-Only
OTOS	Orbit-to-Orbit Stage
OTP	Operational Test Procedure Operations Test Plan Operations Turnaround Plan
OTR	Operating Time Record Outer
OTS	Off-the-Shelf Orbiter Test Conductor
OTT	Optional Team Targeting
OTV	Operational Television Orbiter Transfer Vehicle
OUP	OFS Uplink Processor
OUT	Orbiter Utilities Tray Outlet Output
OUTBD	Outboard
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
OX	Oxidizer
OXD	Oxide, Oxidizer
OXDZR	Oxidizer
OXID	Oxidizer
OXY	Oxygen
OZ	Ozone
oz	Ounce

P

P	Pallet (Spacelab)
	Period
	Pilot
	Pitch
	Pole
	Pressure
	Primary
	Prime
	Roll Rate (Angular Rate)
P&FS	Particles and Fields Subsatellite
P&I	Performance and Interface (Specification)
P&M	Performance Monitor
	Phase Modulation (Modulated)
	Planetary Mission
	Preventive Maintenance
	Processes and Materials
	Program Milestone
	Pulse Modulation
P&R	Performance and Resources
P&SM	Procurement and Subcontract Management
P-BAND	225 to 390 MCS
P-P	Peak-to-Peak (Value)
P-TUBE	Pneumatic Tube
P/A	Problem Analysis
P/B	Preburner
	Pushbutton
P/C	Pitch Control
P/L	Parts List
	Payload
	Postlanding
	Purchased Labor
P/N	Part Number
P/P	Patch Panel
	Printer/Plotter
P/PL	Primary Payload
P/S	Parallel to Serial Converters
	Payload Specialist
P/Y	Pitch/Yaw
PA	Pad Abort

PA	Paging and Area Warning Power Amplifier Product Assurance Public Address Public Affairs Pulse Amplifier
PAC	Pressure Alpha Center Probe Aerodynamic Center Problem Action Center
PACAS	Personnel Access Control Accountability System
PACC	Problem Action Control Center
PACE	Prelaunch Automatic Checkout Equipment
PACS	Pointing and Attitude Control System
PAD	Preliminary Advisory Data (Crew Data Uplink) Program Approval Document Propellant Acquisition Device
PAE	Preventive Action Engineer Problem Assessment Engineer
PAF	Payload Attach Fitting Peak Annual Funding
PAFB	Patrick Air Force Base
PAH	Payload Accommodations Handbook
PAL APA	Indonesian Communications Satellite
PALS	Photo Area and Location System Precision Approach and Landing System
PAM	Payload Assist Module Pulse Amplifier Modulation Pulse Amplitude Modulation
PAM-A	PAM, Atlas-Centaur Class Spacecraft
PAM-D	PAM, Delta Class Spacecraft
PAMB	Pressure Ambient
PAO	Public Affairs Office (Officer)
PAP	Product Assurance Plan
PAPI	Precision Approach Path Indicator
PAR	Planning Action Request Precision Approach Radar Problem Accountability Record Problem Action Record



PAR	Problem Action Request Product Acceptance Review
PARA	Paragraph
PARAM	Parameter
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
PAU	Probe Aerodynamic Upper
PAV	Pressure Actuated Valve
PAX	Passengers
PAYCOM	Payload Command
PAYDAT	Payload Data
PB	Phonetically Balanced Playback Preburner (P/B preferred) Pushbutton
PBAN	Polybutadiene Acrylonitrile (Propellant)
PBD	Payload Bay Door
PBDF	Payload Bay Door FWD
PBDM	Payload Bay Door Mechanism
PBI	Push Button Indicator
PBIC	Programmable Buffer Interface Card
PBIM	Programmable Buffer Interface Module
PBK	Payload Bay Kit
PBL	Payload Bay Liner
PBM	Program Business Management
PBPS	Post-Boost Propulsion System(s)
PBW	Proportional Band Width
PC	Chamber Pressure Pitch Control Plane Change Printed Circuit (Card)

PC	Project Control Pulsating Current
PCA	Pitch Control Assembly 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 and 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
PCD	Procurement Control Document
PCDU	Payload Command Decoder Unit
PCEM	Propulsion Contamination Effects Module
PCF	Payload Control Facility
PCG	Phonocardiogram
PCI	Peripheral Controller Interface Procedure Change Unit Product Configuration Identification Program Control Input
PCIL	Pilot-Controlled Instrument Landing
PCIN	Program Change Identification Number Program Change Integration
PCL	Pallet Coolant Loop Power Control List Primary Coolant Line Primary Coolant Loop Programming Check List
PCM	Power Control Mission Pulse Code Modulation Pulse Code Modulator

PCM	Punch Card Machine
PCMD	Pulse-Code Modulation, Digital
PCME	Pulse-Code Modulation Event
PCMMU	PCM Master Unit
	Pulse-Code Modulation Master Unit
PCMS	Pulse-Code Modulation Shared
PCN	Page Change Notice
	Program Change Notice
	Program Control Number
PCO	Postcheckout
	Postcheckout Operations
	Procuring Contracting Officer
	Program Controlled Output
PCOT	Payload Center Operations Team
PCP	Power Control Panel
	Program Change Proposal
	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 (RI Launch Operations)
PCS	Payload Checkout System
	Payload Control Supervisor
	Pointing Control System
	Power Conversion System
	Pressure Control System
	Primary Coolant 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

PCU	Process Control Unit
PCV	Precheck Verification Purge Control Valve
PCVB	Pyro Continuity Verification Box
PCVL	Pilot Controlled Visual Landing
PCZ	Physical Control Zone
PD	Pitch Down Preliminary Design Procurement Document Procurement Drawing Program Directive Project Directive Propellant Dispersal
PD&RS	Payload Deployment and Retrieval Subsystem
PDA	Propellant Drain Area
PDAR	Program Description and Requirements
PDB	Performance Data Book Power Distribution Box
PDC	Predefined Command Procurement Document Change
PDCR	Proprietary Data Control Record
PDCS	Power Distribution and Control System (Subsystem)
PDH	Pocket Dosimeter—High
PDI	Payload Data Interleaver Payload Deployment and Retrieval System
PDL	Pocket Dosimeter—Low Procedure Distribution List Program Design Language
PDM	Processor Data Monitor Pulse Duration Modulation
PDM/FM	Pulse Duration Modulation/Frequency Modulation
PDP	Plasma Diagnostics Package Postinsertion Deorbit Preparation Preliminary Definition Plan Procurement Data Package Program Development Plan Project Definition Phase
PDR	Preliminary Data Requirements

PDR	Preliminary Design Review Processed Data Recorder Program Design Review Program Director's Review
PDRD	Procurement Data Requirements Document
PDRL	Procurement Data Requirements List
PDRM	Payload Deployment and Retrieval Mechanism
PDRS	Payload Data and Retrieval System Payload Deployment and Retrieval System(s)
PDRSS	Payload Development and Retrieval System Simulator
PDRSTA	Payload Deployment and Retrieval System Test Article
PDS	Package Data System Partitioned Data Set Power Distribution System (Subsystem) Problem Data System
PDU	Pilot Display Unit Power Drive Unit Pressure Distribution Unit Pulse Detection Unit
PDV	Pressure Disconnect Valve
PE	Project Engineer
PEB	Performance Evaluation Board
PED	Pedal Pedestal
PEFO	Payload Effects Follow-on Study
PEIR	Project Equipment Inspection Record
PEM	Plant Engineering and Maintenance
PEN	Penicillin
PEP	Power Extension Package
PER	Perigee Period Preliminary Engineering Report
PERF	Perform, Performance
PERM	Permanent
PERT	Program Evaluation Review Technique
PET	Phase Elapsed Time
PETA	Performance Evaluation and Trend Analysis
PETB	Preflight Test Bus

PETN	Petaerythrite Tetranitrate
PETS	Payload Environmental Transportation System P/L Experiment Test System (KSC) POCC Experiments Timeline System (GDSD and Spacelab)
PF	Parachute Facility Payload Forward Payload Function Payload Operational Instrumentation MDM–FWD Power Factor Powered Flight Preflight Prime Function Probability of Failure Pulse Frequency
PFA	Palmdale Final Assembly
PFB	Payload Feedback Payload Forward Bus Position Feedback Pressure Fed Booster
PFC	Performance Flight Certification Postflight Checklist Power Factor Corrector Preliminary Flight Certification
PFCF	Payload Flight Control Facility
PFCS	Primary Flight Control System
PFK	Payload Function Key
PFL	Primary Freon Loop
PFM	Platform Pulse Frequency Modulation
PPF	Program Financial Plan Programmable Function Panel
PFR	Portable Foot Restraint
PFRT	Preliminary Flight Rating Test
PFRX	Preflight Relmat (X- 1,2,3. . .9 or A,B,C. . .Z)
PFS	Percent Full Scale Primary Flight System
PFTA	Payload Flight Test Article
PG	Power Generation

PG	Pressure Gage
PGA	Power Generating Assembly Pressure Garment Assembly Programmable Gain Amplifier
PGDCS	Power Generation, Distribution, and Control Subsystem
PGE	Purge
PGHM	Payload Ground Handling Mechanism
PGM	Program(able)
PGNCS	Primary G&N and Control System (Subsystem)
PGOR	Payload Ground Operation Requirements
PGORS	Payload Ground Operations Requirements Study
PGR	Spacelab Planning and Ground Rule
PGRWG	Payload Ground Requirements Working Group
PGS	Power Generation Subsystem
PGSE	Payload Ground Support Equipment
PGU	Plant Growth Unit
PGWG	Particles and Gasses Working Group
PH	Personal Hygiene Phase
pH	Hydrogen-Ion Concentration (Alkalinity)
PHA	Preliminary Hazard Analyses
PHF	Personal Hygiene Facility
PHK	Personal Hygiene Kit
PHM	Per Hundred Million
PHMC	Probe Heater Motor Controller
PHOTO	Photograph
PHP	Payload Handling Panel
PHR	Payload Hazardous Report
PHS	Payload Handling Station
PI	Payload Interrogator Pen and Ink (Document Update) Preliminary Investigation Principal Investigator Procurement Item Program Introduction
PIA	Preinstallation Acceptance Project Impact Analysis

PIAR	Project Impact Analysis Report
PIB	Pyrotechnic Installation Building
PIC	Payload Integration Center
	Payload Integration Committee
	Preinstallation Checkout
	Programmable Interval Clock
	Pyro Ignition Control
	Pyro Initiator Capacitors
	Pyro Initiator Controller
	Pyrotechnic Initiator Controller
PICP	Program Interface Control Plan
PICRS	Program Information Control and Retrieval System
	Program Information Coordination and Review Service
PICS	Photo Index and Cataloging System
	Predefined Input Control Sequence
PID	Payload Insertion Device
	Program Information Document
	Program Introduction Document
.PIDA	Payload Installation and 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
	Project Implementation Plan
PIPA	Pulse Integrating Pendulum Accelerometers



PIPA	Pulse Integrating Pendulum Assembly
PIRN	Preliminary Interface Revision Notice
PIT	Preinstallation Test
PITG	Payload Integration Task Group
PITS	Payload Integration Test Set
PIU	Power Interface Unit
	Pyrotechnic Initiator Unit
PIV	Peak Inverse Voltage
PK	Peak (Valve)
PK/PK	Peak to Peak
PKD	Programmable Keyboard and Display
PKG	Package
PKM	Perigee Kick Motor
PKT	Pocket
PL	Payload (P/L preferred)
	Plate
	Plug
	Postlanding (P/L preferred)
	Prelaunch
PL/SNSR	Payload Sensor
PLA	Parachute Location Aid
PLACE	Position Location Aircraft Communications Equipment
PLAT	Platform
PLB	Payload Bay
PLBD	Payload Bay Door(s)
PLBK	Playback (PB preferred)
PLD	Program Listing Document
PLDI	Payload Data Interleaver
PLDM	Payload Management
PLDS	Payload Support
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	Plan
	Program Logic Network
PLRD	Payload Requirements Document
PLRV	Payload Launch Readiness Verification
PLS	Payload Systems
	Post Landing and Safing
	Preliminary Landing Site
	Primary Landing Site
	Propellant Loading System
	Pulse
PLSL	Propellants and Life Support Laboratory
PLSP	Payload Signal Processor
PLSS	Portable Life Support Subsystem
	Primary Life Support Subsystem
PLT	Pilot
	Production Lead Time
PLTS	Precision Laser Tracking System
PLUM	Payload Umbilical Mast
PLV	Postlanding Vent
PLVC	Postlanding Vent Control
PM	Payload Management
	Payload Midbody
	Performance Monitor
	Phase Modulation
	Preventive Maintenance
	Project Manager
	Pulse Modulation
PMA	Performance Monitor Annunciator
PMAD	Performance Monitor Annunciation Driver
	Power Management and Distribution
PMAP	Performance Monitor Annunciation Panel
PMAT	Page Map Address Table
PMC	Payload Monitoring and Control
	Plutona-Molybdenum Cermet
	Postmanufacturing Checkout
	Private Medical Communication
	Procurement Method Code
PMD	Palmdale (TACAN Station)
PMDL	Palmdale, California

PMEL	Precision Measurements Equipment Laboratory
PMF	Performance Monitor (Monitoring) Function Perigee Motor Firing Program Management Facility
PMHL	Preferred Measurement Hardware List
PMI	Preventive Maintenance Inspection Preventive Maintenance Instruction Principal Maintenance Inspector
PMIA	Parallel Multiplexer Interface Adapter
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, and Processes Performance Management Package Premodulation Processor Program Management Plan Pump
PMPL	Preferred Mechanical Parts List
PMR	Performance Measurement Report Program Manager's Review
PMS	Performance Management System Performance Measurement System Performance Monitoring System
PMT	Planning/Management Team Production Monitoring Test
PMTC	Pacific Missile Test Center
PMU	PCM Master Unit Pressure Measuring Unit Pulse Modulation Unit
PN	Part Number (P/N preferred) Pseudo Noise Pseudo-Random Noise
PNEU	Pneumatic
PNL	Panel

PNP	Prenegotiation Position
PO	Personnel Office (KSC Directorate) Postorbit Purchase Order
POA	Plan of Action
POC	Payload Operations Center Purchase Order Closeout
POCC	Payload Operations Control Center
POCN	Purchase Order Change Notice
POD	Payload Operations Division (JSC) Proximity Optical Device
POE	Pilot Operational Equipment
POGO	Pogo Suppression System Polar Orbiting Geophysical Observatory
POI	Product of Inertia
POL	Petroleum, Oil, and Lubricants
POLAR	Production Order Location and Reporting
POM	Pallet-Only Mode Printer Output Microfilm
POMT	Planning Operations Management Team
POP	Perpendicular-to-Orbit Plane Preburner Oxidizer Pump Preflight Operations Procedures Prelaunch Operations Plan Program Operating Plan
POPA	Payload Ordnance Processing Area
POPU	Push Over Pull Up
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	Payload Operations Support Team Positive Program to Optimize Simulated Trajectories

POT	Potable Potentiometer
POV	Peak Operating Voltage Pneumatic Operated Valve
POWS	Project Operating Work Statement
PP	Partial Pressure Planning Package Power Pole Program Performance Push-Pull
PPB	Parts per Billion Program Performance Baseline
PPC	Phased Provisioning Code Preprocessing Center
PPCO <sub>2</sub>	Partial Pressure CO <sub>2</sub>
PPEP	Plasma Physics and Environmental Perturbation
PPF	Payload Processing Facility (USAF)
PPH	Pounds per Hour
PPI	Plan Position Indicator Pulse Position Indicator
PPII	Priced Provisioned Item List
PPL	Planning Parts List Priced Parts List Provisioning Parts List
PPM	Part per Minute Parts per Million Pulse per Minute Pulse Position Modulation
PPME	Pacific Plate Motion Experiment
PPO <sub>2</sub>	Partial Pressure O <sub>2</sub>
PPP	Peak Pulse Power
PPR	Payload Preparation Room
PPS	Pneumatic Power Subsystem Printer/Plotter System Provisioning Performance Schedule Pulse per Second
PQGS	Propellant Quantity Gaging System
PQI	Propellant Quantity Indicator
PR	Pair

PR	Performance Report Position Record Pressure Pressure Ratio Pressure Regulator Primary Problem Report Procurement Regulation Procurement Requisition Pulse Rate Purchase Request
PRACA	Problem Reporting and Corrective Action
PRB	Panel Review Board Parachute Refurbishment Building Paso Robles (TACAN Station) Project Review Board
PRC	People's Republic of China (Payload) People's Republic of China Satellite Planning Research Corporation
PRCA	Problem Reporting and Corrective Action
PRCB	Program Requirements Change Board Program Requirements Control Board Program Review Control Board
PRCBD	Program Requirements Control Board Directive Program Review Control Board Directive
PRD	Personal Radiation Dosimeter Procurement Regulation Directive Procurement Requirements Document Program Requirements Documents (UDS)
PRE	Personal Rescue Enclosure
PRE-MOD	Premodulation
PREAMP	Preamplifier
PREF	Preference
PREFLT	Preflight
PREL	Preliminary
PREP	Preparation Prepare
PRES	Present
PRESS	Pressurant Pressure
PREV	Previous
PREVLV	Prevalve

PRF	Parachute Refurbishment Facility Pulse Repetition Frequency
PRI	Primary
PRIM	Primary
PRL	Page Revision Log Priority Rate Limiting
PRM	Payload Retention Mechanism Posigrade Rocket Motor Pulse Rate Modulation
PRN	Program Release Notice Pseudo-Random Noise Pulse Range Navigation
PRO	Proceed
PROB	Problem
PROC	Procedure Processor, Process Procurement
PROG	Program Progress
PROJ	Project
PROM	Programmable Read-Only Memory
PROP	Propellant Proportioning Propulsion Propulsion Engineer
PROPLT	Propellant
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 Personnel Rescue System Power Reactant System (Subsystem) Precision Ranging System

PRS	Primary Recovery Site Primary Rescue Site Provisioning Requirements Statement
PRSD	Power Reactant Storage and Distribution Power Reactant Supply and Distribution
PRSDS	Power Reactant Storage and Distribution System
PRSS	Problem Report Squawk Sheet
PRT	Pulse Repetition Time
PRTL	Powered Return to Launch Site
PRV	Pressure Reduction Valve
PS	Parachute Subsystem Payload Specialist Payload Station Payload Support Power Supply Pressure Switch Prime Select
PS/FC	Power Supply/Fuel Cell
PSA	Payload Service Area Payload Support Avionics Power Servo Amplifier Power Servo Assembly Pre/Post Sleep Activity Preferred Storage Area Pressure Switch Assembly Provisions Stowage Assembly
PSAC	Presidential Scientific Advisory Committee
PSC	Parallel Switch Control Program Schedule Chart
PSCL	Propellant Systems Cleaning Laboratory
PSCN	Preliminary Specification Change Notice
PSD	Power Spectral Density Program Support Document
PSDP	Payload Station Distribution Panel
PSDR	Planning and Scheduling Document Record
PSE	Payload Service Equipment Payload Servicing Equipment



PSU	Power Switching Unit
PSV	Planetary Space Vehicle
PSW	Program Status Word
PT	Advanced Planning and Technology Office (KSC Dir.)
	Pint
	Pitch Trim
	Point
	Pressure Transducer
PTA	Posttest Analysis
	Potential Toxic Area
	Propulsion Test Article
PTB	Payload Timing Buffer
PTC	Passive Thermal Control
	Portable Temperature Controller
PTCR	Pad Terminal Connection Room
PTCS	Passive Thermal Control Section
	Passive Thermal Control System
	Planning, Training, and Checkout System
	Propellant Tanking Computer System
PTD	Provisioning Technical Documentation
PTDDSS	PTD Data Selection Sheet
PTI	Preliminary Test Information
	Programmed Test Input
PTIS	Program Test Input System
PTM	Pulse Time Modulation
PTMS	Precision Torque Measuring System
PTO	Participating Test Organizations
	Power Test Operations
PTP	Point-to-Point Phone(s)
PTR	Preliminary Test Report
	Printer
	Program Trouble Report
PTS	Payload Test Set
	Payload Transportation System
PTT	Push-to-Talk
PTV	Pathfinder Test Vehicle
PU	Pickup
	Power Unit

PSE	Payload Support Equipment Peculiar Support Equipment
PSF	Processing and Staging Facility (SRB) Processing and Storage Facility (ET)
psf	Pounds per Square Foot
PSFC	Power Supply/Fuel Cell
PSG	Power Subsystem Group
PSI	Power Static Inverter
psi	Pounds per Square Inch (Static Pressure)
psia	Pound per Square Inch Absolute
psid	Pounds per Square Inch Differential
PSIG	Propulsion Systems Integration Group
psig	Pounds per Square Inch Gage
psis	Pounds per Square Inch Sealed
PSK	Phase Shift Keyed
PSL	Pressure Seal Propellant Seal
PSM	Phase Sensitive Modulator Propellant Storage Module Pyro Substitute Monitor
PSOP	Payload Systems Operating Procedures
PSP	Payload Signal Processor Payload Specialist Panel Payload Support Plan Program Support Plan Project Schedule Plan
PSPA	Pressure Static Probe Assembly
PSPL	Priced Spare Parts List
PSR	Program Status Review
PSRD	Program Support Requirements Document
PSS	Pad Safety Supervisor Payload Specialist Station Payload Support System Propellant Supply Subsystem Propulsion Support System
PSSP	Payload Specialist Station Panel
PSST	Periodic Significant Scheduled Tasks
PSSU	Patch Survey and Switching Unit

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

## Q

Q	Dynamic Pressure
	Pitch Rate (Angular Rate)
Q Alpha	Pitch Dynamic Pressure
Q Beta	Yaw Dynamic Pressure
Q-BAND	36,000 to 46,000 MCS
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
QATT	Qualification for Acceptance Thermal Testing
QAVT	Qualification Acceptance Vibration Test
	Qualification for Acceptance Vibration Testing
QC	Quality Control
QCB	Queue Control Block
QCDR	Quality Control Deficiency Report
QCOP	Quality Control Operating Procedure
QD	Quick Disconnect
QDR	Qualification Design Review
QDS	Quality Data System
QE	Quality Engineer
QEC	Quick Engine Change
QGS	Quantity Gaging System
QL	Quick Look
QLDR	Quick Look Data Reference
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
	Quantity 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
QTRS	Quarters
QTY	Quantity
QUAD	Quadrangle, Quadrant, Quadrature
QUADS	Quality Achievement Data System
QUAL	Qualification, Qualified
	Quality
QUAT	Quaternion
QUI	Quito, Ecuador (STDN)
QUIC	Quality Data Information and Control
QUP	Quality Unit Pack
QVT	Qualified Verification Testing
QVVT	Qualified Verification Vibration Testing

## R

R	Gas Constant
	Radius
	Range
	Range Rate
	Rankine
	Ratio
	Rear
	Receive
	Redundant
	Regulate
	Rehydratable
	Reliability
	Replace
	Resistance
	Right
	Roentgen
	Roll
	Yaw Rankine Rate
R BAR	Radius Vector Axis
R DOT	Range Rate to Target, (+) Opening, (-) Closing
R IMP	Minimum Range to Avoid Plum Impingement
R&CC	Recorder and Communication Control
R&D	Research and Development
R&DO	Research and Development Operations (MSFC)
R&P	Reserve and Process
R&PM	Research and Program Management
R&QA	Reliability and Quality Assurance
R&R	Remove and Replace
	Rendezvous and Recovery
R&Z	Range and Zero
R-OUT	Rollout
R-T	Resistance Test
R/A	Radar Altimeter
R/C	Radio Command
	Rate of Climb
	Remote Control

R/D	Rate of Descent
R/E	Reentry
R/I	Receiving Inspection
R/L	Rate/Limited Remote/Local
R/O	Rollout
R/S	Range Safety Redundant Set
R/T	Real Time Receiver/Transmitter
R/W	Read/Write Runway
RA	Radar Altimeter (R/A preferred) Range Area Right Aft Right Ascension
Ra	Radium
RAAB	Remote Amplifier and Adaption Box Remote Application and Advisory Box
RAC	Reliability Action Center
RACS	Remote Automatic Calibration System Rotation Axis Coordinate System
RACU	Remote Acquisition and Command Unit
RAD	Radar Radian Radiation Dosage Radius Roentgen Absorbed Dosage
RADAR	Radio Detecting and Ranging
RADCC	Radiation Control Center
RAE	Radio Astronomy Explorer
RAF	Requirements Analysis Form
RAG	Reusable Agenda
RAHF	Research Animal Holding Facility
RAI	Radar Altimeter Indicator Roll Attitude Indicator
RAL	Responsibility Assignment List
RALPH	Reduction and Acquisition of Lunar Pulse Heights

RALT	Radar Altimeter
RAM	Radar Absorption Material Random Access Memory Research and Applications Module Responsibility Assignment Matrix
RAMA	Recap and Movement Authorization
RANC	Radar Absorption Noise and Clutter
RANN	Research Applied to National Needs
RAPCON	Radar Approach and Control
RAS	Requirements Allocation Sheet
RAPS	Right AFT Propulsion System
RATCC	Radar Air Traffic Control Center
RAU	Remote Acquisition Unit
RAUIS	Remote Acquisition Unit Interconnecting Station
RAX	Remote Access Computing System Remote Access Terminal
RB	Radar Beacon
RBA	Radar Beacon Antenna
RBC	Red Blood Cells Rotating Beam Ceilometer
RBDE	Radar Bright Display Equipment
RBE	Radiation Biological Effectiveness
RBK	Right Bank
RBL	Right Buttock Line
RBMT	Retrospective Bibliographies on Magnetic Tape
RBN	Radio Beacon
RC	Range Command Rate Command Recovery Controller Recurring Cost Resistance-Capacitance Reverse Current Rotation Control
RCA	Radio Corporation of America (SATCOM) Remote Control Amplifier
RCAG	Remote Center Air-Ground Remote Control Air-Ground
RCB	Remote Circuit Breaker



RCC	Range Commanders Council (DOD) Range Control Center Reinforced Carbon-Carbon Reusable Carbon-Carbon Rough Combustion Cutoff
RCCA	Rough Combustion Cutoff Assembly
RCCB	Remote Control Circuit Breaker
RCCP	Recorder and Communications Control Panel
RCD	Record
RCDP	Record Parallel
RCDR	Recorder
RCHCS	Regenerable CO <sub>2</sub> and Humidity Control System
RCN	Requirements Change Notice
RCP	Radiation Constraints Panel Right Circular Polarization Right Circular Polarizer
RCPT	Receipt Receptacle
RCR	Retrofit Configuration Record
RCS	Reaction Control System (Subsystem)
RCSC	Reaction Control Subsystem Controller
RCU	Remote Control Unit
RCV	Receive
RCVR	Receiver
RCVS	Remote Control Video Switch
RCVY	Recovery
RCY	Recovery Remaining Cycles
RD	Radiation Detection Reference Designator Requirements Document Round
RD/SB	Rudder Speed Brake
RDA	Remote Data Access Resident Data Area
RDC	Reference Designator Code Request for Document Change
RDCS	Reconfiguration Data Collection System

RDD	Requirements Definition Document
RDF	Radio Direction Finder Resource Data File
RDM	Real-Time Data Manager
RDMTR	Radiometer
RDOC	Reference Designation Overflow Code
RDOUT	Readout
RDP	Receiver and Data Processor Requirements Data Plan Requirements Development Plan
RDR	Raw Data Recorder Rudder
RDS	Rocketdyne Digital Simulator
RDT&E	Research, Development, Test, and Evaluation
RDTR	Radiator
RDW	Response Data Word Return Data Words
RDX	Cyclotrimethylenetrinitramine
RDY	Ready
RE	Responsible Engineer
RE&T	Research Engineering and Test
REAC	Reactant
REACQ	Reacquisition
REC	Receive Record (RCD preferred)
RECERT	Recertification
RECHG	Recharge
RECIP	Reciprocate
RECOG	Recognition
RECON	Remote Console
RECONFIG	Reconfiguration
RECONN	Reconnaissance
RECOV	Recovery
RECP	Receptacle Request for Engineering Change Proposal
RECRC	Recirculate
RECS	Representative Shuttle Environmental Control System
RECT	Rectifier, Rectify

RECV	Receive
RECVR	Receiver
RED	Reduction
REDUN	Redundancy
REF	Reference
	Refurbish, Refurbishment
REFRIG	Refrigerate
REFSMMAT	Reference Stable Member Matrix
REFURB	Refurbish
REG	Register
	Regulator, Regulate
REGEN	Regenerate
REI	Range from Entry Interface (400 K)
	Runway End Identification
REI-M	REI-Mollite
REIL	Runway End Identification Lights
REINF	Reinforce
REINIT	Reinitialize
REJ	Reject
REL	Relative
	Release
RELMAT	Relative Matrix
REM	Release-Engage Mechanism
	Release Engine Mechanism
	Release Engine Module
	Release Escape Mechanism
	Remove
	Roentgen Equivalent Man
REN RAD	Rendezvous Radar
REND	Rendezvous
REPL	Replace
REPR	Repressurization
REPRO	Reproduction
REQ	Request
	Require
REQD	Required
REQMTS	Requirements (RQMTS preferred)
RES	Reserve
	Reservoir

RESID	Residual
RESIS	Resistance
RESP	Responsibility
RESVR	Reservoir
RET	Retract
RETEN	Retention
RETRO	Retro Controller (NASA)
	Retrofire
	Retrofire Officer
RETRV	Retrieve
RETS	Reconfigurable Electrical Test Stand
	Reconfiguration Electrical Test Stand
REV	Reverse
	Review
	Revision
	Revolution
RF	Communications Support
	Radio Frequency
	Right Forward
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
	Request for Change Revolution
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
RFL	Reflect
RFO	Request for Order
RFP	Request for Proposal

RFP	Requirements and Formulation Phase
RFPA	Request for Proposal Authorization
RFQ	Request for Quotation
RFT	Ready for Training
RFW	Request for Waiver (Deviation)
RG	Radio Guide Rate Gyro
RGA	Rate Gyro Assembly
RGAL	Rate Gyro Assembly—Left SRB
RGAO	Rate Gyro Assembly—Orbiter
RGAR	Rate Gyro Assembly—Right SRB
RGM	Redundant Gyro Monitor
RGP	Rate Gyro Package
RGRMA	Rate Gyro Redundancy Management Algorithm
RH	Relative Humidity Right Hand
RHC	Right Hand Circular Rotation Hand Controller
RHCM	Relative Humidity Control/Monitor
RHCP	Right Hand Circular Polarization (Polarized)
RHEB	Right Hand Equipment Bay
RHEO	Rheostat
RHFEB	Right Hand Forward Equipment Bay
RHL	Residual Hazards List
RHM	Relative Humidity Monitor
RHP	Right Hand Panel
RHS	Right Hand Side Rocketdyne Hybrid Simulator
RHSC	Right Hand Side Console
RHT	Radiant Heat Temperature
RHU	Radioisotope Heater Unit
RHW	Router Header Word
RI	Rockwell International
RIB	Recoverable Item Breakdown Right Inboard
RIC	Resistance Inductance and Capacitance Rockwell International Corporation
RICC	Remote Intercomputer Communications Interface
RID	Review Item Disposition

RIDI	Receiving Inspection Detail Instruction
RIE	Right Inboard Elevon
RIF	Relative Importance Factor
RIG	Rate Integration Gyro
RIGI	Receiving Inspection General Instruction
RIL	Recoverable Item(s) List(s)
	Repairable Item List
	Repairable ItemList
RIPS	Radar Impact Prediction System
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
	Reaction Jet Driver
RJDA	Reaction Jet Driver Aft
RJDF	Reaction Jet Driver Forward
RJEC	Reaction Jet Engine Control
RJOD	Reaction Jet OMS Driver
RK	Recharge
RLA	Repair Level Analysis
	Repair Line Agreement
RLC	Remote Load Controller
RLEO	Request Liaison Engineering Order
RLF	Relief
RLG	Ring Laser Gyro
RLSS	Regenerative Life Support System
RLT	Return Line Tether
RLY	Relay
RM	Redundancy Management
	Reference Mission
	Remote Manipulator
	Rendezvous Maneuver
	Rescue Module
	Right Mid

RM/MS&C	Redundancy Management/Moding, Sequencing, and Control
RMA	Remote Manipulator Arm
RMC	Redundancy Management Control
RMF	RCS Module Forward
RMG	Right Main Gear
RMI	Radio Magnetic Indicator
RMRS	Repeatable Maintenance and Recall System
RMS	Radian Means per Second
	Random Motion Simulator
	Redundancy Management System
	Remote Manipulator System (Subsystem)
	Root-Mean-Square
RMSVP	Remote Manipulator Subsystem Verification Plan
RMT	Remote
RN	Reynolds Number
RNDZ	Rendezvous
RNG	Range
RNG RT	Range Rate
RO	Radar Operator
	Readout
	Receive Only
	Recovery Operations
ROB	Right Outboard
ROC	Record of Comments
	Request of Change
ROD	Remote Operated Door(s)
ROLL	Roll Angle
ROM	Read-Only Memory
	Rough Order of Magnitude
ROS	Regulated Oxygen Supply
	Regulated Oxygen System
	Removable Overhead Structure
	Rosman, North Carolina (STDN Site)
ROT	Remaining Operating Time
	Rotate, Rotation
ROTI	Recording Optical Tracking Instrument
RP	Relative Pressure

RP	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
RPLC	Replace
RPM	Revolutions per Minute
RPO	Radiation Protection Officer
RPOC	Remote Payload Operations Center
RPP	Reinforced Pyrolytic Plastic
RPS	Record and Playback System (Subsystem) Revolutions per Second
RPT	Resident Provisioning Team Rudder Pedal Transducer
RPTA	Rudder Pedal Transducer Assembly
RPV	Remotely Piloted Vehicle
RQ	Respiratory Quotient
RQMT	Requirement
RQMTS	Requirements
RR	Range Rate Rendezvous Radar Requirements Review Respiration Rate
RREA	Rendezvous Radar Electronics Assembly
RREU	Rendezvous Radar Electronics Unit
RRI	Rendezvous Radar Indicator
RRL	Rudder Reference Line
RRP	Rudder Reference Plane
RRT	Rendezvous Radar Transducer Rendezvous Radar Transponder
RS	Rawinsonde Redundancy Status Redundant Set Refurbishment Spare Remote Station



RTA	Real-Time Accumulator
RTAC	Research and Technology Advisory Committee
RTB	Resistance Temperature Bulb
RTC	Real-Time Clock
	Real-Time Command
	Real-Time Computer
	Room Temperature Cure
RTCC	Real-Time Command Controller
	Real-Time Computer Center (NASA)
	Real-Time Computer Command (Uplink)
	Real-Time Computer Complex
RTCE	Rotation/Translation Control Electronics
RTCL	Reticle
RTCP	Real-Time Communications Processor
RTCS	Real-Time Computer System
RTD	Rate Damping
	Real-Time Display
	Resistance Temperature Device
RTE	Responsible Test Engineer
RTG	Radioisotope Thermal Generation
	Radioisotope Thermoelectric Generator
	Range (Slant) to Ground
RTHC	Rotation-Translation Hand Controller
RTHS	Real-Time Hybrid System
RTIF	Real-Time Interface
RTLS	Return to Launch Site
RTN	Return
RTO	Responsible Test Organization
RTOP	Research and Technology Objectives and Plans
RTR	Rotor
RTS	Real-Time Supply
	Remote Tracking Station
RTSF	Real-Time Simulation Facility
RTTV	Real-Time Television
RTU	Remote Terminal Unit
RTV	Room-Temperature Vulcanized
RU	Remote Unit
RUD	Rudder

RS	Right Side
RSA	Reference Satellite A
RS&H	Reynolds, Smith, & Hills, Inc.
RS&S	Receiving, Shipping, and Storage
RSB	Rudder Speed Brake
RSC	Range Safety Control/Command
RSCIE	Remote Station Communication Interface Equipment
RSD	Requirements and Specifications Document
RSDP	Remote Site Data Processor
RSF	Receiving-Safing Facility
	Refurbishment and Subassembly Facilities
RSI	Reusable Surface Insulation
RSL	Resource Support List
RSLV	Resolve
RSM	Resume
RSMM	Redundant System Monitor Model
RSO	Radiological Safety Office
	Range Safety Officer
RSP	Rendezvous Station Panel
RSPL	Recommended Spare Parts List
RSS	Range Safety Switch
	Range Safety System
	Reactants Supply System
	Rib Structure Station
	Root Sum Square
	Rotating Service Structure
RSSPO	Resident Space Shuttle Project Office (Officer)
RST	Recessed Selectromatic Terminal
RSTRT	Restart
RSU	Remote Service Unit
RSVR	Reservoir
RSYS	Responsible System
RT	Range-to-Target
	Rate
	Real Time (R/T preferred)
	Receiver-Transmitter
	Reference Trajectory
	Right

RUPT	Interrupt Rupture
RUT	Resource Utilization Time
RV	Recirculation Valve Recovery Vehicle Recovery Vessel Reentry Vehicle Relief Valve Retrieval Vessel
RVCF	Remote Vehicle Checkout Facility
RVDT	Rotary Variable Differential Transducer Rotary Variable Differential Transformer
RVN	Requirements Verification Network
RVR	Runway Visible (or Visual) Range
RVS	Reverse
RW	Response Word
RWD	Right Wing Down
RWM	Read/Write Memory
RYD	Real Year Dollars
RZ	Return-to-Zero

**S**

(S)	Safe (Task Classification)
S	Second
	Side
	Star
	Stere
S CHG	Supercharge
S PRES	Star Present
S TRK	Star Tracker
S&A	Safe and Arm (Device)
	Science and Application
S&AD	Science and Applications Directorate
S&E	Science and Engineering (MSFC Directorate)
s	Second (Astronomical Tables)
S-BD	S-Band
S-Band	1550 to 5200 MHz
S-N	Stress Number
S/A	Safe and Arm
	Scheduled/Actual
	Site Activation
	Spacecraft Adapter
	Subassembly
S/AC	Stabilization/Attitude Control
S/B	Standby
S/C	Sensor/Controller
	Signal Conditioner
	Software Contractor
	Spacecraft
	Splitter/Combiner
	Stabilization and Control
	Stripchart (Recorder)
	Subcontractor
S/EOS	Standard Earth Observation Satellite
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 Shift Register Stimulus/Response
S/S	Samples per Second Single Sideband Space Shuttle Subsystem
S/Sys	Subsystem
S/U	Set Up
S/V	Space Vehicle Supply Valve
S/W	Software
SA	Safing Area Shaft Angle Single Access Site Activation Subaccount Supplemental Agreement Support Area
SAA	Safety Assurance Analysis South Atlantic Anomaly
SAAC	Schedule Allocation and Control
SAALC	San Antonio Air Logistics Center
SAAM	Special Air Force Airlift Mission
SAAMA	San Antonio Air Material Area
SAAS	Shuttle Aerosurface Actuator Simulation
SAB	Shuttle Avionics Breadboard Spacecraft Assembly Building Storage and Assembly Building

SAC	Strategic Air Command (USAF) Support Action Center
SACS	Software Avionics Command Support Systems Software Avionics Command Support
SAD	Shuttle Authorized Document Spacecraft Attitude Display Systems Allocation Document
SADEC	Spin Axis Declination
SAE	Society of Automotive Engineers
SAEF	Spacecraft Assembly and Encapsulation Facility
SAES	Stand-Alone Engine Simulator
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 Summary Analysis Report
SARP	Safety Analysis Report for Packaging Shuttle Astronaut Recruitment Program
SART	Stimuli Analog Refresh Table
SAS	Solar Array System Stability Augmentation Subsystem Stability Augmented System
SASTP	Stand-Alone Self-Test Program

SAT	Saturate, Saturated
	Systems Approach to Training
SATAF	Shuttle Activation Task Force
SATO	Shuttle Attached Teleoperator
	Supply and Transportation Operations
SATS	Shuttle Avionics Test System
	Small Applications Technology Satellite
SAU	Signal Acquisition Unit
	Strap Around Unit
SAVER	Shuttle Avionics Verification and Evaluation
SAWD	Solid Amine Water Desorbed
SB	Space Base
	Speed Brake
	Synchronization Base
	Synchronization Bit
SBA	Seat Back Assembly
	Small Business Administration
	Structure Borne Acoustic
SBAS	S-Band Antenna Switch
SBC	Speed Brake Command
SBCR	Stock Balance and Consumption Report
SBD	Schematic Block Diagram
SBE	Sub-Bit Encoder
SBHC	Speed Brake Hand Controller
SBP	San Luis Obispo (TACAN Station)
	Sonic Boom Panel
SBS	Satellite Business System
SBTC	Speed Brake/Thrust Controller
SBX	S-Band Transponder
SC	Scale
	Service Charge
	Signal Conditioner (S/C preferred)
	Statement of Capability
	Statement of Compatibility
	Support Contractor
	Surface Command
SCA	Schedule Change Authorization
	Sequence Control Assembly
	Shuttle Carrier Aircraft

SCA	Simulation Control Area Sneak Circuit Analysis
SCAN	Antenna Scan Selected Current Aerospace Notices
SCAPE	Self-Contained Atmospheric Protective Ensemble
SCARS	Serialized Control and Record System Serialized Control and Reporting System Sneak Circuit Analysis Report Summary
SCAS	Subsystem Computer Application Software
SCAT	Space Communication and Tracking Storage, Checkout, and Transport
SCATS	Simulation Control and Training System
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 Simulation 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 and Display Unit
SCE	Signal Conditioning Equipment
SCEA	Signal Conditioning Electronics Assembly
SCF	Safing and Deservicing Facility



SCF	Satellite Control Facility Sequenced Compatibility Firing Spacecraft Control Facility 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
SCGSS	Super Critical Gas Storage System
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
SCIU	Selector Control Interface Unit Spacecraft Interface Unit
SCL	Secondary Coolant Line Secondary Coolant Loop Specification Change Log
SCLM	Stability, Control, and Load Maneuvers
SCM	Site Configuration Message Subsystem Configuration Management Subsystem Configuration Monitoring System Control Module
SCMB	Development Configuration Management Board
SCMP	System Contractor Management Plan
SCN	Specification Change Notice
SCNP	Preliminary Specification Change Notice
SCNR	Scanner
SCO	Start Checkout Subcarrier Oscillator Super Critical Oxygen 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 Stripchart Recorders
SCRG	System Change Review Group (MSFC)
SCRL	Station Configuration Requirement List
SCRS	Stripchart Recording System
SCS	Secondary Coolant System Spacecraft Control System Stabilization and Control System (Subsystem)
SCT	Scanning Telescope
SCU	Secondary Control Unit Sequence Control Unit Service and Cooling Umbilical Signal Conditioning Unit Signal Control Unit
SD	Scaling and Display Smoke Detector Space Division (AFSC) Space Division (Rockwell) Spare Disposition Specification Document Supplier Documentation
SD/FS	Smoke Detector/Fire Suppression
SD/YVV	SD/Launch Base Division
SDA	Shaft Drive Axis 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

SDD	Software Design Document System Design Document
SDE	Space Division Evaluator
SDF	Safing and Deservicing Facility Single Degree of Freedom Software Development Facility System Development Facility (Breadboard)
SDG	Supplier Documentation Group
SDH	Software Development Handbook System Development Handbook
SDI	Selective Dissemination of Information
SDIF	Software Development and Integration Facility
SDL	Software Development Laboratory Standard Distribution List
SDM	Shuttle Data Management Subsystem Design Manuals System Definition Manual
SDN	Software Development Note
SDP	Shuttle Data Processor Site Data Processor Software Development Plan Supplier Data Package
SDPC	Shuttle Data Processing Complex
SDR	Software Design Requirements Software Design Review 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 (Simulator) Software Design Specification Steering Damping System
SDSS	Space Division Shuttle Simulator
SDT	Scaling and Display Task Shuttle Data Tape

SDT	Structural Dynamic Test
SDTA	Structural Dynamic Test Article
SDVF	Software Development and 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 and Checkout Facility
SEADS	Shuttle Entry Air Data Sensor Shuttle Entry Air Data System (Subsystem)
SEAID	Support Equipment Abbreviated Items Description
SEAPG	Support Equipment Acquisition Planning Group
SEARCHS	Shuttle Engineering Approach/Rollout Control Hybrid Simulation
SEB	Scientific Equipment Bay Source Evaluation Board Support Equipment Building Systems Engineering Branch
SEC	Secondary Sequential Events Controller Source Evaluation Committee
sec	Second
SECO	Sustainer Engine Cutoff
SECS	Shuttle Events Control Subsystem
SEE	Special Purpose End Effector Standard End Effector
SEG	Segment System Engineering Groundrule
SEI	Support Equipment Installation System Engineering Instrumentation
SEICO	Support Equipment Installation and Checkout
SEL	Select, Selector
SEM	Scanning Electron Microscope Seller's Engineering Memo Space Environment Monitoring System Engineering Management

SEMS	Space Environment Monitor System
SEN	Sensor
SEND	Shared Equipment Need Date
SENS	Sensitivity
SEO	Special Engineering Order
SEOS	Synchronous Earth Observation Satellite
SEP	Separation
	Source Evaluation Panel
	Support Equipment Package
SEPAP	Shuttle Electrical Power Analysis Program
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
SERV	Service
SERVO	Servomechanism
SES	Shuttle Engineering Simulation
	Special Emphasis Study
SESC	Shuttle Events Sequential Control
SESL	Space Environmental Simulation Laboratory
SEUL	Support Equipment Utilization List
SF	Safe
	Safe, R and QA (R&QA), and Protective Services (KSC Directorate)
	Safety Factor
	Scale Factor
	Selection Filter
	Signaling Frequency
	Sliding Filter
	Star Field
	Static Firing
	Subcontractor Furnished
sq ft	Square Feet
SF-SOO	KSC Safety Operations Office
SFA	Sun Finder Assembly

SFACI	Software Flight Article Configuration Inspection
SFC	Selection Filter Control Specific Fuel Consumption
SFCS	Survival Flight Control System
SFD	Crossfeed
SFDS	System Functional Design Specification
SFDT	Site Format Dump Tape
SFEX	Solar Flare X-ray Polarimeter
SFL	Secondary Freon Loop
SFME	Storable Fluid Management Experiment
SFO	Space Flight Operations
SFOM	Shuttle Flight Operations Manual
SFOP	Safety Operating Procedure (KSC)
SFP	Single Failure Point Summary Flight Plan
SFPA	Single Failure Point Analysis
SFPPPL	Short Form Provisioning Parts List
SFPS	Single Failure Point Summary
SFS	Shuttle Flight Status
SFSS	Satellite Field Service Station
SFT	Shaft Simulated Flight Test Static Firing Test
SFTA	Structural Fatigue Test Article
SFTF	Static Firing Test Facility
SFTWE	Software
SFU	Standard Firing Unit
SFW	Software
SFWE(M)	Static Feed Water Electrolysis (Module)
SG	Signal Generator
SGC	Stabilized Ground Cloud
SGLS	Space Ground Link Station Space Ground Link System
SGMT	Simulated Greenwich Mean Time
SGOS	Shuttle Ground Operations Simulation (Simulator)
SGP	Single Ground Point
SGS	Steep Glide Slope
SGSC	Strain Gage Signal Conditioner

SH <sub>2</sub>	Supercritical Hydrogen
SHĀ	Sidereal Hour Angle
	System Hazard Analysis
SHAG	Simplified High Accuracy Guidance (Honeywell)
SHDN	Shutdown
SHE	Supercritical Helium
SHERB	Sandia Human Error Rate Bank
SHF	Super High Frequency
SHLB	Simulation Hardware Load Boxes
SHLD	Shield
SHLDR	Shoulder
SHORAN	Short Range Navigation
SHP	Shaft Horsepower
SHRD	Shroud
	Supplemental Heat Rejection Devices
SHS	Simulation Hardware System
SHTR	Shutter
SHUTDN	Shutdown
SI	Center Support Operations (KSC Directorate)
	International System of Units (ISU preferred)
	Scientific Instrument
	Solar Inertial
SIA	Shuttle Induced Atmosphere
	Software Impact Assessment
	Solar Inertial Attitude
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
SIG CONDR	Signal Conditioner
SIG GEN	Signal Generator
SIL	Silver
	Sound Interference Level
	Systems Integration Laboratory
SILTS	Shuttle Infrared Leaside Temperature Sensing
SIM	Scientific Instrumentation Module
	Simulate, Simulation

SIMAS	Shuttle Information Management Accountability System
SIMCOM	Simulation Complex
SIMFAC	Simulation Facility
SIMO	Simultaneously
SIMR	Systems Integration Management Review
SIMS	Shuttle Imaging Microwave System Shuttle Inventory Management System
SIMU	Simulated Inertial Measurement Unit
SIN	Sine
SIO	Serial Input/Output Systems Integration Office
SIP	Scientific Instrument Package Separation Instrument Package Strain Isolator Pad Systems Integration Office
SIPS	Small Instrument Pointing System
SIR	Shuttle Imaging Radar Software Initiated Restart System Interface Requirements Systems Integration Review
SIR-A	Shuttle Imaging Radar-A
SIRR	Software Integration Readiness Review
SIS	SAIL Interface System Scanning Imaging Spectrometer Serial Input Special Shuttle Information System Shuttle Interface Simulator Simulator Interface System (Subsystem) Software Implementation Specification Software Integrated Schedule Standard Interface Specification Systems Integration Schedule
SISWG	STS Integrated Schedule Working Group
SIT	Shuttle Integrated Test Shuttle Interface Test Situation Software Integrated Test



SIT	SSV Integrated Test
SIU	Signal Interface Unit
SIV	Sieve
SIVE	Shuttle Interface Verification Equipment
SKD	Singer, Kearfott Division
SL	Sea Level
	Seal
	Shelf Life
	Sound Level
	Spacelab
SL&I	System Load and Initialization
SL-SS	Spacelab Subsystems
SL-SSS	Spacelab Subsystem(s) Segment
SLA	ERNO Spacelab Product Assurance Department Support and Logistics Areas
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	Space Launch Complex
	ERNO Spacelab Project Control
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 and Test
SLL	Shelf Life Limit
SLM	Sound Level Meter
SLN	ERNO Spacelab Payload
SLO	ERNO Spacelab Operations
SLOS	Star Line of Sight
SLP	ERNO Spacelab Program Office
SLPB	Spacelab Program Board
SLRV	Shuttle Launched Research Vehicle

SLS	Secondary Landing Site Sortie Lab Simulator Spacelab Simulator Statement Level Simulator
SLSA	Shuttle Logistics Support Aircraft
SLSMS	Spacelab Support Module Simulator
SLT	ERNO Spacelab Technology
SLV	Space Launch Vehicle
SM	Short Module Shuttle Management (KSC) Soft Manual Stable Member Support Module Systems Management
SM&S	Systems Management and Sequencing
SM/PM	System Management/Performance Monitor
SMAB	Solid Motor Assembly Building
SMAG	Star Magnitude
SMART	Shuttle Meeting Action - Item Review Tracking
SMB	Space Meteorology Branch
SMC	Scientific Manpower Commission
SMCC	Shuttle Mission Control Center
SMCH	Standard Mixed Cargo Harness
SMCS	Separation Monitor and Control System
SMCU	Separation Monitoring Control Unit
SMD	Spacelab Mission Development Special Measuring Device Special Measuring Service
SMDC	Shielded Mild Detonating Cord
SMEAR	Span/Mission Evaluation Action Request
SMES	Shuttle Mission Engineering Simulator Shuttle Mission Evaluation Simulation (Simulator) Superconduction Magnetic Energy Storage
SMG	Spaceflight Meteorology Group
SMIA	Serial Multiplexer Interface Adapter
SMIR	Shuttle Multispectral Infrared Radiometer
SML	Structure Mold Line
SMM	Solar Maximum Mission

SMM	Subsystem Measurement Management
SMMD	Specimen Mass Measurement Device
SMOC	Simulation Mission Operation Computer
SMP	Software Management Plan
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
SMRM	Solar Maximum Repair Mission
SMS	Separation Mechanism Subsystem
	Shuttle Mission Simulator
	Solar Maximum Satellite
	Synchronous Meteorological Satellite
SMSCC	Shuttle Mission Simulator Computer Complex System
SMSI	Standard Manned Space Flight Initiator (see NSI-I)
SMT	Selective Message Transaction
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
SNSR	Sensor
SO	Support Operations (KSC Dir.)
SO <sub>2</sub>	Sulphur Dioxide
SOAR	Shuttle Orbital Applications and Requirements
SOARS	Shuttle Operation Automated Reporting System
SOATS	Support Operation Automated Training System
SOC	Simulation Operations Center
	Simulation Operation Computer
	System Option Controller
SOCAR	Shuttle Operational Capability Assessment Report

SOCC	Satellite Operations Control Center
SOCH	Spacelab Orbiter Common Hardware
SOCS	Subsystem Operation and Checkout System
SODB	Shuttle Operational Data Book
	Start of Data Block
SODS	Shuttle Operational Data System
	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	Solar
	Solenoid
SOLN	Solution
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(s) Operating Procedure
	Subsystem Operating Program
	Systems Operation Plan
SOPC	Shuttle Operations and Planning Center
	Shuttle Operations Planning Complex
SOR	Specification Operational Requirement
	Stable Orbit Rendezvous
SORPTR	South Repeater
SORTIE	Short Term Mission
SOS	Serial Output Special
	Source of Supply
	Stabilized Optical Sight
SOT	Strap-on Tank
SOTS	Suborbital Tank Separation
SOV	Shut-off Valve
	Solenoid Operated Valve

SOW	Start of Word Statement of Work Subdivision of Work
SOX	Supercritical Oxygen
SP	Shoulder Pitch Shuttle Projects Office (KSC) Signal Processor Single Pole Single Precision Solar Physics Spare Spin Standard or Peculiar Static Pressure
SP&S	Special Processes and Sequencing
SP-AF	Air Force STS Liaison Office (KSC Shuttle) Air Force Support Office (KSC)
SP-FGS	Flight and Ground Systems Office (KSC Shuttle)
SP-ILS	Integrated Logistics Support Office (KSC Shuttle)
SP-LMO	Logistics Management Office (KSC)
SP-OPI	Operations Planning and Integration Office (KSC Shuttle)
SP-OSO	Off-Site Offices (KSC Shuttle)
SP-PAI	Project Assessment and Integration Staff (KSC)
SP-PCO	Program Control Office (KSC Shuttle)
SP-SMO	Site Management Office (KSC Shuttle)
SP-PMS	Performance Management Systems Office (KSC)
SPA	S-Band Power Amplifier Servo Power Amplifier Shared Peripheral Area Signal Processor Assembly Space Processing Application
SPACE	Spacecraft Prelaunch Automatic Checkout Equipment
SPAD	Shuttle Payload Accommodation Document Subsystem Positioning Aid Device
SPADS	Shuttle Problem Analysis Data System
SPAF	Shuttle Problem Action Data System Simulation Processor and Formatter

SPAH	Spacelab Payload Accommodations Handbook
SPAN	Spacecraft Analysis
SPART	Space Research and Technology
SPAS	Shuttle Pallet Satellite (German)
SPKB	Speed Brake
SPC	Shipping and Packing Cost
	Starting Point Code
	Stored Program Command
	Synoptic Properties Code
SPCC	STS Processing Control Center
SPCU	Simulation Process Control Unit
SPCW	Stored Program Command Word
SPD	Speed
	Standard Practice Directive
SPDB	Subsystem Power Distribution Box
SPDBK	Speed Brake
SPDCI	Standard Payload Display and Control Interface
SPDR	Software Preliminary Design Review
SPE	Solid Polymer Electrolysis
	Static Phase Error
SPEC	Specialist Function
	Specification
SPECT	Spectrometer
SPEE	Special Purpose End Effector
SPF	Single Point Failure
	Software Production Facility
	Spacelab Processing Facility
SPFA	Single Point Failure Analysis
SPFP	Single Point Failure Potential
SPG	Signal Point Ground
	Single Point Ground
SPHER	Spherical
SPI	Surface Position Indicator
SPIAP	Shuttle/Payload Integration Activities Plan
SPICE	Spacelab Payload Integration and Coordination in Europe
SPIDF	Support Planning Identification File

SPIDPO	Shuttle Payload Integration and Development Program Office (JSC)
SPIF	Standard Payload Interface Facility
SPII	Shuttle Program Implementation Instruction
SPIMS	Shuttle Program Information Management System
SPKR	Speaker
SPL	Scratch Pad Line
	Serialized Parts List
	Sound Pressure Level
	System Programming Language
SPLX	Simplex
SPLY	Supply
SPM	Subsystem Project Manager
SPMS	Special Purpose Manipulator System
SPN	Shuttle Project Notice (KSC)
SPND	Suspend
SPO	Shuttle Projects Office
	Spare Parts Order
	System Program Office
SPOC	Shuttle Payload Operations Contractor
SPOM	STS Planning and Operations Management
SPP	Simulation Planning Panel
	Solar Physics Payload
SPPII	Shuttle Preferred Pyrotechnic Items List
SPPL	Spare Parts Provisioning List
SPPP	Spacelab Payloads Processing Project
SPR	Software Problem Report
	Subcontractor Performance Review
SPRAG	STS Payloads Requirements and Analysis Group
SPRT	Sequential Probability Ratio Test
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
SQL	Squelch
SQW	Square Wave
SR	Scan Ratio
	Shift Register
	Standard Repair
	Statement of Requirements
	Status Register
	Status Report
	Status Review
	Sunrise
	Support Request
	Support Room
SR&Q	Safety, Reliability, and Quality
SR&QA	Safety, Reliability, and Quality Assurance
SRA	Spin Reference Axis
	Support Requirements Analysis
SRAG	Space Radiation Analysis Group
SRB	Solid Rocket Booster
SRBAB	SRB Assembly Building
SRBDF	SRB Disassembly Facility
SRBPF	Solid Rocket Booster Processing Facility
SRC	Sample Return Container
SRCB	Software Requirements Change Board
	Software Requirements Control Board
SRCBD	Software Requirements Change Board Directive
	Software Requirements Control Board Directive
SRCH	Search
SRD	Shuttle Requirements Definition
	Shuttle Requirements Document
	Systems Requirements Document
SRDH	Subsystems Requirement Definition Handbook
	System Requirements Definition Handbook
SRE	STDN Ranging Equipment
SRF	Shuttle Refurbishment Facility
SRH	Subsystems Requirements Handbook
SRM	Solid Rocket Motor
	Specification Requirements Manual



SRM	Standard Reference Material
SRMC	Stimulus/Response Measurements Catalog
SRN	Software Release Notice
SRO	Supervisor Range Operations
SRPA	Spherical Retarding Potential Analyzer
SRR	Shuttle Requirements Review Site Readiness Review Software Requirements Review System Requirements Review
SRS	Simulated Remote Station 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 Special Rated Thrust Specification Requirements Table Station Readiness Test Supporting Research and Technology
SRU	Shop Replacement Unit Shop-Replaceable Unit Space Replaceable Units
SRVL	Survival
SS	Shuttle System Single Sideband Single String Space Shuttle Space Station Station Set Subsystem Sunset System Software System Specification System Summary
SS&A	Space Systems and Applications
SSA	S-Band Single Access Shuttle Simulation Aircraft

SSA	Space Suit Assembly
SSA I/O	GCOS Program Element Name
SSAT	Shuttle Service and Access Tower
	Space Shuttle Access Tower (now FSS)
SSB	Single Sideband
	Source Selection Board
SSBC	Summary Sheet Bar Chart
SSC	Shuttle System Contractor
	Single-Stage Command
	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
SSD	Spacecraft Software Division
	System Summary Display
SSDD	Software System Design Document
SSDH	Subsystem Data Handbook
SSDS	Space Station Data System
SSE	Space Shuttle Engines
	Subsystem Element
	Subsystem Support Equipment
SSEOS	Space Shuttle Engineering and Operations Support
SSF	SRB Storage Facility
SSFGSS	Space Shuttle Flight and Ground System Specification
SSFL	Santa Susana Field Laboratory
SSFS	Space Shuttle Functional Simulator
SSHB	Station Set Handbook
SSI	Significant Structural Item
SSIBD	Shuttle System Interface Block Diagram
SSID	Shuttle Stowage Installation Drawing
SSIP	Systems Software Interface Processing
SSIS	Space Station Information System
SSITP	Shuttle System Integrated Test Plan

SSL	System Software Loader
SSM	Spacecraft Systems Monitor Subsystem Manager Support System Module Systems Support Module
SSMB	Space Shuttle Maintenance Baseline
SSME	Space Shuttle Main Engine
SSMEC	Space Shuttle Main Engine Controller
SSMECA	Space Shuttle Main Engine Controller Assembly SSME Controller Assembly
SSO	Safety Signification Operation Source Selection Official Space Shuttle Orbiter Subsystem Operation (in Spacelab) Support System for OEX
SSOP	Space Systems Operating Procedure(s)
SSP	Small Sortie Payload Space Shuttle Program Standard Switch Panel
SSPC	Spacelab Stored Program Command
SSPD	Shuttle System Payload Data Shuttle System Payload Definition (Study) Shuttle System Payload Description
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 Staff Support Room Station Set Requirement 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
	Spacecraft Systems Test
	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	Self Test
	Sequential Timer
	Simplification Task
	Space Telescope
	Spacelab Technology
	Special Tooling
	Star Tracker
	Starter
	Static
	Structural
STA	Shuttle Training Aircraft
	Static Test Article
	Station
	Structural Test Article
STAB	Stabilize, Stabilizer
STADAC	Station Data Acquisition and Control
STADAN	Satellite Tracking and Data Acquisition Network
	Space Tracking and Data Acquisition Network
STADN	Space Tracking and Acquisition Network

STADU	System Termination and Display Unit
STAG	Shuttle Turnaround Analysis Group
STAR	Scientific and Technical Report Shuttle Turnaround Analysis Report
STARR	Schedule, Technical, and Resources Report
STAT	Statistics Status
STBD	Starboard
STBY	Standby
STC	Satellite Test Center Spacecraft Test Conductor 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
STDY	Steady
STE	Special Test Equipment System Test Engineer
STF	Spin Test Facility (see DSTF) Structural Fatigue Test
STG	Stage
STIL	Software Test and Integration Laboratory
STIRD	SAIL Test Implementation Requirements Document
STL	Space Technology Laboratories
STLOS	Star Line of Sight
STM	Signal Termination Module Static Test Model Support Test Manager
STN	Software Trouble Note
STO	Stow
STOCC	Space Telescope Operations Control Center
STP	Self-Test Program Shuttle Technology Panel

STP	Space Technology Payload Space Test Program Subsystem Test Plan
STPH	Static Phase Error
STR	Structure System Test Review
STRB	Strobe
STRCH	Stretch
STRFLD	Star Field
STRG	Steering String
STRL	Structural
STRUC	Structure
STRUCT	Structure
STS	Shuttle Test Station Space Transportation System Structural Transition Section
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 Star Tracker Unit
SU	Support Unit
SUB	Substitute
SUBJ	Subject
SUM	Summary
SUMC	Space Ultrareliable Modular Computer
SUMM	Summary
SUMS	Shuttle Upper-Atmosphere Mass Spectrometer
SUP	Supply Support
SUPCRIT	Supercritical
SUPPR	Suppression
SUPSALV	Supervisor of Salvage (U.S. Navy)
SUPT	Support
SUPV	Supervisor

SURE	Shuttle Users Review and Evaluation
SURF	Surface
SURS	Standard Umbilical Retraction System
SUSIM	Solar Ultraviolet Spectral Irradiance Monitor
SUTAGS	Shuttle Uplink Text and Graphics Scanner
SV	Safety Valve
	Solenoid Valve
	Shuttle Vehicle
	Space Vehicle
	State Vector
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
	Space Vehicle Booster
SVC	Supervisor Call
SVDS	Space Vehicle Dynamic Simulator
SVO	Space Vehicle Operations (KSC Dir.)
SVRR	Software Verification Readiness Review
SVS	Suit Ventilation System
SW	Sea Water
	Short Wave
	Software (SFTWE preferred)
	Solar Wing
	Status Word
	Switcher (Switch)
SW/PM	System Management/Performance Monitor
SWA	Support Work Authorization
SWAA	Spacelab Window Adapter Assembly
SWAD	Subdivision of Work Authorization Document
SWAT	Stress Wave Analysis Technique
SWG	Software Working Group
SWOB	Salaries, Wages, Overhead, and Benefits
SWP	Safe Working Pressure
SWR	Standing Wave Ratio
SWS	Switch Scan
SWT	Supersonic Wind Tunnel

SWT	Sextant
SXT	Sextant
SY	Shoulder Yaw
	System
SYM	Symbol
SYMM	Symmetrical
SYN	Synchronous
	Synthetic
SYNC	Synchronize
SYNCOM	Hughes Spin Stabilized Spacecraft
	Synchronous Communication Satellite (Hughes)
SYS	System
SYSTRAN	Systems Analysis Translator



T

T	Talk/Monitor
	Temperature
	Test
	Thermostabilized
	Throttle Command
	Time
	Top
	Total Temperature
	Transformation (Matrix), Transpose (Matrix Superscript)
T	Temperature Rate
T&CD	Timing and Countdown
T&CP	Test and Checkout Procedure
T&D	Transportation and Docking
T&E	Test and Evaluation
T&M	Time and Materials
T&O	Test and Operations
T+	Time Postintegration
T-	Time Prior to Launch
T-0	Time Zero
T-O	Takeoff
T.B.	Toggle Buffer
T.P.	Transition Period
T/A	Turnaround
T/C	Telecommunications
	Temperature Compensating
	Termination Check
	Thrust Chamber
T/CAP	Thermal Capacitor
T/D	Time Delay
	Touchdown
T/E	Transporter/Erector
T/L	Talk and Listen
	Timeline
	Transformer Load
T/O	Takeover

T/R	Tape Recorder Technical Report Transformer Rectifier Transportation Request 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 Weight Thrust-to-Weight
TA	Task Analysis Test Article Time Actual Travel Authorization Trunnion Angle
TAA	Technical Assistance Agreement Temporary Access Authorization
TAC	Kennedy Space Center Landing Site, Florida (STDN Site) Tactical Air Command Total Average Cost
TAC/RA	TACAN Radar Altimeter
TACAN	Tactical Air Command and Navigation System Tactical Air Navigation
TACH	Tachometer
TACO	Test and Checkout Operations
TAD	Temperature and Dewpoint
TAEM	Terminal Area Energy Management
TAG	Technical Air-to-Ground
TAGS	Text and Graphics System
TAIR	Test Assembly Inspection Record
TAL	Transatlantic Abort Landing Transoceanic Abort Landing
TALAR	Tactical Approach and Landing Radar
TAM	Thermal Analytical Model
TAN	Tananarive, Madagascar (STDN Site)
TAO	Trans-Atlantic Abort

TAP	Technical Achievement Plan Telemetry Acceptance Pattern Test Administration Plan Total Air Pressure
TAR	Technical Analysis Request Test Action Requirement Test Agency Report
TARC	Through Axis Rotational Control
TAS	Telemetry Antenna Subsystem Test Article Specification True Airspeed
TASPR	Technical and Schedule Performance Report
TAT	Technical Acceptance Team Total Air Temperature Turnaround Time
TATI	Total Air Temperature Indicator
TB	Talk Back Terminal Base Terminal Board Time Base Time Duration of Burn Toggle Buffer
TBA	To Be Added To Be Announced
TBC	Terminal Buffer Controller
TBD	To Be Defined To Be Determined To Be Developed
TBE	To Be Evaluated
TBF	Test de Bon Fonctionnement (Spacelab)
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 Time to Circular Traceability Code Tracking Camera
TCA	Thrust Chamber Assembly Time of Closest Approach Translation Controller Assembly
TCAB	Temperature of Cabin
TCC	Test Control Center Thermal Control Coating
TCD	Test Completion Date Test Control Document
TCE	Thermal Canister Experiment
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 Checkout Plan(s)
TCP	Task Control Packet Test Checkout Procedure Test Control Package Thrust Chamber Pressure
TCR	Test Compare Results Test Conductor Test Constraints Review

TCR	Thermal Concept Review
TCRSD	Test and Checkout Requirements Spec. Documentation
TCS	Technical Change Summary Technical Concurrence Sheets Test Control Supervisor Test Control System Thermal Control System (Subsystem)
TCSSS	Thermal Control Subsystem Segment
TCTI	Time Compliance Technical Instruction
TCTO	Time Compliance Technical Order
TCU	Tape Control Unit
TCV	Temperature Control Voltage Thrust Chamber Valve
TD	Technical Directive Terminal Distributor Test Director (NASA) Time Delay Touch Down
TD&SA	Telephone, Data, and Special Audio
TDD	Task Description Document
TDM	Time-Division Multiplexing (Multiplexer)
TDP	Temperature and Dewpoint Tracking Data Processor
TDR	Technical Design Review Technical Documentation Report Test Discrepancy Report
TDRR	Test Data Recording and Retrieval
TDRS	Telemetry Downlist Receiving Site 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 Timing Electronics

TE	Trailing Edge
TEC	Test Equipment Center
TECH	Technical Technician
TED	Trailing Edge Down
TELCOM	Telecommunications
TELESAT	TELESAT (Canadian Payload, 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 Engineer Readiness List Test Equipment Readiness List
TERM	Terminate
TESH	Technical Shop
TET	Test Evaluation Team
TF	Test Facility Test Fixture
TFC	Time from Cutoff
TFCS	Triplex Flight Control System (Subsystem)
TFE	Time from Event
TFF	Time to Free Fall
TFI	Time from Ignition
TFL	Telemetry Format Load Time from Launch
TFOV	Total Field of View
TFR	Trouble and Failure Report
TFS	Telemetry Format Selection
TFU	Test Facility Utilization
TG	Ground Systems (KSC Directorate) Ground Systems, TS
TGA	Thermal Gravimetric Analysis Trace Gas Analyzer
TGO	Time to Go
TGOWG	Teleoperator Ground Operations Working Group

TGS	Rate Gyro Assembly Telemetry Ground Station Telemetry Ground System
TGSE	Telemetry Ground Support Equipment
TGT	Target
THC	Translation Hand Controller
THDS	Time Homogeneous Data Set
THEO	Theoretical
THERM	Thermal
THOLD	Threshold
THOUS	Thousand
THP	Thrust Horsepower
THROT	Throttle
TI	Information Systems (KSC Directorate) Information Systems (TS) Technical Integration Training Integrator (Integration)
TIC	Technical Information Center Total Item Change
TICM	Test Interface and Control Module
TIFS	Total In-Flight Simulator
TIG	Time of Ignition
TII	Tooling Inspection Instrumentation
TIM	Technical Interchange Meeting Time Interval Monitor
TIP	Thrust Inlet Pressure
TIROS	Topographical Infrared Operations Satellite
TIS	Test Interface Subsystem
TK	Tank
TL	Lot Traceability Thrust Level Time Latest Transient Load
TLC	Telecommand
TLCE	Transmission Line Conditioning Equipment
TLD	Thermoluminescent Dosimeter
TLM	Telemetry
TLS	Time Line Sheet

TLS	Top Left Side
TLSA	Torso Limb Suit Assembly
TLSCP	Telescope
TLV	Threshold Limit Value
	Transporter—Loader Vehicle
TM	Member Traceability
	Table Maintenance
	Technical Management
	Telemetry
	Time Management
	Traffic Model
TMB	Transportation Management Bulletin
TMBU	Table Maintenance Block Update
TMC	Test Monitoring Console
TMF	Transporter Maintenance Facility
TMECO	Time of Main Engine Cutoff
TMG	Thermal Meteoroid Garment
TMI	Technical Management Items
TMO	Test Manufacturing Order
	Tool Manufacturing Order
TMP	Terminal Panel
	Time Management Processor
TMPRY	Temporary
TMPV	Torquemotor Pilot Valve
TMR	Timer
TMU	Temperature Measurement Unit
TN	Technical Note
TNL	Tunnel
TNT	Trinitrotoluene
TO	Operations Management (KSC Directorate)
	Operations Management (TS)
	Takeoff
	Task Order
	Technical Order
TOC	Test Operations Center
	Test Operations Change
	Total Organic Carbon
TOF	Test Operations Facility



TOG	Toggle
TOI	Transfer Orbit Insertion
TOL	Tolerance
TOO	Test Operations Order
	Threshold of Odor
TOP	Technical Operating Procedure
TOPS	Transistorized Operational Phone System
TOS	Test Operating System
TOT	Total
TOW	Tank and Orbiter Weight
TP	Test Point
	Test Port
	Test Procedure
	Time to Perigee
	Training Plan
	Transition Period (T.P. preferred)
	True Position
	Turbo Pump
	Type
TP&C	Thermal Protection and Control
TPA	Test Preparation Area
TPAD	Trunnion Pin Attachment Device
TPC	Telemetry Preprocessor Computer
TPDS	Test Procedures Development System
TPE	Test Project Engineer
TPF	Terminal Phase Finalization (Braking)
	Terminal Phase Finish
	Transfer Phase Final
	Tug Processing Facility
TPI	Terminal Phase Initiation
TPM	Technical Performance Measurement (System)
	Terminal Phase Maneuver
	Terminal Phase Midcourse
	Transfer Phase Midcourse
TPM1	Terminal Phase Midcourse #1
TPM2	Terminal Phase Midcourse #2
TPO	Test Program Outline
TPR	Teleprinter

TPR	Test Problem Report
TPS	Test Preparation Sheet
	Thermal Protection Subsystem
	Thermal Protection System (SRB, ET, or Orbiter)
	Twisted Pair Shielded
TPSE	Thermal Protection Subsystem Experiments
TPUN	Test Procedure Update Notice
T/R	Transmitter/Receiver
TR	Technical Report
	Test Request
	Thrust Reverser
	Time to Retrofire
	Transportation Request
TR/SBS	Teleoperator Retrieval/Skylab Boost System
TR1	Payload Furnished Mars Tape Recorder (1 of 2)
TR2	Payload Furnished Mars Tape Recorder (2 of 2)
TRA	Training Requirements Analysis
	Turnaround Requirements Analysis
TRACS	Tool-Record Accountability System
TRAJ	Trajectory
TRANS	Transition
	Translation
TRANSL	Translation
TRB	Technical Review Board
	Test Review Board
TRBL	Troubleshooting
TRCP	Tape Recorder Control Panel (L10)
TRD	Test Requirements Document
TRF	Tuned Radio Frequency
TRK	Track
TRKR	Tracker
TRL	Test Readiness List
TRN	Trunnion
TRNG	Training
TRQ	Torque
TRR	Test Readiness Review
TRRB	Test Readiness Review Board
TRS	Teleoperator Retrieval System
	Time Reference System
	Top Right Side

TRS	Troubleshooting Record Sheet
	Tug Rotational System
TRSD	Test Requirements Specification Document
TRUN ANG	Trunnion Angle
TS	Serial Traceability
	Technical Support (KSC Directorate)
	Tensile Strength
	Test Site
	Test Stand
	Test Station
	Time Scheduled
	Timing System
TSA	Test Start Approval
TSAC	Tracking System Analytical Calibration
TSB	Temporary Stowage Bag
	Twin Sideband
TSC	Test Setup Complete
	Test Support Coordinator
	Two-Stage Command
TSCION	TSC I/O Number
TSCO	Test Support Coordination Office
	Test Support Coordinator
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
	TPS Summary Sheet Control

TSS	Tug Structural Support
TSSU	Test Signal Switching Unit
TST	Test
TSU	Time Standard Unit
TSW	Test Software
	Test Switch
TT	Terminal Timing
	Thrust Termination
	Total Temperature
	Total Time
TT&C	Tracking Telemetry and Control
TTA	Thermomechanical Test Area
	Time to Apogee
TTC	Telemetry, Tracking, and Command
	Time to Circularize (Orbit)
	Tunnel Thermal Control
TTCA	Thrust Translation Controller Assembly
TTCV	Tracking Telemetry, Command, and Voice
TTE	Time to Event
TTEL	Tool and Test Equipment List
TTG	Time to Go
TTL	Transistor-Transistor Logic
TTLM	Through-the-Lens Light Metering
TTP	Time to Perigee
TTU	Timing Terminal Unit
TTV	Termination, Test, and Verification
TTY	Teletype
TU	Technical Utilization
	Technology Utilization
	Transport Unit
TUL	Tula Peak, NM (STDN site)
TURB	Turbine
TV	Television
	Thermal Vacuum
	Thrust Vector
	Transport Vehicle
TVA	Thrust Vector Alignment
TVAR	Test Variance

TVC	Thermal Vacuum Chamber Thrust Vector Control
TVCA	Thrust Vector Control Actuator
TVCD	Thrust Vector Control Driver
TVCS	Thrust Vector Control System
TVEXPIS	TV Experiment Interconnecting Station
TVN	Test Verification Network
TVP	Test Verification Program
TVS	Toxic Vapor Suit
TVSA	Thrust Vector Control Servoamplifier
TVSSIS	TV Subsystem Interconnecting Station
TVT	Thermal Vacuum Test
TVTA	Thermal Vacuum Test Article
TW	Tailwind Thumbwheel Time Words Traveling Wave
TWD	Twisted Double Shielded
TWL	Total Weight Loss
TWR	Tower
TWT	Traveling Wave Tube Trisonic Wind Tunnel (Rockwell)
TWTA	Traveling Wave Tube Amplifier
TWX	Teletype Wire Transmission
TX	Translation Hand Controller X-Axis Direction Transmit Channel
TX/RX	Transmitter/Receiver
TY	Translation Hand Controller Y-Axis Direction
TYP	Typical
TZ	Translation Hand Controller Z-Axis Direction

## U

U	Underfloor
	Uranium
U-SB	Unified S-Band
U/C	Under Current
U/D	Update
U/L	Uplink (UPLK preferred)
U/M	Unit of Measure
	Unmanned
	Unscheduled Maintenance
U/O	Used on
U/V	Under Voltage
U/W	Used with
UA	Microampere
UB	Upper Brace
	Utility Bridge
UBE	Universal Bus Exercisor
UBIC	Universal Bus Interface Controller
UC	Unsatisfactory Condition
UCC	Universal Checkout Console
UCD	Urine Collection Device
UCN	Uniform Control Number
UCPU	Urine Collection and Pretreatment Unit
UCR	Unsatisfactory Condition Report
UCS	Universal Control System
	Utilities Control System
UCTA	Urine Collection Transfer Assembly
UD	Update
UDB	Update Buffer
UDF	Utility and Data Flow
UDL	Updata Link
	Update Link
UDMH	Unsymmetrical Dimethylhydrazine
UDMH/H	Unsymmetrical Dimethylhydrazine Hydrazine Blend
UDOP	Ultrahigh Doppler
UDS	Universal Documentation System
UER	Unique Equipment Register

UF	Microfarad
UFD	User File Directory
UG	Microgram
UHF	Ultrahigh Frequency
UI	Unit of Issue User Interface
UL	Underload Uplink Upper Left (S-Band Antenna) Upper Limit
ULA	Fairbanks, Alaska (STDN Site)
ULL	Ullage
ULO	Unmanned Launch Operations
ULT	Ultimate
UMB	Umbilical
UMBC	Umbilical Cord Cable
UMO	Unmanned Orbital
UMVF	Unmanned Vertical Flight
UNBAL	Unbalance
UNDK	Undock
UNDV	Undervoltage
UNIV	Universal
UNLCH	Unlatch
UNLK	Unlock
UP	Upper
UPP	User Parameter Processing
UPLK	Uplink
UPS	Uninterruptible Power Supply Uninterruptible Power System Upright Perigee Stage
USA	United States of America
USN	United States Navy
UPTLM	Uplink Telemetry
UR	Unsatisfactory Report Upper Right
URA	Urine Receptacle Assembly
URN	Urine
URT	Upright

US	United States
	Upper Stage
USAF	United States Air Force
USB	Unified S-Band
	Upper Side Band
USBE	Unified S-Band Equipment
USBI	United Space Booster, Inc.
USBS	Unified S-Band System (Subsystem)
USEC	Microsecond
USI	Update Software Identity
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)
	Universal Servicing Tool
UT	Umbilical Tower
	Unit Tester
	Universal Time
UT&GS	Uplink Text and Graphics System
UTC	Coordinated Universal Time
	United Technology Center
	Unit Test Cases
	Universal Test Console
UTE	Universal Test Equipment
UTIL	Utility
UTLM	Up Telemetry
UTS	Urine Transfer System
UU	Micromicron
UUT	Unit Under Test
UV	Microvolt
	Ultraviolet
	Under Voltage (U/V preferred)
UVD	Under Voltage Device
UVF	Unmanned Vertical Flight
UW	Microwatt
UWS	User Work Station



V

V	Valve Velocity Verb Voice Volt Voltage
V P-P	Volt Peak-to-Peak
V&DA	Video and Data Acquisition Video and Data (Processing) Assembly
V&V	Validation and Verification
V-A	Vibro-Acoustic Volt-Ampere
V-BAND	46,000 to 56,000 MCS
V-BAR	Velocity Vectory Axis
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/M	Velocity Meter
V/V	Validation and Verification (also V&V) Vent Valve
VA	Velocity at Apogee Vibro-Acoustic Test Volt Ampere
VA/T/VTA	Vibro-Acoustic/Thermal/Vacuum Test Article
VAA	Vehicle Assembly Area Viewpoint Adapter Assembly
VAB	Vehicle Assembly Building
VAC	Vacuum Vehicle Assembly and Checkout Volts, ac
VAD	Vandenberg Addendum Document
VAFB	Vandenberg Air Force Base
VAK	Vertical Access Kit Vertical Assembly Kit
VAL	Valid

VALID	Validation
VAN	USNS Vanguard (STDN)
VAP	Vapor
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
VCAP	Vehicle Charging and Potential Experiment
VCB	Vertical Location of the Center of Buoyancy
VCC	Verification Code Counter
VCD	Verification Control Document
VCD(S)	Vapor Compression Distillation (Subsystem)
VCE	Voice
VCG	Vector Cardiogram Vertical Location of the Center of Gravity
VCI	Velocity Change Indicator
VCM	Volatile Condensable Material
VCN	Verification Completion Notice
VCO	Voltage Controlled Oscillator (Oscillation)
VCP	Vandenberg Contract Report
VCS	Verification Control Sheet Voice Command System
VCT	Voltage Control Transfer
VCTR	Vector
VCU	Video Control Unit
VDA	Valve Driver Assembly Variable Data Area
VDC	Volts, dc
VDD	Verification Description Document Version Description Document
VDI	Vendor Documentation Inventory Vertical Display Indicator

VDS	Vehicle Dynamics Simulator
VDT	Vehicle Data Table
VDU	Visual Display Unit
VE	Equivalent Velocity
	Shuttle Engineering (KSC VBO Directorate)
VECIB	Vehicle Engineering Change Implementation Board
VECO	Vernier Engine Cutoff
VEDS	Vehicle Emergency Detection System
VEEI	Vehicle Electrical Engine Interface
VEFCO	Vertical Functional Checkout
VEH	Vehicle
VEH ID	Vehicle Identification
VEI	Vehicle End Item
VEL	Velocity
VER	Verify
VERIF	Verification
VERLORT	Very Long Range Tracking Radar
VERN	Vernier
VERT	Vertical
VF	Vertical Flight
	Video Frequency
VFE	Vendor Furnished Equipment
VFI	Verification Flight Instrumentation
VFO	Variable Frequency Oscillator
VFR	Visual Flight Rules
VFT	Verification Flight Test
VGIMU	Velocity To Be Gained as Related to IMU Orientation
VGOR	Vandenberg Ground Operations Requirement
	Vehicle Ground Operation Requirements
VGP	Vehicle Ground Point
VGT	Vehicle Ground Test
VGVT	Vertical Ground Vibration Test
VGX	Velocity To Be Gained (Body X-Axis)
VGY	Velocity To Be Gained (Body Y-Axis)
VGZ	Velocity To Be Gained (Body Z-Axis)
VHAA	Very High Altitude Abort
VHF	Very High Frequency
VHF/AM	Very High Frequency Amplitude Modulator
VHF/DF	Very High Frequency Direction Finder
VI	Internal Velocity

VIA	By Means of (By Way of)
VIB	Vertical Integration Building Vibrate, Vibration
VIC	Visitors Information Center
VID	Video
VIDD	Vertical Interval Data Detector
VIS	Verification Information System Visibility Visual
VISC	Viscosity
VITT	Vehicle Integration Test Team
VIU	Video Interface Unit
VJ	Vacuum Jacketed
VL	Expendable Vehicles (KSC VO Dir.)
VLBI	Very Long Baseline Interferometer
VLF	Very Low Frequency
VLPS	Vandenberg Launch Processing System
VLR	Very Low Range
VLS	Vandenberg Launch and Landing Site
VLV	Value Valve
VM	Virtual Memory Voltmeter
VMF	Vertical Maintenance Facility
VMS	Velocity Measuring System
VO	Shuttle Operations (KSC Directorate) Space Vehicle Operations (KSC Dir.) Vehicle Operations Velocity Initial Voice
VOIR	Venus Orbiter Imaging Radar
VOL	Volume
VOM	Voltohmmeter
VOMD	VAFB Operations and Maintenance Documentation
VOR	VHF Omnidirectional Radio Range
VOR-DME	VHF Omni Range-UHF Distance Measuring Equipment
VORTAC	VHF Omni Range Tactical Air Navigation Variable Omni Range Tactical (VOR and TACAN)
VOT	VHF Omni Test
VOX	Voice Operated Transmitter (Transmission)

VP	Shuttle Payloads (KSC VO Dir., see CO, CS, CV) Vacuum Pump Verification Polarization Vertical Polarization Viewpoint
VPF	Vertical Processing Facility
VPHD	Vertical Payload Handling Device
VPI	Valve Position Indicator
VPK	Volts Peak
VPM	Vehicle Project Manager
VR	Variable Reluctance Velocity, Relative Video Recorder Voltage Regulator Voltage Relay
VRB	VHF Recovery Beacon
VRCS	Vernier Reaction Control System
VREL	Relative Velocity
VRF	Vertical Removal Fixture
VRL	Vertical Recovery Line Vertical Reference Line
VRMS	Volts Root Mean Square
VRNR	Vernier
VRR	Verification Readiness Review
VS	Staging Velocity
vs	Versus
VSA	Variable Stability Aircraft Verification Site Approval
VSB	Vestigial Side Band
VSD	Vertical Situation Display
VSN	Video Switching Network
VSI	Vertical Speed Indicator Video Simulation Interface
VSO	Very Stable Oscillator
VSTAG	Vandenberg Shuttle Turnaround Analysis Group
VSWR	Visual Standing Wave Ratio Voltage Standing Wave Ratio
VT	STS Processing (KSC VO Dir.)

VT	Vent
VTF	Vertical Test Flight
VTM	Vibration Test Module
VTN	Verification Test Network
VTP	Vehicle Test Plan
	Verification Test Plan
	Verification Test Program
VTR	Verification Text Reports
	Video Tape Recorder
VTS	Vandenberg Tracking Station
	Vertical Test Site
	Vertical Test Stand
	Vertical Test System
VTVM	Vacuum Tube Voltmeter
VTX	Vertex
VU	Vehicle Unit
	Vehicle Utility
	Volume Unit
VV	Vent Valve
	Vertical Velocity
VVI	Vertical Velocity Indicator
VX	Velocity along the X-Axis
VY	Velocity along the Y-Axis
VZ	Velocity along the Z-Axis

## W

W	Watt
	West
	Wide
	Window
W&B	Weight and Balance
W&C	Wire and Cable
W-G	Water-Glycol
W/	With
W/B	Wideband
W/E	Wing Elevon
W/G	Water/Glycol
W/h	Watt-Hour
W/O	Without
W/S	Work Station
W/T	Wind Tunnel
W/W	Weather
	Wheel Well
	Wrist Yaw
W/WMS	Water/Waste Management System (Subsystem)
WA	Wide Angle
	Work Authorization
WAD	Work Authorization Document
WAD/SO	Work Authorization Document/Shop Order
WAN	Work Authorization Number
WAR	Work Authorization Report
WARN	Warning
WAT	Web Action Time
WB	Waterboiler
	Wet Bulb
	Wide Band
WBC	White Blood Cells
WBDI	Wideband Data Interleaver
WBR	Work Bench Rack
WBS	Work Breakdown Structure
WBSC	Wide-Band Signal Conditioner
WBT	Wide-Band Terminal

WBTS	Wide-Band Transmission System
WCCS	Window Contamination Control Number
WCDB	Work Control Data Base
WCL	Water Coolant Line
	Water Coolant Loop
WCP	Wing Chord Plane
WCS	Waste Collection System
	Work Control System
	Writable Control Storage
WD	Width
	Wired Discrete
	Word
	Work Days
WEA	Weather
WES	Water Electrolysis System
WG	Wave Guide
	Wing
WGS	Water Glycol Service Unit
WHL	Wheel
Whr	Watt-Hour
WIB	When Interrupt Block
WIF	Water Immersion Facility
WINDS	Weather Information Network Display System
WIP	Work in Progress
WIX	Wait for Index
WL	Wavelength
WM	Waste Management
WMC	Waste Management Compartment
WMS	Waste Management System
WND	Wind
WO	Work Order
WOC	Work Order Control
WONG	Weight on Nose Gear
WOW	Weight on Wheels
	Worst on Worst
WOWLON	Weight on Wheels Lock on
WP	Way Point
	Work Package



WP	Working Pressure Wrist Pitch
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
WR	Wrist Roll
WRG	Wiring
WRL	Wing Reference Line
WRO	Work Release Order
WS	Water Servicer Wind Shield Work Statement
WSB	Water Spray Boiler
WSC	Wide-Band Signal Conditioner
WSCC	Work Station Control Center
WSD	Wide-Band Data
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
WSWR	Variable Standing Wave Ratio (Rate)
WT	Watchdog Timer Weight Wire Ticket
WTA	Wire Traceability and Accountability
WTR	Water

WTR	Western Test Range
WTR SYS	Water System
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
WWMS	Waste Water Management System
WX	Weather

## X

X	Times (by, trans-)
X <sub>L</sub>	X-Axis of Spacelab
X <sub>O</sub>	X-Axis of Orbiter
X <sub>P</sub>	X-Axis of Payload
X <sub>S</sub>	X-Axis of Solid Rocket Booster
X <sub>T</sub>	X-Axis of External Tank
XCVR	Transceiver
XDCR	Transducer
XDUCER	Transducer
XFD	Crossfeed
XFER	Transfer
XLTN	Translation
XMT	Transmit
XMTR	Transmitter
XO	Orbiter Structural Body Reference, X-Axis
XP	Payload Structural Body Reference, X-Axis
XPNDR	Transponder
XRP	X-ray Polychromator
XTAL	Crystal

Y

Y	Horizontal Axis—Width of Vehicle Lateral Acceleration Out-of-Plane Position Y-Axis Y-Axis, Horizontal—Width of Vehicle/Structure Yaw
Y	Out-of-Plane Velocity Y-Axis Rate of Change
Y <sub>L</sub>	Y-Axis of Spacelab
Y <sub>O</sub>	Y-Axis of Orbiter
Y <sub>P</sub>	Y-Axis of Payload
Y <sub>S</sub>	Y-Axis of Solid Rocket Booster
Y <sub>T</sub>	Y-Axis of External Tank
Y-T	Yaw Trim
yd	Yard
YP	Yield Pointer
yr	Year
YS	Yield Strength
YSC	Yearly Spares Cost
YST	Yearly Spares Cost
YT	Station Identification Symbol
YV	Deputy for Space Launch Systems
YVC	Directorate of Configuration and Information Management
YVCB	Configuration/Data Management Division
YVGF	Financial Management Division (SD)
YVGR	Requirements and Analysis Division (SD)
YVV	Directorate of Launch Base Operations
YVV-1	Program Safety Office (SD)
YVVE	Engineering Division
YVVI	Inertial Upper Stage (SD)
YVVL	Integrated Logistics Support Division (SD)
YVVO	Operations Division
YVVS	DOD Mission Support Division, JSC (SD)

## Z

Z	Impedance Normal Acceleration (Load Factor) Z-Axis Direction Z-Axis Rate of Change Zone Zulu (Greenwich Mean Time—GMT)
Z <sub>L</sub>	Z-Axis of Spacelab
Z <sub>O</sub>	Z-Axis of Orbiter
Z <sub>P</sub>	Z-Axis of Payload
Z <sub>S</sub>	Z-Axis of Solid Rocket Booster
Z <sub>T</sub>	Z-Axis of External Tank
ZCG	Impedance Cardiogram
ZGT	Zero Gravity Trainer
ZI	Zone of Interior (Continental USA)
ZLV	Z Local Vertical (Payload Bay toward Earth)
ZO	Station Identification Symbol, Orbiter X-Axis
ZOP	Zero Operational Ajont Code
ZPN	Impedance Cardiogram Impedance Pneumogram
ZrO <sub>2</sub>	Zirconium Oxide
ZSI	Z Solar Inertial (Payload Bay facing away from Sun)

**BIBLIOGRAPHIC DATA SHEET**

1. Report No. NASA RP-1059 Revised		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle Space Transportation System and Associated Payloads: Glossary, Acronyms, and Abbreviations			5. Report Date February 1985		
			6. Performing Organization Code		
7. Author(s)			8. Performing Organization Report No.		
9. Performing Organization Name and Address National Aeronautics and Space Administration Scientific and Technical Information Branch Washington, DC 20546			10. Work Unit No.		
			11. Contract or Grant No.		
			13. Type of Report and Period Covered Reference Publication		
12. Sponsoring Agency Name and Address			14. Sponsoring Agency Code		
15. Supplementary Notes					
16. Abstract  <p>This is a collection of some of the acronyms now in everyday use in the Shuttle world. It is a combination of lists that have been prepared at the Kennedy and Johnson Space Centers and by the Air Force, places where intensive Shuttle activities are under way. In the nature of acronyms—which are compressed identifiers of systems or structures felt too long and cumbersome to be christened in the normal fashion—the list is neither comprehensive nor totally up to date. Let no one think this list has the status and sanction of a dictionary; it is intended as a guide or reference. It is not to be used in an official capacity.</p> <p>The transience of technical acronyms is best demonstrated by contrasting this list with the special lingo and jargon employed only a decade ago during the Apollo Program. A limited number of terms are the same, but the working groups speak in a different dialect. Perhaps the best way to think of this collection is as a phrase-book to help the users make their way in comprehending parts of a brand-new world.</p>					
17. Key Words (Selected by Author(s))  Shuttle Space Transportation System			18. Distribution Statement  STAR Category 16 Unclassified -- Unlimited		
19. Security Classif. (of this report) Unclassified		20. Security Classif. (of this page) Unclassified		21. No. of Pages 307	22. Price* A14

\*For sale by the National Technical Information Service, Springfield, Virginia