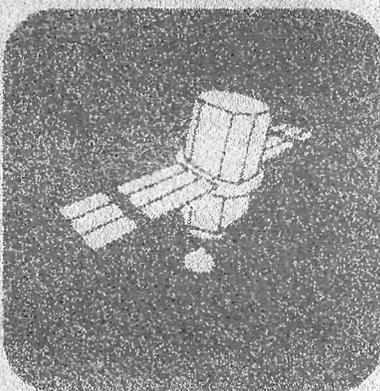
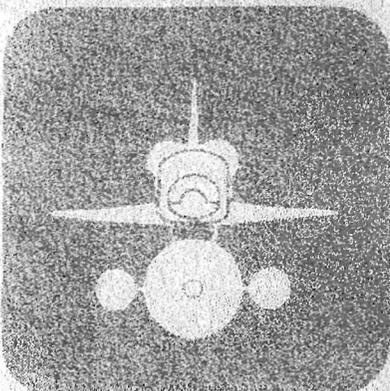
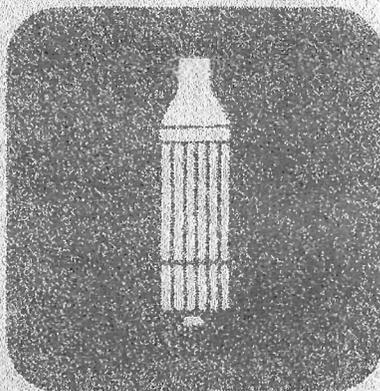
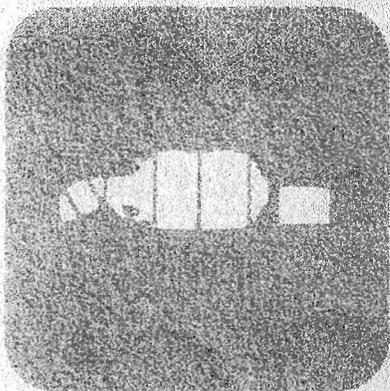


NASA Kennedy
Space Center

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Glossary, Acronyms, Abbreviations

Space Transportation System
and Associated Payloads



GLOSSARY, ACRONYMS, ABBREVIATIONS

SPACE TRANSPORTATION SYSTEM AND ASSOCIATED PAYLOADS

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FOREWORD

This document was prepared in order to facilitate communications for the Space Transportation System (STS) and Associated Payloads (see Glossary for definitions). It contains a glossary and a listing of Acronyms and Abbreviations in current use, and is intended for use by those who write/interpret/prepare material for publication relative to the Space Transportation System.

It is recognized that the listing is not all inclusive or complete. This document will periodically be updated to provide a current listing of all approved STS and Associated Payloads acronyms and abbreviations.

Copies of this document are available at the KSC Library (Documents Section).

Recommendations relative to this listing should be directed to:

Dr. A. M. Koller, Jr., SP-MPC, 867-2126

DISTRIBUTION:

STDL-E
NWSI-D (300 copies)

SECTION I

GLOSSARY

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

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.

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.

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 (STS).

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.

A propulsion system that is used to provide midcourse trajectory corrections, braking maneuvers, and/or orbital adjustments.

BILL OF WORK (BOW)

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 data.

CARGO

Everything contained in the Shuttle Payload Bay plus other equipment located elsewhere in the Orbiter which is user unique and not carried in the standard baseline Orbiter weight budget.

CERTIFICATION

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

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.

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 KSC contracting office to the selected contractor authorizing commencement of work. Issue of the notice of award by the KSC procurement office completes this milestone.

CONSTRUCTION COMPLETE

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

CONTRACT AWARD

The effective date of direction from the KSC contracting office to the selected contractor authorizing commencement of work. Issue of the notice of award by the KSC 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.

CUSTOMER (or USER)

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

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.

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 (CDR).

The completion of a meeting chaired by the KSC Shuttle Projects Manager, or his designated representative, to assure that the completed designs are in consonance with Level II and project specifications.

Preliminary Design Review (PDR).

The completion of a meeting chaired by the KSC Shuttle Projects 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 DE 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 DE project engineer, or his designated representative, at which final designs are reviewed to assure compliance with system and project specifications.

DRAWINGS

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

END ARTICLE/END ITEM

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

END ITEM

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

ESTIMATED ON DOCK (EOD) DATE

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

EXPERIMENT

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

- Discover unknown phenomena
- Establish the basis of known laws
- Evaluate applications processes and/or equipment

FACILITY NEED DATE

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

FAILURE MODES AND EFFECTS CRITICALITY ANALYSIS (FMECA)

An analysis to determine a 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 (FSCM)

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 (FMOF)

Liftoff of the first manned Space Shuttle from the launch pad at KSC on the first manned orbital flight. 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 might deliver more than one payload. More than one flight might be required to accomplish one mission.

FLIGHT READINESS FIRING (FRF)

First 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 flight readiness firing. Engine shutdown after 20 seconds of sustained firing completes this milestone.

FREE FLYER

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

GROUND SUPPORT EQUIPMENT (GSE)

Non-flight equipment, implements and the devices required for the handling, servicing, inspection, testing, maintenance, alignment, adjustment, check, repair and overhaul of an operational end item or a sub-system or component thereof. This may include equipment required to support another item of ground support equipment 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 KSC office completes this milestone.

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.

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 SP site activation office completes this milestone.

INITIAL OPERATIONAL CAPABILITY (IOC)

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 DE site activation office declares the complete system has been installed at the facility. Certification by the SP 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 of deterioration.

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 components, subsystems, and system elements into desired configuration, and to verify compatibility between the constituents of the assembly.

INTEGRATION LEVELS

Level I-

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

Level II-

Element 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 the 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 constituents of a 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.

INTERIM UPPER STAGE (IUS)

An upper stage capable of being launched from the cargo bay of the Orbiter, and intended for use prior to the availability of the Space Tug. As presently planned, it will be a modification of an existing stage, may or may not be retrievable for reuse, and will be capable of the delivery but not the retrieval of payloads.

INVITATION FOR BIDS (IFB)

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 KSC procurement office completes this milestone.

ITEM

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

K-FACTORS

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

K₁ Engineering correction based on LRU complexity, greater than 1

K₂ Total failure ratio to relevant failure, greater than 1

K₃ Ratio of operating hours to flying hours

K₄ Ratio of demands on supply system to failures

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

LAUNCH PAD

The pad area from which the Space Shuttle will be launched. The stacked Space Shuttle will undergo final prelaunch checkout and countdown at the launch pad.

LAUNCH PROCESSING SYSTEM (LPS)

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

LAUNCH PROCESSING SYSTEM (LPS) SUPPORT AVAILABLE

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

LEVEL OF REPAIR ANALYSIS (LORA)

A process for recommending repair levels of LRUs, SRUs, assemblies, and sub-assemblies 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; Source, Maintenance, and Recoverability (SMR) coding; maintenance planning, and documentation.

LINE REPLACEABLE UNIT (LRU)

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

LOGISTICS ENGINEERING ANALYSES (LEA)

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 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 (MEA)

An analysis of contract end item/LRU/SRU or equivalent items which defines 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:

- a. 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.
- b. 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.
- c. 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 maintenance 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.

MATERIAL SERVICE CENTERS (MSC)

An activity established adjacent to a facility or 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.

Examples:

Measure detailed structure of sun's chromosphere.
Survey mineral resources of North America.

MOBILE LAUNCH PLATFORM (MLP)

The elements of the Space Shuttle will be stacked upon the MLP while in the Vehicle Assembly Building (VAB). After stacking, it will be rolled out to the launch pad.

MODIFICATION COMPLETE

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

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.

NATIONAL STOCK NUMBER (NSN)

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, two digit Country Code and seven digit Federal Item Identification Number in that order. May have a two character Dual Cognizance Code and 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 (i.e., Tug, Spacelab, or Shuttle). This normally means the activity is conducted in a separate facility as well.

OFF-LINE MAINTENANCE

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

ON-CONDITION MAINTENANCE

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

ON-LINE MAINTENANCE

That maintenance function performed at the organizational level.

ON-LINE (STS)

An activity conducted with payload and one or more STS elements. This is broked 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 (OJT)

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

OPERATIONS AND MAINTENANCE DOCUMENTATION (OMD)

OMD includes: engineering drawings and lists, Organizational Operations and Maintenance (OM) manuals including OMIs; Standard Repair manuals, Illustrated Parts Breakdowns (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.

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 (ORD)

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 SP site activation office completes this milestone.

OPERATOR NEED DATE (OND)

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

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, assembly, or test) be provided to that level. This does not prevent some repair from being done at a different level of maintenance for a different task.

OPTIMUM REPAIR LEVEL ANALYSIS (ORLA)

See "Level of Repair Analysis".

ORBITER PROCESSING FACILITY (OPF)

This is a building at KSC with two bays in which the Orbiter undergoes post flight inspection, maintenance, and premate checkout prior to payload installation.

ORGANIC SUPPORT

In-house NASA/DOD assumption of intermediate or depot supply and maintenance activity vis-a-vis contractor/vendor support.

OUTFITTING AWARD

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

OUTFITTING COMPLETE

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

PALLET

An external unpressurized platform for mounting telescopes, antennas, and other instruments and equipment requiring direct space exposure for conducting science and applications activities on Space Shuttle Spacelab missions. The pallet may be composed of segments.

PART

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

PAYLOAD CHANGEOUT ROOM

An environmental controlled room on a movable support structure which includes a manipulator system for transferring a payload vertically between a transport canister and the Orbiter payload bay.

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 mix of requirements.

PRELIMINARY ENGINEERING REPORT (PER) - 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.

PROCURE/FABRICATE COMPLETE

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

PROCUREMENT METHOD CODE (PMC)

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

PROGRAM

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

PROGRAMMING CHECK LIST (PCL)

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

PROVISIONING ACTIVITY

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

PROVISIONING PERFORMANCE SCHEDULE (PPS)

Check List 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 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 (PCM), or Automatic Data Processing (ADP) tapes. PTD shall be furnished by contractors to KSC Provisioning Activities for the identification, selection, and determination of initial requirements and cataloging of support items to be procured through the provisioning process. Supplementary Provisioning Technical Documentation (SPTD) is also considered to be a part of PTD.

QUALITATIVE REQUIREMENTS

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

- Failure Detection
- Performance Degradation Detection
- Built-In Test Equipment (BITE)
- Adjustments
- GSE-Integrated/Automated/Manual
- Self-Test
- Skill Levels
- Special Tools
- Accessibility
- 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; these are organizational, intermediate and depot. A listing of the common types of requirements to be considered are:

- Maintenance Hours/Launch
- Maintenance Hours/Operating Hour
- Mean Time To Repair
- Maximum Repair Time
- Scheduled Replacement Intervals
- Inspection Frequency and Maintenance Hours
- Servicing Frequency and Maintenance Hours

READY TO SUPPORT

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

REORDER POINT

The inventory level, representing procurement lead time and safety level quantitative requirements as on-hand and on-order balances, at which spares 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 for return to use when it becomes unserviceable.

Note:

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

REQUEST FOR PROPOSAL (RFP)

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

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 (SPO), the contractor shall accept the order and within 30 days notify NASA of his acceptance of the schedule or provide a proposed line item delivery schedule for negotiation. The approved schedule will be incorporated into the contract by supplemental agreement.

SCHEDULED MAINTENANCE

Any repetitive maintenance action deemed necessary to insure 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 user's location will be the Site Activation Need Date (SAND) for that location.

SHOP REPLACEABLE UNIT (SRU)

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.

SITE ACTIVATION NEED DATE (SAND)

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

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 laboratory designed for space operations and composed of modules or pallets suitable for accommodating instrumentation for conducting research and application activities on Shuttle Sortie Flights. On a given flight, the Spacelab configuration can be comprised of a module only, a pallet only, or a combination of a module and a pallet.

SPACE TRANSPORTATION SYSTEM (STS)

An integrated system consisting of:

Space Shuttle (Orbiter, External Tank, Solid Rocket Boosters)

Upper Stage for boost to extended orbit (IUS, SSUS, TUG)

Spacelab

Any associated flight hardware and software

SPACE TUG

An upper stage installed for launch, or recovery and landing, in the cargo bay of the Orbiter. 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. Reparable Items).

SPECIAL TOOLS, TEST EQUIPMENT & SUPPORT EQUIPMENT

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

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. (Examples of standard parts and items are nuts, bolts, washers, screws, pins, keys, grommets, rivets, o-rings, clips, fasteners, clamps, fittings, standard electrical and electronic components, etc.)

STATEMENT OF PRIOR SUBMISSION (SPS)

A certification by an offeror/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 (or being) procured.

STS ASSOCIATED PAYLOAD

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

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. (Examples: 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 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:

- Technical identification of items for maintenance support considerations
- Preparation of item identifications for the purpose of assigning National Stock Numbers
- Review for item entry control
- Standardization
- Review for potential interchangeability and substitutability
- Item management coding
- Preparation of stock/issue lists
- 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 SP site activation office completes this milestone.

SUPPORT ITEMS

Items subordinate to, or associated with, an end item (i.e., 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 (SRA)

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.

TRADE STUDIES

Studies conducted to compare alternative parameters, materials, or procedures.

TRAINING REQUIREMENTS ANALYSIS (TRA)

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 servicable condition of a failed subsystem, end item, replacement package or unit, component, or part.

VALIDATION

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

ORIGINAL PAGE IS
OF POOR QUALITY

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 the design activity.

WORK STATION

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

WORK UNIT CODE (WUC)

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

SECTION II ACRONYMS & ABBREVIATIONS

This Section contains acronyms and abbreviations in current usage for the Space Transportation System (STS) and Associated Payloads.

-A-

A	Ampere
	Alpha
	Acceleration
A&A	Advertise & Award
A/A	Air to Air
A/C	Associate Contractor
	Aircraft
A/D	Analog to Digital
A/G	Air to Ground
A/N	Alpha-Numeric
A/P	Airport
A/R	As Required
A/S	Auxiliary Stage
AA	Accelerated Assemblies
	Airplane Avionics
AA/AL	Airplane Avionics/Autoland
	Automatic Approach/Autoland
AADS	Ascent Air Data System
AAE	Abort Advisory Equipment
	Aerospace Auxiliary Equipment
AAFE	Advanced Applications Flight Equipment
AAIR	Advanced Atmospheric Sounder and Imaging Radiometer
AAS	Abort Advisory System
AB	Airborne
ABCR	As-Built Configuration Record
ABE	Airbreathing Engine
ABES	Airbreathing Engine System
ABM	Advanced Bill of Materials
ABPS	Airbreathing Propulsion Subsystem
AC	Alternating Current
ACC	Automatic Control Console
ACCEL	Accelerometer
ACCU	Audio Central Control Unit
ACD	Accuracy Control Document
ACE	Automatic Checkout Equipment
ACES	Acceptance Checkout & Evaluation System
	Acceptance Control Equipment Section
	Automatic Checkout Equipment Sequencer
ACI	Age Controlled Item
ACIL	Automatic Controlled Instrument Landing
ACL	Allowable Container Load

ACN Ascension Island (STDN)
 ACO Acceptance Checkout
 Administrative Contracting Officer
 ACP Audio Control Panel
 Astronaut Control Panel
 ACPM Associate Contractor Program Manager
 ACPO Associate Contractor Projects Office
 ACPS Attitude Control Propulsion Subsystem
 ACR Actual Cost Report
 ACRS Advisory Committee on Reactor Safeguards
 ACS Attitude Control Subsystem
 Automated Control System
 ACT Acquisition, Control of Test (Units)
 ACTA Activate Test Article
 ACTIV Activation
 ACU Avionics Cooling Unit
 AD Administrative Operation & Support Services
 (KSC Directorate)
 ADAP Adaptive Intercommunication Requirement
 ADB Aerodynamic Data Book
 ADC Air Data Computer
 Analog-to-Digital Computer
 ADF Automatic Display Finder
 Automatic Direction Finder
 ADI Attitude Direction Indicator
 ADL Avionics Development Lab (Downey, CA)
 ADP Acceptance Data Package
 Automatic Data Processing
 ADPA Air Data Probe Assemblies
 ADPE Automatic Data Processing Equipment
 ADS Air Data System
 Audio Distribution System
 ADTA Air Data Transducer Assembly
 A&E Architectural and Engineering
 AEC Aft End Cone
 Atomic Energy Commission
 AEDC Arnold Engineering Development Center
 AEM Acoustical Emission Monitoring
 AF Airframe
 Audio Frequency
 Aft Fuselage
 AFAD Armed Forces Acquisition Document
 AFB Air Force Base
 AFC Automatic Frequency Control
 AFCS Automatic Flight Control System
 AFD Aft Flight Deck
 AFEB Award Fee Evaluation Board
 AFEC Award Fee Evaluation Committee
 AFETR Air Force Eastern Test Range
 AFF Acceptance & Ferry Flight
 AFFTC Air Force Flight Test Center (Edwards AFB)
 AFI Automatic Fault Isolation
 AFLC Air Force Logistics Command

AFM Air Force Manual
 AFPD Authorization For Program Development
 AFO Announced Flight Opportunity
 AFR Air Force Regulation
 AFS Air Force Standard
 AFSC Air Force Systems Command
 AFSCF Air Force Satellite Control Facility
 AFSIG Ascent Flight Systems Integration Group
 AFSWC Air Force Special Weapons Center (Holloman AFB)
 AFT Atmospheric Flight Test
 Aerodynamic Flight Test
 AFTA Acoustic Fatigue Test Article
 AG Artificial Gravity
 AGC Automatic Gain Control
 AGE Automatic Ground Equipment
 Aerospace Ground Equipment
 AGL Above Ground Level
 AGO Santiago, Chile (STDN)
 AGOES Advanced Geosynchronous Observation Environment
 Satellite
 AI Action Item
 AID Abbreviated Item Description
 AIDS Airborne Integrated Data System
 AIL Avionics Integration Laboratories
 AIMS Automatic Instrument Landing System
 AIM Automated Information Management
 AIP Avionics Integration Plan
 AIR Action Item Report
 Adaptive Intercommunication Requirement
 AIRME Apollo Initiator Resistance Measuring Equipment
 AIST Agency of Industrial Science and Technology
 AJ Assembly Jig
 A&L Approach and Landing
 AL Airlock
 ALAS Automatic Landing Autopilot Subsystem
 ALC Automatic Light Control
 ALDO Activity Level Dependent Operations
 ALE Airport Lighting Equipment
 ALERT Acute Launch Emergency Reliability Tip
 ALIO Activity Level Independent Operations
 ALS Alternate Landing Site
 Advance Logistics System
 ALSA Astronaut Life Support Equipment
 ALSS Airlock Support Subsystem
 ALT Approach & Landing Test
 Altitude
 ALTR Approach & Landing Test Requirement
 AM Actuator Mechanism
 Ammeter
 Amplitude Modulation
 Administration & Management Operations (KSC Directorate)
 AMA Air Material Area
 AMC Automatic Mixture Control

AMDS	Advanced Missions Docking Subsystem
AMEC	Aft Master Events Controller
AMF	Abort Motor Facility
AMI	Air Speed Mach Indicator
	Alpha Mach Indicator
AMOOS	Advanced Maneuvering Orbit-To-Orbit Shuttle
AMPR	Aeronautical Manufacturers Planning Report
	Aeronautical Manufacturers Progress Report
AMPS	Atmospheric Magnetospheric & Plasmas in Space
AMR	Atlantic Missile Range
AMS	Acoustic Measurement System
	Amplifier Subsystem
AMST	Advanced Medium STOL Transport
AMTAS	Automatic Modal Tuning & Analysis System
AMTD	Automatic Magnetic Tape Dissemination
AMTF	Acoustic Model Test Facility
AN	Army/Navy
ANA	Air Force-Navy Aeronautical Bulletin
ANAL	Analysis
AND	Air Force-Navy Aeronautical Design Standard
ANL	Analog
ANSI	American National Standards Institute
AO	Analog Output
AOA	Abort-Once-Around
	Angle Of Attack
AOCRD	Acceptance & Operational Checkout Requirements Document
AOPM	Airline Operations Planning Model
AOS	Acquisition Of Signal
AOT	Avionics Overall Test
AP	Procurement Supply & Transportation (KSC Directorate)
APA	Abort Programmer Assembly
APC	Advanced Propulsion Comparison Study
APIC	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	Approach
APPF	Automated Payload Processing Facility
APPLE	Advanced Propulsion Payload Effects
APR	Advanced Parts Release
APS	Aft Propulsion System (Subsystem)
	Airbreathing Propulsion System
	Attitude Propulsion Subsystem
APSS	Atmospheric Pressure Supply Subsystem
APT	Astronaut Preference Test
APU	Auxiliary Power Unit
AQL	Acceptance Quality Level
A&RC	Application and Resource Control
AR	Acceptance Review
	Acceptance Readiness

ARAP Astronaut Rescue Air Pack
 ARC Ames Research Center (Moffett Field, CA)
 ARCS Aft Reaction Control Subsystem
 ARFDS Automatic Reentry Flight Dynamics Simulator
 ARINC Aircraft Radio, Incorporated
 ARN Additional Reference Number
 ARPESH Accurate & Reliable Prototype Earth Sensor Head
 ARPF Army Pulse Radiation Facility
 ARS Atmospheric Revitalization System
 Attitude Reference System
 Air Rescue Science
 ASA Aerosurface Servo Amplifier
 American Standards Association
 ASAC Aerodynamic Surface Assembly & Checkout
 ASAP As Soon As Possible
 Aerospace Safety Advisory Panel
 ASAS Aerodynamic Stability Augmentation Subsystem
 ASC Aero Surface Control
 ASCII American Standard Code for Information Interchange
 ASCP Attitude Set Control Panel
 ASCS Attitude Stabilization & Control System
 Atmospheric Storage & Control Section
 ASDTIC Analog Signal to Discrete Time Interval Converter
 ASE Advanced Space Engine
 Automatic Support Equipment
 ASF Atmospheric Science Facility
 ASG Avionics Subsystem Group
 ASI Airspeed Indicator
 Augmented System Ignition
 Amended Shipping Instructions
 Augmented Spark Igniter
 ASK Amplitude-Shift-Keying
 ASKA Automatic Systems for Kinematic Analysis
 ASLU Antenna Select Logic Unit
 ASME American Society of Mechanical Engineers
 ASP Airborne Science Program
 ASPP Atmospheric & Space Plasma Physics
 ASQC American Society for Quality Control
 ASR Avionics System Review
 Air/Sea Rescue
 ASRM Abort Solid Rocket Motor
 ASS Airlock Support Subsystem
 ASSESS Airborne Science Shuttle Experiments System
 Simulation
 ASSY Assembly
 AST Astronomy
 ASTF Aeropropulsion System Test Facility
 ASTIA Armed Services Technical Information Agency
 ASTM American Society for Testing Materials
 ATA Avionics Test Article
 Air Transport Association
 Abort Time Assembly
 ATC Air Traffic Control

ATCS Active Thermal Control Subsystem
 ATDB Aerothermodynamic Data Book
 ATE Automatic Test Equipment
 ATF Auditorium & Training Facility
 ATIS Automatic Terminal Information System
 ATL Advanced Technology Laboratory
 ATLAS Abbreviated Test Language for Avionics Systems
 ATO Abort-To-Orbit
 ATOLL Acceptance, Test Or Launch Language
 ATP Authority To Proceed
 Acceptance Test Procedure
 ATR Air Transportation Rack
 Air Transport Radio
 Air Transport Rating
 ATS Acceptance Test Specification
 Automatic Terminal System
 Applications Technology Satellite
 Administrative Terminal System
 Asynchronous Task Storage
 ATT Acceptance Thermal Testing
 ATU Audio Terminal Unit
 AU Accounting Unit
 AUB Aft Utility Bridge
 AUTODIN Automatic Digital Network
 AUTOLAND Automatic Landing
 AUX Auxiliary
 AV Avionics
 Average Value
 AVE Atmospheric Variability Experiment
 AVO Avoid Verbal Orders
 AVVI Altimeter Vertical Velocity Indicator
 AVT Acceptance Vibration Testing
 AW Assembly Workstand
 AWCS Agency-Wide Coding Structure
 AWG American Wire Gage
 AWL Automated Wire List
 AWS American Welding Society
 AZ Azimuth

-B-

B Bit
 B/C Bench Check
 B/L Baseline
 B/W Black and White
 BA Bank Angle
 BAC Buffer Access Card
 Booster Assembly Contractor
 Boeing Aircraft Company

BAI	Barometric Altitude Indicator
BARS	Baseline Accounting and Reporting System
BB	Breadboard
BBC	Before Business Clearance
BC	Battery Charger
BCCT	Break Control Command Transducers
BCE	Bus Control Element
BCP	Benchmark Control Point
	Base Condemnation Percent
BCRD	Basic Consolidated Requirements Document
BCU	Bus Control Unit
BDA	Bermuda (STDN)
BDD	Baseline Definition Document
BECO	Booster Engine Cutoff
BER	Bit Error Rate
BESS	Biomedical Experiment Scientific Satellite
BEST	Booster Exhaust Study Test
BFCS	Backup Flight Control System
BFRP	Boron Fiber Reinforced Plastics
BITE	Built-In Test Equipment
BIU	Buffer Interface Unit
BLOW	Booster Lift-Off Weight
BMAP	Buffer Map
BME	Bench Maintenance Equipment
BMS	Background Measurement Satellite
BOD	Beneficial Occupancy Date
BOE	Break Of Entry
BOF	Beginning Of File
BOI	Break Of Integrity
BOM	Bill Of Material
	Beginning Of Month
BOPACE	Boeing Plastic Analysis Capability for Engines
BOT	Beginning Of Tape
BOW	Bill Of Work
B&P	Budgetary and Planning
BP	Boilerplate
BPD	Baseline Program Document
BPI	Bits Per Inch
BPS	Bits Per Second
BRAVO	Business Risk And Value of Operation in Space
BRM	Bio Research Module
BRRS	Banana River Repeater Station
B/SC	Brake Skid Control
BSI	Basic Shipping Instructions
BSM	Booster Separation Motors
BSRM	Booster Solid Rocket Motor
BTC	Buss Tie Contractor
Btu	British Thermal Unit
BU	Backup
BUOU	Backup Optical Unit
BUR	Backup Rate
BW	Bridgewire

C Candle
 Capacitance
 Centigrade
 Cycle
 Celcius
 Hundred
 Complete
C-C Carbon-Carbon
C-To-C Computer-To-Computer
C/D Countdown
C/F Center Frequency
C/O Checkout
 Cutoff
 Changeout
C/S Counts per Second
CA Cone Angle
 Cost Account
 Corrective Action
CAB Civil Aeronautics Board
 Cost Audit Board
CACON Cargo Container
CAD Computer Aided Design
CADE Controller/Attitude-Direct Electronics
CADS Command And Data Simulator
CADSI Communications And Data Systems Integration
CADU Control & Display Unit
CAL Cornell Aeronautical Laboratory
CAM Carrier Aircraft Modification
 Computer Aided Manufacturing
 Content Addressable Memory
CAN Certification Analysis Network
CAP Contractor Acquired Property
 Cost Account Package
CAR Corrective Action Request
 Certification Approval Request
CARID Customer Acceptance Review Item Disposition
CARR Customer Acceptance Readiness Review
CAS Command Augmentation System
CASO Cancellation Addendum Sales Order
CAU Customer Acquisition Unit
 Command Acquisition Unit
CB Circuit Breaker
 Center of Buoyancy
CBIL Common & Bulk Items List
CBR California Bearing Ratio
CBX C-Band Transponder
CCA Contract Change Authorization
CCAFS Cape Canaveral Air Force Station
CCATS Command, Communication & Telemetry Subsystem

CCB	Configuration Control Board
CCBD	Configuration Control Board Directive
CCC	Complex Control Center
	Controller Checkout Console
	Central Computer Complex
CCD	Charge-Coupled Device
	Checkout Command Decoder
CCF	Converter Compressor Facility
CCFF	Cape Canaveral Forecast Facility
CCL	Commonality Candidate List
CCM	Controlled Carrier Modulation
	Crew/Cargo Module
CCME	Contract Change Mass Estimate
CCMS	Command Control & Monitor System
	Checkout Control & Monitor Subsystem
CCN	Contract Change Negotiation
	Contract Change Notice
CCOH	Corrosive Contaminants, Oxygen & Humidity
CCP	Configuration Control Panel
	Configuration Change Point
	Contract Change Proposal
	Cost Control Program
CCR	Contractor Change Request
CCRA	Cape Canaveral Reference Atmosphere
CCS	Central Control Section
	Command and Communication System
	Complex Control Set
	Computer Core Segment
CCTV	Closed Circuit Television
CCV	Chamber Coolant Valve
CCW	Counterclockwise
C&D	Control & Display
C&DS	Command & Data Simulator
CD	Candella (luminous intensity)
CDA	Command & Data Acquisition
CDBFR	Common Data Buffer
CDC	Countdown Clock
CDDT	Countdown Demonstration Test
CDF	Cool-Down Facility
	Circuit Design Fabrication
	Confined Detonating Fuse
	Central Data Facility
CDF&TDS	Circuit Design, Fabrication & Test Data Systems
CDI	Course Deviation Indicator
CDMS	Command Data Management System
CDPIS	Command Data Processing & Instrumentation System
CDQR	Critical Design and Qualification Review
CDR	Critical Design Review
	Commander
CDRR	Contract Documentation Requirements Records
CDS	Control Data System
	Central Data Subsystem
CDSC	Communications Distributing & Switching Center

CDT Countdown Time
 Central Daylight Time
 Command Descriptor Table
 CE Civil Engineering
 Change Evaluation
 Current Expendable
 CEC Control Encoder Coupler
 CCEP Compatibility Engineering Change Proposal
 CEI Contract End Item
 CEIAC Coastal Engineering Information Analysis Center
 CEQ Council on Environmental Quality
 CER Cost Estimating Relationship
 CFE Contractor Furnished Equipment
 CFI Card Format Identifier
 CFM Cubic Feet per Minute
 Customer Furnished Material
 CFRP Carbon Fiber Reinforced Plastics
 CFSTI Clearinghouse For Scientific & Technical Information
 CFY Company Fiscal Year
 CG Center of Gravity
 CGAU Cabin Gas Analysis Unit
 CGC Command Guidance Computer
 CGP Central Grounding Point
 CH Channel
 CHR Cooper-Harper Rating
 CI Configuration Inspection
 Configuration Item
 CIAP Climatic Impact Assessment Program
 CIB Change Impact Board
 Change Implementation Board
 CIC Control and Information Center
 CID Computer Interface Device
 CIDL Configuration Item Data List
 CIDR Critical Intermediate Design Review
 CIF Central Instrumentation Facility
 CIG Cable Integrity Group
 CIL Critical Items List
 CIS Central Integration Site
 Change Impact Summary
 CITE Cargo Integration Test Equipment
 CIU Computer Interface Unit
 CL Closed Loop
 Centerline
 CLC Change Letter Control
 CLIP Combined Laser Instrumentation Package
 CLM Care Logic Module
 CLMC Central Logistics Management Center
 CLS Contingency Landing Site
 C&M Control and Monitoring
 CM Configuration Management
 Consumables Management
 Crew Module
 CMA Configuration Management Accounting

CMAO	Contract Management Assistance Officer
CMAT	Compatible Materials List
CMD	Command
CMG	Control Moment Gyro
CMM	Condition Monitored Maintenance
CMO	Configuration Management Office
CMOS	Complimentary Metal Oxide Silicon
CMR	Center Materials Representative
CMRB	Contractor Material Review Board
CM&S	Communications Maintenance and Storage
CMTS	Computerized Maintenance Test System
CN	Change Notice
CNRL	Communication & Navigation Research Laboratory
CNWDI	Critical Nuclear Weapons Design Information
Coff	Cost of Facilities
CO	Change Order
	Contracting Officer
CO2	Carbon Dioxide
COAS	Coarse Optical Alignment Sight
	Crew Optical Alignment Sight
COB	Communications Office Building
COC	Close-Open-Close
COFI	Checkout & Fault Isolation (On Board)
COFR	Certificate of Flight Readiness
COFW	Certificate of Flight Worthiness
COL	Checkout Language
COMAS	Combined Orbital Maneuvering & Abort System
COMM	Communications
COMPEN	Compensator
COMPOOL	Common Data Pool
COMPR	Compressor
COMR&DSAT	Communication Research & Development Satellite
COMSEC	Communications Security
CONN	Connect
CONT	Control
CONUS	Continental United States
COR	Contracting Officer Representative
CORE	Common Operational Research Equipment
COS	Console Operating System
COSATI	Committee On Scientific & Technical Information
COSI	Closeout System Installation
CP	Circular Pitch
	Center of Pressure
	Console Processor
	Control Panel
CPA	Critical Path Analysis
	Contingency Planning Aid
CPAF	Cost Plus Award Fee
CPC	Central Planning Center
	Computer Program Component
CPCR	Computer Program Change Request
CPD	Crew Procedures Division
CPDS	Computer Program Design (or Development) Specification

CPE	Chief Program Engineer
CPEI	Computer Program End Item
CPF	Cargo Processing Facility
	Cost Per Flight
CPFF	Cost Plus Fixed Fee
CPG	Change Planning Group
CPIF	Cost Plus Incentive Fee
CPM	Computer Program Module
	Critical Path Method
CPMP	Crew Procedures Management Plan
CPR	Critical Problem Report
CPS	Cycles Per Second
CPSE	Common Payload Support Equipment
CPSS	Critical Phase System Software
CPT	Cargo Processing Technician
CPU	Central Processing Unit
CQDR	Critical Qualification Design Review
CR	Change Request
CRAS	Cost Reduction Alternative Study
CRB	Change Review Board
CRC	Cost Reduction Curve
	Contractor Recommended Code
CRES	Corrosion Resistant Steel
CRG	Correspondence Review Group
CRIS	Calibration Recall & Information System
CRN	Contract Revision Number
CRPL	Cosmic Ray Physics Laboratory
CRR	Critical Requirements Review
	Computer Run Report
CRSI	Ceramic Reusable Surface Insulation
CRT	Cathode-Ray Tube
CRYO	Cryogenic
C/SCSC	Cost/Schedule Control Systems Criteria
CS	Change Status
	Crew Station
	Core Segment
CSA	Cyclic Strain Attenuator
CSAM	Crinkled Single Aluminized Mylar
CSC	Cosecant Computing Amplifier
	Conical Shaped Charge
CSCSAT	Commercial Synchronous Communication Satellite
CDS	Chemical Systems Division
CSDD	Control Systems Development Division
CSDL	Charles Stark Draper Laboratory (MIT)
CSE	Common Support Equipment
CSF	Cost Sensitivity Factor
CSI	Control Servo Input
CSIR	Computer Systems Integration Review
CSIU	Core Segment Interface Unit
CSM	Common Support Module
CSPU	Core Segment Processing Unit

CSR	Crew Station Review
	Certification Status Report
	Check Signal Return
CSRFP	Computers & Software Review Panel
CSS	Core Segment Simulator
	Computer Subsystem
	Control Stick Steering
CST	Central Standard Time
	Crew Station Trainer
	Contract Supplemental Tooling
C&T	Communication and Tracking
CT	Crawler Transporter
CTA	Controlled Thrust Assembly
CTC	Chief Test Conductor
	Camera, Timing & Control
CTL	Control
	Canoga Test Laboratory
CTM	Crystalline Transitional Material
	Contract Technical Manager
CTN	Certification Test Network
CTP	Communications Timing Procedure
CTR	Contract Technical Representative
CTS	Communications & Tracking System
	Computer Test Set
CTU	Central Timing Unit
CUB	Commonality Usage Board
CUC	Computer Usage Control
CUDS	Cumulative Data Statistics
CUE	Common Usage Equipment
CUIL	Common Usage Item List
CUM	Cumulative
CUP	Commonality Usage Proposal
CUT	Coordinated Universal Time
CV	Coefficient of Variation
CVAS	Configuration Verification Accounting System
CVT	Concept Verification Test
C&W	Caution and Warning
CW	Continuous Wave
	Clockwise
CWA	Clean Work Area
CWG	Constant Wear Garment
CY	Calendar Year

-D-

D	Delta
	Deliver
D/A	Digital-to-Analog
D/L	Downlink
DA	Double Amplitude

DABS Discrete Address Beacon System
 DAC Digital-to-Analytical Conversion
 Data Acquisition & Control
 DACBU Data Acquisition & Control Buffer Unit
 DACS Digital Acquisition & Control System
 DADS Dual Air Density Satellite
 DAIS Digital Avionics Information System
 DAL Data Accession List
 Data Aided Loop
 DAM Double Aluminized Mylar
 DAP Digital Auto Pilot
 DAR Data Aided Receiver
 Digital Autopilot Requirements
 DARTS Digital Automated Radar Tracking System
 DAS Data Analysis Station
 DASA Dual Aerospace Servo Amplifier
 DAU Data Acquisition Unit
 Db Decibel
 DB Dry Bulb
 Design Baseline
 Distribution Box
 DBC Data Bus Coupler
 DBFN Data Bus File Number
 DBIU Data Bus Interface Unit
 DBRN Data Bank Release Notice
 DBUR Data Bank Update Request
 DBW Data Bus Wire
 D&C Displays and Controls
 DC Direct Current
 DCA Design Change Authorization
 DCAA Defense Contract Audit Agency
 DCAR Design Corrective Action Report
 DCAS Defense Contract Administration Services
 DCC Document Control Center
 DCKNG Docking
 DCN Document Change Notice
 Design Change Notice
 Drawing Change Notice
 DCOP Displays, Controls & Operation Procedures
 DCP Data Collection Platform
 Development Cost Plan
 Depot Condemnation Percent
 DEU Control Program End Item
 DCPEI Design Certification Review
 DCR Document Change Record
 Design Concern Report
 D&CS Display & Control Subsystem
 DCS Design Criteria Specification
 Data Control System
 Digital Command System (Subsystem)
 Data Communication System
 DCSP Digital Control Signal Processor
 DCU Display & Control Unit

DCV	DC Volts
DD	Directives Documentation
	Associate Directorate for Design (KSC)
DDA	Digital Differential Analyzer
DDAS	Digital Data Acquisition System
DD&CS	Dedicated Display & Control Subsystem
DDI	Discrete Digital Input
DDP	Digital Data Processing
	Design Development Plan
DDS	Documentation Distribution System
DDT&E	Design, Development Test & Evaluation
DDTF	Dynamic Docking Test Facility
DDTS	Dynamic Docking Test System
DDU	Display Driver Unit
	Data Display Unit
DE	Design Engineering
DECL	Direct Energy Conversion Laboratory (JSC)
DECOM	Decommunicator
DECR	Decrease
DECU	Data Exchange Control Unit
DEE	Digital Events Evaluator
DEF	Definition
DEG	Degree
DEI	Design Engineering Identification
DEIS	Design Engineering Inspection Simulation
	Design Evaluation Inspection Simulator
DEL	Delivery
DEMOM	Demodulate
DEMUX	Demultiplexer
DER	Drawing Error Report
DES	Design
	Data Exchange System
DESAT	Desaturated
DESPOT	Design Performance Optimization
DET	Digital Event Timer
	Detail
DEU	Display Electronics Unit
DEV	Develop, Development
DEW	Distant Early Warning
DF	Development Flight
	Direction Finding
	Associate Directorate for Facilities & Systems
	Management (KSC)
DFCS	Digital Flight Control Software
	Digital Flight Control System
DFI	Development Flight Instrumentation
DFRC	Dryden Flight Research Center
DG	Display Generator
DIDS	Defense Integrated Data System
DIL	Deliverable Items List
DIM	Design Interface Meeting
DIPEC	Defense Industrial Plant Equipment Center
DISC	Disconnect

DIST Distribution
 DIU Digital Interface Unit
 DL Associate Directorate for LPS Development (KSC)
 DLAT Destructive Lot Acceptance Testing
 DLSC Defense Logistics Service Center
 DLTR Data Link Transmission Repeater
 Data Link Terminal Repeater
 DMA Direct Memory Access
 DMC Direct Maintenance Cost
 DMCF Deservicing, Maintenance & Checkout Facility
 DME Distance Measuring Equipment
 DMS Data Management System
 Docking Mechanism Subsystem
 DMSS Data Management System Simulator (CVT)
 DN Discrepancy Notice
 DNA Does Not Apply
 DNP Dynamic Nuclear Polarization
 DOC Document
 Documentation
 DOD Department Of Defense
 DOF Direction Of Flight
 Degree-Of-Freedom
 DOMSAT Domestic Communications Satellite
 DOS Disk Operating System
 DOT Department Of Transportation
 DOT/CIAP Department Of Transportation/Climatic Impact
 Assessment Program
 D&P Drain and Purge
 DP Delayed Procurement
 Design Proof
 Double Pole
 Development Phase
 DPI Detail Program Interrelationships
 DPR Definition Phase Review
 DP&S Data Processing & Software
 DPS Data Processing System (Subsystem)
 Data Processing & Software
 DPT Design Proof Test
 DR Design Review
 Discrepancy Report
 Dispatch Reliability
 Disposition Record
 DRB Design Requirements Baseline
 Design Review Board
 DRD Data Requirements Description
 DRI Data Rate Indicator
 DRL Data Requirements List
 DRM Drawing Requirements Manual
 Design Reference Mission
 DRO Document Release Order
 DRR Design Requirements Review
 DRS Data Relay Station
 Digital Range Safety

DRSS Discrepancy Report Squawk Sheet
 DS Data Storage
 DSA Defense Supply Agency
 DSIF Deep Space Instrumentation Facility
 DSN Deep Space Network
 DSPM Designated Subsystems Project Manager
 DSS Deep Space Station
 Department Summary Schedule
 Documentation Support Services
 DST Dimensional Special Tooling
 DT Drop Tank
 DTA Development Test Article
 DTC Design To Cost
 DTCS Digital Test Command System
 DTCW Data Transfer Command Word
 DTI Development Test Instrumentation
 DTMO Design, Test & Mission Operations
 Development, Test & Mission Operations
 DTMS Digital Test Measurement System
 DTRD Development Test Requirements Document
 DTS Data Transmission System
 Data Transfer System
 DU Display Unit
 DUM Dummy
 DUPLX (R) Duplex(er)
 DVM Digital Voltmeter
 DVS Design Verification Specification
 DWG Drawing

-E-

E Exempt (From Traceability)
 Elevation Angle
 E-E End-to-End
 E/C Encoder Coupler
 E/O-IMS Engineering/Operations-Information Management System
 EAC Estimate At Completion
 Energy Absorbing Capacity
 EAD Electrically Alterable Device
 EAFB Edwards Air Force Base
 EAM Electrical Accounting Machine
 EAR Engineering Analysis Report
 EAS Equivalent Air Speed
 EAT Environmental Acceptance Test
 EB Electronic Beam
 EBW Exploding Bridge Wire
 EC Element Contractor
 Essentiality Code
 ECB Events Control Buffer

ECCB Engineering Change Control Board
 ECI Earth Centered Inertia
 ECLS Environmental Control and Life Support
 ECLSS Environmental Control & Life Support Subsystem
 ECO Engine Cutoff
 Engine Combustion
 ECP Engineering Change Proposal
 ECR Engineering Change Request
 ECS Environmental Control System
 Engine Control System
 ECU Environmental Control Unit
 ED Edge Distance
 Engineering Directive
 EDA Electronic Display Assembly
 EDB Environmental Data Book
 EDC Engineering Design Change
 EDCP Engineering Design Change Proposal
 EDDR Electron Dipole-Dipole Reservoir
 EDF Engineering Data File
 EDLN Engineering Development Logic Network
 EDP Electronic Data Processing
 EDR Engineering Design Review
 EDS Emergency Detection System
 EDT Eastern Daylight Time
 EED Electro Explosive Device
 EEE Electronic, Electrical, Electromechanical
 EFFGRO Efficient Growth (Computer Program)
 EETB Electronic Electrical Termination Building
 EFA Experiment Flight Applications
 EGA Evolved Gas Analysis
 EGT Exhaust Gas Temperature
 EHF Extremely High Frequency
 EHOT External Hydrogen/Oxygen Tank
 EHP Electrical Horsepower
 EI Environmental Impact
 End Item
 Entry Interface
 EIA Electrical Industries Association
 EIASN End Item Assembly Sequence Number
 EIC Experimental Intercom
 EIDP End Item Data Package
 EIFA Element Interface Functional Analysis
 EIRP Effective Isotropic Radiated Power
 EIS End Item Specification
 Electrical Integration System
 EIU Engine Interface Unit
 EIVT Electrical & Instrumentation Verification Tests
 Electronic Installation Verification Test
 Electrical Interface Verification Test
 EKG Electrocardiograph (Instrument)
 Electrocardiogram (Record)
 EL Elastic Limit
 ELACS Extended Life Attitude Control System

ELMS	Elastic Loop Mobility System
ELS	Earth Landing System (Subsystem)
ELSC	Earth Landing Sequence Controller
ELT	Emergency Locator Transmitter
EM	Engineering Module
	Exception Monitor
EMA	Electromagnetic Analysis
EMC	Electromagnetic Compatibility
EMEC	Electromagnetic Effects Capability
EMF	Electromotive Force
EMG	Surface Electromyograms
EMI	Electromagnetic Interference
EMN	Engineering Management Network
EMP	Equipment Mounting Plate
EMR	Engine Mix Ratio
EMS	Engineering Master Schedule
	Entry Monitor Subsystem
EMU	Extravehicular Mobility Unit
	Extended Memory Unit
ENC	Encode
ENDF	Evaluated Neutron Data File
ENG	Engine
ENGR	Engineer
ENGRG	Engineering
ENVIR	Environmental
EO	Engineering Order
	Earth Orbit
EOC	End of Contract
	Engine Order Capability
EOD	Estimated On Dock
	Explosive Ordnance Disposal
EOF	End Of File
EOHT	External Oxygen & Hydrogen Tanks
EOL	End Of Line
EOM	Engineering Operations Manual
	Equations Of Motions
EOP	Emergency Oxygen Pack
	Earth & Ocean Physics
EOR	Earth Orbit Rendezvous
EOS	Emergency Oxygen System
	Earth Orbit Shuttle
	Earth Observation Satellite
EOT	End Of Tape
EPA	Environmental Protection Agency
EPC	Error Protection Code
	External Power Contractor
EPDC	Electrical Power Distribution & Control
EPG	Electrical Power Generator
EPL	Emergency Power Level (Now FPL)
EPMS	Engineering Performance Management System
EPO	Element Project Office
EPRN	Emergency Program Release Notice

EPS Electrical Power Subsystem
 Experimental Power Supply
 EPT Emergency Procedure Trainer
 Ethylene Propylene Terpolymer
 EPTU Events Per Time Unit
 EQ Equivalent
 ER Explanation Report
 ERA Electrical Replaceable Assembly
 ERAP Earth Resources Aircraft Program
 ERB Engineering Review Board
 ERO Engineering Release Operations
 ERP Effective Radiation Power
 Effected Radiative Power
 Eye Reference Point
 ERRC Expendability/Recoverability/Repair Capability
 ERS Engineering Release System
 ERSI Elastomeric Reusable Surface Insulation
 ERTS Earth Resources Technology Satellite
 ESA Explosive Safe Area
 European Space Agency
 ESCA Electron Spectroscopy for Chemical Analysis
 ESDAC European Space Data Center (Darmstadt, Germany)
 ESE Electrical Support Equipment
 Electronic Support Equipment
 ESOC European Space Operations Center
 ESOV Engineering Statement Of Work
 ESP Experiment Sensing Platform
 ESPP Experiment Segment & Pallet Simulator
 ESR Engineering Support Request
 ESRIN European Space Research Institute
 ESRO European Space Research Organization
 ESS Experiment Subsystem Simulator
 ESSA Environmental Sciences Services Administration
 EST Estimate
 Eastern Standard Time
 ESTEC European Space Research & Technology Center
 ESTL Electronic Systems Test Laboratory
 ESV Emergency Shutoff Valve
 ET External Tank
 Edge Thickness
 Event Timer
 ETA Estimated Time of Arrival
 ETC Estimate To Completion
 ETCO Equipment Transfer/Change Order
 ETI Elapsed Time Indicator
 ETLOW External Tank Lift-Off Weight
 ETP Equipment Test Plan
 ETR Eastern Test Range
 ETROD Eastern Test Range Operations Directive
 ETS Electrical Test Set
 ETSS External Tank Separation Subsystem
 EU Electronic Unit
 Experimental Unit

EVA	Extravehicular Activity
	Earned Value Analysis
EVCON	Events Control (Subsystem)
EVF	Equipment Visibility File
EVM	Earth Viewing Module
EVMU	Extra Vehicular Mobility Unit
EVS	Equipment Visibility System
EVSS	Extravehicular Space Suit
EWA	Estimated Warehouse Arrival
EWE	Emergency Window Escape
EWR	Engineering Work Request
EXP	Experiment
EXTER	External

-F-

F	Farrad (SI Unit of Capacitance)
	Fahrenheit
F/A	Failure Analysis
F/E	Full Empty
F/O	Fuel/Oxidizer
FA	Final Assembly
	Failure Analysis
	Fully Automatic
FAA	Federal Aviation Administration
FAB	Fabricate
FAC	Facility
FACI	First Article Configuration Inspection
FACO	Final Assembly Checkout
	Factory Assembly and Checkout
FAP	First Aerodynamic Flight
FAIR	Fabrication, Assembly & Inspection Record
FAL	First Approach & Landing (Test)
FAR	Final Acceptance Review
	Federal Aviation Regulation
	Failure Analysis Report
FAT	Flight Attitude Table
FAX	Facsimile Transmission
FBC	Fluidized-Bed Combustion
FBCS	Fixed Base Crew Station (SMS)
FBS	Firefighters Breathing System
FBV	Fuel Bleed Valve
	Field Base Visit
FC	Fit Check
	Flight Control
	Flight Computer
	Fuel Cell
FCA	Frequency Control Analysis
FCAP	Flight Control Applications Program

FCC Flat Conductor Cable
 FCCP Firm Contract Cost Proposal
 FCE Flight Crew Equipment
 FCEI Flight Control Equipment
 FCF Facility Contractor End Item
 FCF First Captive Flight
 FCHL Flight Control Hydraulics Laboratory
 FCL Freon Coolant Loop
 FCO Functional Checkout
 FCOS Flight Computer Operating System
 Flight Control Operating System
 FCP Fuel Cell Power Plant
 Firm Cost Proposal
 Failure Correction Panel
 FCPS Fuel Cell Power Subsystem
 FCR Final Configuration Review
 FCRT Flight Display CRT
 FCS Flight Control Subsystem
 Flight Crew System
 FCSM Flight Combustion Stability Monitor
 FCT Flight Crew Trainer
 FCTB Flight Crew Training Building
 FCW Format Control Words
 FD Flight Director
 Function Designator
 FDA Fault Detection & Annunciation
 FDAI Flight Director Attitude Indicator
 FDB Fahrenheit Dry Bulb
 FDF Flight Data File
 FDI Fault Detection & Isolation
 FDIIR Fault Detection, Isolation, Identification &
 Recompensation
 FDM Frequency Data Multiplexer
 Frequency Division Multiplexing
 FDO Fee Determination Official
 FDS Fluid Distribution System
 FDSC Flight Dynamics Situation Complex
 FDX Full Duplex
 F&E Facility & Environment
 FEA Failure Effects Analysis
 FEAT Final Engineering Acceptance Test
 FEC Field Engineering Change
 FED Flight Events Demonstration
 FEID Flight Equipment Interface Device
 Functional Engineering Interface Device
 FEM Finite Element Method
 FEMCPL Facilities and Environmental Measurement
 Components Parts List
 FEP Front End Processor
 Floral Ethyl Propane
 FERD Facility & Equipment Requirements Document
 FESL Failure Effects Summary List
 FF Flip Flop

FFBD Functional Flow Block Diagram
 FFC Final Flight Certification
 FFD Functional Flow Diagram
 FFM Free-Flying (Experiment) Module
 FFP Firmed Fixed Price
 FFTO Free Flying Teleoperator
 FHF First Horizontal Flight
 FHP Fuel High Pressure
 FIAR Failure Investigation Action Report
 FIFO First In-First Out (High Speed Data Buffers)
 FIIG Federal Item Identification Guide
 FIS Facility Interface Sheets
 FIT Fault Isolation Test
 FKB Flight Display Keyboard
 FL Flowline
 Feed Lines
 FLAPS Flight Application Software
 FLC Federal Library Committee
 FLSC Flexible Linear Shape Charge
 FLT Flight
 FM Frequency Modulation
 Flight Model
 FMEA Failure Modes & Effects Analysis
 FMEC Forward Master Events Controller
 FMECA Failure Mode, Effects and Criticality Analysis
 FML Final Materials List
 FMOF First Manned Orbital Flight
 FMR Field Modification Request
 FMS Food Management Subsystem
 FMSP Frequency Modulation Signal Processor
 FMX FM Transmitter
 FND Facility Need Date
 FO/FS Fail-Operational/Fail-Safe
 FOB Free On Board
 Flight Operations Building
 FOD Flight Operations Directorate (JSC)
 FOF First Orbital Flight
 FOMR Flight Operations Management Room
 FOP Follow On Production
 FOPG Flight Operations Planning Group
 FOPP Follow On Parts Production
 FORTRAN Formula Translation
 FOSDIC Film Optical Sensing Device for Input to Computers
 FOV Field Of Vision
 Field of View
 First Orbital Vehicle
 FP Fuel Pressure
 Freezing Point
 Functional Path
 FPB Fuel Preburner
 FPBOV Fuel Preburner & Oxidizer Valve
 FPE Functional Program Element
 PPIF Fixed Price Incentive Fee

FPL	Full Power Load
FPM	Feet Per Minute
FPR	Flight Performance Reserve
FPS	Feet Per Second
FQR	Flight Qualification Recorder
FR	Firing Room
FRB	Failure Review Board
FRC	Flight Research Center (now DFRC)
FRCS	Forward Reaction Control Subsystem
FREQ	Frequency
FRF	Flight Readiness Firing
FRR	Flight Readiness Review
FRRID	Flight Readiness Review Item Disposition
FRT	Flight Readiness Test
FS	Fail-Safe
	Federal Specification
FSAA	Flight Simulator for Advanced Aircraft
FSC	Federal Stock Classification
FSCM	Federal Supply Code for Manufacturers
FSI	Final Systems Installation
FSIM	Functional Simulator
FSK	Frequency Shift Keyed
FSLT	First Sea Level Test
FSN	Federal Stock Number
FSS	Flight Systems Simulator
FSSR	Functional Subsystem Software Requirements
FSTE	Factory Special Test Equipment
FSU	Freon Servicing Unit
FT	Flight Test
FTA	Fatigue Test Article
	Fault Tree Analysis
FTC	Flight Test Conductor
FTE	Factory Test Equipment
	Forced Test End
FTIS	Flight Test Instrumentation System
FTOH	Flight Team Operations Handbook
FTP	Functional Test Program
	Function Test Progress
FTR	Flight Test Requirement
FTRD	Flight Test Requirements Document
FUB	Forward Utility Bridge
FUNCT	Functional
FUO	Follow-up Output
FUS	Fuselage
FV	Front View
FVF	First Vertical Flight
FWB	Fahrenheit Wet Bulb
FWD	Forward
FWW	Food, Water & Waste
FWWM	Food, Water & Waste Management
FWWMS	Food, Water & Waste Management Subsystem
PY	Fiscal Year

G Gravity
G-A Ground-to-Air
G-G Ground-to-Ground
G&A General & Administrative
GA Gyro Assembly
GAC Grumman Aerospace Corporation
GAIN Graphic Aids for Investigating Networks
GAM Gamma
GAO General Accounting Office
GAP GOAL Automatic Procedure
GAPL Group Assembly Parts List
GATT Gate Assisted Turnoff Thyristor
GBI Grand Bahama Island
GBL Government Bill of Lading
G&C Guidance & Control
GC Gigacycles (1,000 Megacycles)
GCA Ground Controlled Approach
GCDC Ground Checkout Display & Control System
GCHX Ground Cooling Heat Exchanger
GCI Ground Controlled Interception
GCN Ground Control Network
GCO Ground Checkout
GCOS Ground Computer Operating System
GCS Guidance Cutoff Signal
GCTS Ground Communication Tracking System
GCU Gyro Coupling Unit
Generator Control Unit
Ground Cooling Unit
GDBS Generalized Data Base System
GDP Generalized Documentation Processor
GDS Goldstone, California (STDN)
GE General Electric
GEDAC General Electric Detection & Automatic Correction
GEN Generator
GEOPAUSE Geodetic Satellite in Polar Geosynchronous Orbit
GEOSEPS Geosynchronous Solar Electric Propulsion Stage
GERT Graphical Evaluation & Review Techniques
GET Ground Elapsed Time
GETS Ground Equipment Test Sets
GF&P Gases, Fluids & Propellants
GFAE Government Furnished Aircraft Equipment
GFD Government Furnished Data
GFE Government Furnished Equipment
GFM Government Furnished Material
GFP Government Furnished Property
GFRP Graphite Fiber Reinforced Plastics
Glass Fiber Reinforced Plastics

GFS Government Furnished Software
 GFY Government Fiscal Year
 GH2 Gaseous Hydrogen
 GHA Greenwich Hour-Angle
 General Housekeeping Area
 GHe Gaseous Helium
 GHX Ground Heat Exchanger
 GIM Generalized Information Management
 GITS Ground Interface Technical Group
 GIWS Ground Interface Working Group
 GLAADS Gun Low Altitude Air Defense System
 GLC Generator Line Contractor
 GLOW Gross Lift-Off Weight
 Ground Lift-Off Weight
 GLY Glycol
 GMAL General Electric Macro Assembly Language
 GMIL Spaceflight Tracking and Data Network Station (KSC)
 GMT Greenwich Mean Time
 G&N Guidance & Navigation
 GN2 Gaseous Nitrogen
 GN&C Guidance, Navigation & Control
 GNC Guidance & Navigation Control
 GNCIS Guidance, Navigation & Control Integration Simulator
 GND Ground
 GND C/O Ground Checkout
 GNP Gross National Product
 GO General Order
 GO2 Gaseous Oxygen
 GOAL Ground Operations Aerospace Language
 GOC Ground Operations Coordinator
 GOCA Ground Operations Control Area
 GOMS Ground Operations Management System
 GOP Ground Operations Panel
 GOPG Ground Operations Planning Group
 GORP Ground Operations Requirements Plan
 GOSS Ground Operations Support System
 GOX Gaseous Oxygen (GO2)
 GP General Purpose
 General Publication (KSC)
 GPAS General Purpose Airborne Simulator
 GPC General Purpose Computer
 Gel Permeation Chromatograph
 GPL General Purpose Laboratory
 GPME General Purpose Mission Equipment
 GPRN GOAL Test Procedure Release Notice
 GPS Ground Power Supply
 GPSS General Purpose Simulation System (IBM)
 GPTE General Purpose Test Equipment
 GRE Gamma Ray Explorer
 GRID Graphic Retrieval & Information Display
 GS Ground Station
 GSA General Services Administration
 GSCU Ground Service Cooling Unit

GSDL	Ground Software Development Laboratory
GSE	Ground Support Equipment
GSEL	Ground Support Equipment List
GSFC	Goddard Space Flight Center (Greenbelt, MD)
GSI	Government Source Inspection
GSS	Ground Support Software
GSVP	Ground Support Verification Plan
GT	Ground Test
GT&A	Ground Test and Acceptance
GTA	Ground Test Article
GTCU	Ground Thermal Conditioning Unit
GTI	Grand Turk Island
GUL	GSE Utilization List
GVT	Ground Vibration Test
GVTA	Ground Vibration Test Article
GW	Gross Weight
GWA	General Work Area
GWM	Guam (STDN)
GWT	Ground Winds Tower
GYM	Guaymas, Mexico (Remote Site)
GYROA	Gyro A

-H-

(H)	Hazardous (Task Classification)
H	Henry (SI Unit)
H/E	Heat Exchanger
H/L	Hardline
H/S	Heat Shield
H/T	Heat Treat
HA	Hazard Analysis
HAA	High Altitude Abort
HAFB	Holloman Air Force Base
HAK	Horizontal Access Kit
HAL	High-Order Assembly Language Houston Aerospace Language
HAS	Holddown Alignment Support
HAST	High Altitude Supersonic Target
HAW	Hawaii (STDN)
HB	High Bay Handbook
HBW	Hot Bridge Wire
HC	Head Count Hybrid Computer
HCMM	Heat Capacity Mapping Mission
HCU	Hydraulic Charging Unit
HDP	Holddown Post
HDQTRS	Headquarters
HDR	High Data Rate
HDS	Hardware Description Sheet

HDWE	Hardware
He	Helium
HEAD	High Energy Astronomy Observatory
HEM	Hatchhike Experiment Module
HEO	High Energy Orbit
HEPA	High Efficiency Particle Accumulator
HER	HIM Equipment Rack
HERSCP	Hazardous Exposure Reduction & Safety Criteria Plan
HESS	High Energy Squib Simulator
HF	High Frequency
	Horizontal Flight
HFA	High Frequency Accelerometer
HFC	Hydraulic Flight Control
	Heat Flow & Convection
HFCT	Hydraulic Flight Control Test
HFCV	Helium Flow Control Valve
HFMU	High Fidelity Mockup
HFT	Horizontal Flight Test
HFTF	Horizontal Flight Test Facility
HFTS	Horizontal Flight Test Simulator
HFX	High Frequency Transceiver
Hg	Mercury
HGA	High Gain Antenna
HGDS	Hazardous Gas Detection System
HGM	Hot Gas Manifold
HGR&SPTFAC	Hangar and Support Facility
HGVT	Horizontal Ground Vibration Test
HI	Honeywell, Inc.
HIM	Hardware Interface Module
HIPO	Hierarchical Input-Process Output
HL	Hinge Line
	Heel Line
HMC	Hybrid Microcircuit
HMF	Hypergol Maintenance Facility
	Horizontal Mating Facility
HMX	Cycloteramethylenetrinitramine
HNS	Hexanitrostilbene
HO	Hydrogen-Oxygen
HOL	High Order Language
HOS	High Order Software
HP	High Pressure
HPFTP	High Pressure Fuel Turbopump
HPGS	High Pressure Gas System
HPI	High Performance Insulation
HPOP	High Pressure Oxidizer Pump
HPOTP	High Pressure Oxidizer Turbopump
HPS	Hydraulics Power System
HPU	Hydraulic Power Unit
HQ	Headquarters
HR	Hour
	Hydrogen Relief
	Historical Record
HRIR	High Resolution Infrared Radiometer

HRL Horizontal Reference Line
 HRPS Hazard Reduction Precedence Sequence
 HRS Hours
 HRSI High Temperature Reusable Surface Insulation
 HRT High Resolution Tracker
 HS High Speed
 HSCU Hydraulic Supply and Checkout Unit
 HSF Hypergol Servicing Facility
 HSG High Sustained G2 Acceleration
 HSI Horizontal Situation Indicator
 HSK Horizontal Sling Kit
 HSL Hardware Simulation Laboratory
 HT Heat Transfer
 HTG Heating
 HTLL High Test Level Language
 HTPB Hydroxyl Terminated Polybutadiene
 HTS Heat Transport System
 HUL Hardware Utilization List
 HV High Voltage
 HVAC Heating, Ventilating & Air Conditioning
 HVSF Honeywell Verification Simulation Facility
 HVSL Holidays, Vacation & Sick Leave
 HW Hotwire
 Hardware
 HX Heat Exchanger
 HYD Hydraulics
 Hydraulic Subsystem
 HYGL Hypergolic
 HYPACE Hybrid Programmable Attitude Control Electronics
 HZ Hertz (cycles per second)

-I-

I Iodine
 I/F Interface
 I/FU Interface Unit
 I/O Input/Output
 I/T Intertank
 IA Input Axis
 Implementation Agency
 Issuing Agency
 Inverter Assembly
 IAA International Aerospace Abstracts
 IAD Interface Agreement Document
 Interface Analysis Document
 IAL Immediate Action Letter
 IAS Indicated Airspeed
 Impact Assessment Sheet
 IAV Inventory Adjustment Voucher

IB	Inert Building Instruction Book
IBM	International Business Machines
IBF	Internally Blown Flap
I&C	Installation & Checkout
IC	Intercommunications Interim Change Information Center Integrated Circuit Incremental Cost
ICA	Item Change Analysis
ICAR	Investigation & Corrective Action Report
ICB	Interim Change Bulletin Interrupt Control Block
ICC	Inter - Computer Channel Interface Control Chart Interstate Commerce Commission
ICCP	Interface Coordination and Control Procedure
ICD	Interface Control Document
ICDR	Incremental Critical Design Review
ICDU	Inertial Coupling Data Unit
ICE	Instrumentation Communication Equipment Instrument Checkout Equipment
ICMS	Indirect Cost Management System
ICMT	Intercontract Material Transfer
ICO	Integrated Checkout
ICR	Instruction Change Request Interface Compatibility Record
ICS	Interpretive Computer Simulator
ICT	Interface Control Tooling
ICWG	Interface Control Working Group
ID	Inside Diameter Identification Interface Document
IDI	Instrumentation Data Items
IDO	Interdivisional Operations
IDR	Intermediate Design Review
IDRD	Information Definition Requirements Document
IDS	Item Description Sheet Interface Data Sheet
IDSO	Interdivisional Sales Order
IDTA	Interdivisional Technical Agreement
IDU	Interface Demonstration Unit
IDWA	Interdivisional Work Authorization
IEA	Integrated Electronic Assembly
IF	Intermediate Frequency
IFA	Interface Functional Analysis
IFB	Invitation For Bid
IFN	Inflight Maintenance
IFO	Information Systems Office
IFR	Instrument Flight Rules
IFTV	Interim Hypersonics Test Vehicle

IG	Instrument Ground
	Internal Guidance
IGA	Inner Gimbal Angle
IGDS	Iodine Generating & Dispensing System
IGM	Interactive Guidance Mode
IHTV	Interim Hypersonics Test Vehicle
IHX	Interloop Heat Exchanger
ILP	Integrated Logistics Panel
ILS	Instrument Landing System
	Integrated Logistics Support
IMF	Inventory Master File
IML	Inside Mold Line
IMPL	Implement
IMS	Inventory Management System
IMU	Inertial Measurement Unit
IN	Inches
	Information Systems Directorate (KSC)
INC	Installation Notice Card
INCL	Include
INCR	Increment
IND	Indicator
INIT	Initial
	Initiate
INS	Inertial Navigation System
INSTL	Installation
INSTL&C/O	Installation & Checkout
INSTR	Instrument
INSTRUM	Instrumentation Subsystem
INT	Integrated Testing
INTASAT	Instituto Nacional De Technica Aeroespacial Satellite
INTV	Interim Hypersonics Test Vehicle
INV MGT	Inventory Management
IO	Industrial Operations (MSFC)
IOA	Input/Output Adapter
IOB	Input/Output Buffer
IOC	Initial Operational Capability
	Input/Output Controller
	Indirect Operating Costs
IOP	Input/Output Processor
IOPL	Integrated Open Problem List
IOS	Instructor Operation Station
	Indian Ocean Ship (Tracking)
	Input/Output Supervision
IOU	Input/Output Unit
IP	Identification of Position
	Intermediate Pressure
	Intermediate Pallet
IPACS	Integrated Power & Attitude Control System
IPAD	Integrated Program for Aerospace Vehicle Design
IPB	Illustrated Parts Breakdown
	Illuminated Push Button
IPC	Intermittent Positive Control
IPCL	Instrumentation Program & Component List

IPE Industrial Plant Equipment
 IPF IUS Processing Facility
 IPL Indentured Parts List
 Initial Program Load
 IPR Interim Problem Report
 IPS Instrumentation Power Subsystem
 Inverter Power Supply
 Inches Per Second
 International Pipe Standard
 IPSL Interface Problem Status Log
 IPT International Pipe Thread
 I&R Interchangeability & Replaceability
 I&RS Instrumentation & Range Safety
 IR Infrared
 Inside Radius
 IRAN Inspection & Repairs Necessary
 IRD Information Requirements Document
 IRG Inertial Rate Gyro
 IRIG Inertial Rate Integrating Gyro
 Inter-Range Instrumentation Group
 IRL Interface Requirement List
 IRME Initiator Resistance Measuring Equipment
 IRN Interface Revision Notice
 IRR Integral Rocket Ramjet
 IRTCM Integrated Real Time Contamination Monitor
 IRU Inertial Reference Unit
 IRV Isotope Reentry Vehicle
 I&S Interchangeability and Substitutability
 IS Installation Support
 ISI Initial Systems Installation
 ISIL Interim Support Items List
 ISO International Standardization Organizations
 ISP Initial Specific Impulse
 ISPG Institutional Support Planning Group
 ISS Instruction Summary Sheet
 Integrated System Schematic
 Installation Support Services
 IST Integrated Systems Test
 ISTA Intertank Structural Tank Assembly
 ISTB Integrated Subsystem Test Bed
 I&T Integration and Test
 ITE Instrumentation Test Equipment
 ITI Inspection & Test Instruction
 IU Instrumentation Unit
 IUCS Instrumentation Unit Updata Command System
 IUS Interim Upper Stage
 IVA Intravehicular Activity
 IVAR Internal Variable
 IVE Interface Verification Equipment
 IWBS Indirect Work Breakdown Structure

J	Joule (SI Unit)
J/M	Jettison Motor
JAN	Joint Army-Navy
JAS	Journal of Aerospace Science
JB	Junction Box
JCL	Job Control Language
JCT	Junction
JETS	Joint Electronics Type (Designation) System
JIR	Job Improvement Request
JO	Job Order
JOC	Joint Operations Center
JOD	Joint Occupancy Date
JOP	Joint Operating Procedure
JOR	Job Order Request
JP	Jet Propellant
	Jet Propulsion
JPIC	Joint Program Integration Committee
JPL	Jet Propulsion Laboratory
JPP	Joint Program Plan
JSC	Johnson Space Center (Formerly MSC)
JSLWG	Joint Spacelab Working Group
JST	Joint Systems Test
JURG	Joint Users Requirements Group

K	Kilo
	Kelvin
	One Thousand
K-LBS	Thousand Pounds
K-SM	KSC Shuttle Management (Document)
K-STSM	KSC STS Management (Document)
K/S	Kick Stage
KAPL	Kennedy Approved Parts List
KAU	Kilo Accounting Units
KB	Keyboard
KBPS	Kilobits Per Second
KBU	Keyboard Unit
KCAS	Knots Calibrated Airspeed
KCS	Key Configuration Studies
KDN	Kinetically Designed Nozzle
KDT	Keyboard and Display Unit
KHB	Kennedy Handbook
KHZ	Kilohertz
KIAS	Knots Indicated Airspeed

KIS	Kitting Instruction Sheet
KMI	Kennedy Management Instructions
KN	Kennedy Notice
KNO	Kano, Nigeria (Remote Site)
KOI	Kennedy Operation Instruction
KOPS	Thousand of Operations Per Second
KPD	Kennedy Program Directive
KPRD	Kennedy Program Requirements Document
KPS	Kilometers Per Second
KSC	Kennedy Space Center
KSSS	KSC Station Set Specification
KVA	Kilovoltampere
KW	Kilowatt
KYBD	Keyboard

-L-

L	Left
	Launch
	Lumen
	Level
	Length
L/D	Lift-to-Drag Ratio
	Length to Diameter
L/O	Lift-Off
LA	Launch Abort
	Lanthanum
	Launch Area
	Launch Azimuth
	Lightning Arrestor
LAAD	Los Angeles Aircraft Division
LACB	Landing Aids Control Building
LAD	Los Angeles Division (Rockwell)
LAGS	Launch Abort Guide Simulation
LARC	Langley Research Center (Hampton, VA)
LARS	Laminar Angular Rate Sensor
LARSYSAA	Laboratory for Application of Remote Sensing System for Aircraft Analysis
LASCOT	A Large Screen Color Television System
LAT	Latitude
	Lateral
	Lot Acceptance Test
LB	Low Bay
	Load Bank
	Pound
LBDT	Low Bay Dolly Tug
L&C	Laboratory and Checkout
LC	Launch Complex

LCA	Launch Control Amplifier
	Load Controller Assembly
LCC	Launch Control Center
	Life Cycle Cost
LCCD	Launch Commit Criteria Document
LCD	Launch Countdown
LCG	Liquid Cooled Garment
LCHTF	Low Cycle High Temperature Fatigue
LCR	Low Cross Range
LCU	Line Coupling Unit
	Length to Diameter
L&D	Landing & Deceleration
LDB	Launch Data Bus
LDEC	Lunar Docking Events Controller
LDEF	Long Duration Exposure Facility
LDS	Landing, Deservicing & Safing
	Landing/Deceleration Subsystem
LE	Launch Escape
	Leading Edge
	Loads
LEA	Logistics Engineering Analysis
LED	Light Emitting Diode
LEO	Low Earth Orbit
LERC	Lewis Research Center (Cleveland, OH)
LES	Launch Escape Subsystem
LESS	Leading Edge Structure Subsystem
LETF	Launch Equipment Test Facility
LF	Launch Facility
	Low Frequency
	Load Factor
LFOP	Landing & Ferry Operations Panel
LG	Landing Gear
LGA	Low Gain Antenna
LH	Left Hand
LH2	Liquid Hydrogen
LHA	Local Hour-Angle
LIDAR	Laser-Radar
LIM	Limit
LIMS	Logistics Inventory Management System
LINJET	Liquid Injection Electric Thruster
LIOH	Lithium Hydroxide
LL	Launch & Landing
	Long Lead
	Low Level
LLCF	Launch & Landing Computational Facilities
LLIL	Long Lead-Time Items List
LLP	Launch & Landing Project
LM	Long Module
LMF	Lower Mid Fuselage
LMK	Landmark
LMP	List of Measurement Points
LMS	Load Measurement System
LMSC	Lockheed Missiles & Space Corporation

LN2	Liquid Nitrogen
LNDG	Landing
LNG	Liquified Natural Gas
LO	Launch Operations
LO2	Liquid Oxygen
LOA	Landing Operations Area
LOAP	List Of Applicable Publications
LOB	Line Of Balance
LOC	Launch Operations Complex
LOE	Level Of Effort
LOGO	Limit of Government Obligation
LOLI	Limited Operational-Life Items
LORA	Level Or Repair Analysis
LORAN	Long Range Navigation
LOS	Line Of Sight
	Loss Of Signal
	Lift Off Simulator
LOV	Limit Of Visibility
	Loss Of Visibility
LOX	Liquid Oxygen
LP	Low Pressure
	Launch Pad
LPD	Launch Procedure Document
LPDM	List of Physical Dimensions
LPFTP	Low Pressure Fuel Turbopump
LRG	Liquid Propellant Gun
LPLWS	Launch Pad Lightning Warning System
LPM	Lines Per Minute
LPOP	Low Pressure Oxidizer Pump
LPOTP	Low Pressure Oxidizer Turbopump
LPR	Line Printer
LPS	Launch Processing System
	Liters Per Second
LPS/CDS	LPS/Central Data Subsystem
LPW	Lumens Per Watt
LRSI	Low Temperature Reusable Surface Insulation
LRU	Line-Replaceable Unit
LRV	Launch Readiness Verification
L&S	Logistics & Support
LS	Limit Switch
	Life Science
LSB	Lower Side Band
	Least Significant Bit
LSC	Linear Shaped Charge
LSE	Launch Support Equipment
	Life Support Equipment
LSD	Landing Ship Dock
LSID	Launch Sequence and Interlock Document
LSM	Life Science Module
LSO	Large Solar Observatory
LSR	Land Sea Rescue
	Launch Site Recovery
LSS	Life Support Subsystem

LSSL	Life Sciences Space Laboratory
LSSM	Launch Site Support Manager
LS/ST	Light Shield/Star Tracker
LST	Launch Support Team
	Local Standard Time
	Liquid Storage Tank
	Large Stellar Telescope
	Large Space Telescope
L&T	Laboratories & Test
LUT	Launcher-Umbilical Tower
LV	Launch Vehicle
	Lift Vector
	Low Voltage
LVDC	Launch Vehicle Digital Computer
LVDT	Linear Voltage Differential Transformer
	Linear Variable Differential Transformer
LVLH	Local Vertical/Local Horizontal
LWG	Logistics Working Group
LWR	Lower
LWS	Lightning Warning System

-M-

M	Meter
	Mercury
	Mass
	Mach
	Mandatory
	Million
M	Maintainability
M-	Time in Days Before Move Operations
M-KG	Meter-Kilogram
M-M-L-S	Model-Modes-Loads-Stresses
M/F	Maintenance Factor
M/S	Measurement Stimuli
M/SCI	Mission/Safety Critical Item
M/U	Mockup
MA	Master
	Maintenance Ability
	Milliamperes
	Multiple Access
	Material Authorization
	Missed Approach
	Mike Amplifier
Ma	Maintenance (STS)
MAA	Mathematical Association of America
MAAB	Materials Application Advisory Board

MAB Missile Assembly Building
 Mechanical Automation Breadboard
 Materials Advisory Board
MAC Mean Aerodynamic Chord
 Maximum Allowable Concentration
 Multi-Access Computer
 Maintenance Advisory Committee
 Military Airlift Command
MACH Machine
MACO Major Assembly Checkout
MACRO Merge & Correlate Recorded Output (Program)
MAD Maintenance Analysis Data
 Madrid, Spain (STDN)
MAF Mixed Amine Fuel
 Manpower Authorization File
 Michoud Assembly Facility
MAG Magnetic
 Magnitude
MAI Machine-Aided Indexing
MAIDS Management Automated Information Display System
 Multipurpose Automatic Inspection & Diagnostic
 System
MAIR Manufacturing And Inspection Record
MAL Malfunction
 Material Allowance List
MALL Malleable
MAN Manual
 Microwave Aerospace Navigation
MAOT Maximum Allowable Operating Time
MA&P Maintenance Analysis and Planning
MAP Missed Approach Point
 Message Acceptance Pulse
 Maintenance Analysis Program
MAPOLE Magnetic Dipole Spark Transmitter
MATCO Materials Analysis, Tracking & Control (JSC Data
 System)
MATL Material
MAU Million Accounting Units
MAX Maximum
MAXCO Maximum Dynamic Pressure
MB Management Baseline
MBCS Motion Base Crew Station (SMS)
MBFP Manufacturing, Build and Flow Plan
MBO Management By Objective
MBPS Megabits Per Second
MBV Main Base Visit
M&C Maintenance & Checkout
MC Mission Capability
MCBF Mean Cycle Between Failures
MC&C Measurement, Command and Control
MCC Main Combustion Chamber
 Mission Control Center
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
MCDS	Multifunction CRT Display System
MCDU	Multifunction CRT Display Unit
MCF	Maintenance & Checkout Facility
MCIU	Manipulator Controller Interface Unit
MCL	Master Configuration List
MCN	Master Change Notice
MCO	Mission Control Operations
MCOP	Mission Control Operations Panel
MCP	Master Change Proposal
	Monitoring and Control Panel
	Master Computer Program
	Measurements Control Procedure
	Mission Control Programmer
	Materials Control Plan
MCR	Master Change Record
MCS	Maintenance & Checkout Station
	Measurements Calibration System
MCVP	Materials Control and Verification Program
MCW	Modulated Continuous Wave
MD	Mission Director
	Microdot
	Master Dimension
	Malfunction Detection
MDA	Maintainability Design Approach
MDAC	McDonnell Douglas Aircraft Corporation
MDAR	Malfunction Detection Analysis & Recording
MDAS	Meteorological Data Acquisition System
	Mission Data Acquisition System
MDB	Mission Data Book
MDC	Main Display Console
	Mission Director Center
MDCS	Maintenance Data Collection System
	Material Data Collection System
	Master Digital Command System
MDD	Mate/Demate Device
MDE	Modular Display Electronics
	Mission Dependent Equipment
	Mission Dependent Experiment
MDF	Mating/Demate Facility
	Mild Detonating Fuse
MDL	Master Data Library
MDM	Multiplexer/Demultiplexer
MDR	Maintenance Demand Rate
	Missing Data Report
	Major Design Review
	Minor Discrepancy Repair
	Mission Data Reduction
MDRD	Mission Data Requirements Document

MDRS	Mission Data Retrieval System
	Manufacturing Data Retrieval System
MDS	Management Data System
	Master Development Schedule
	Mission Development Simulator
	Malfunction Detection System
	Minimum Discernible System
MDT	Mountain Daylight Time
	Measurement Descriptor Table
	Mean Down Time
	Mean Detonating Time
ME	Main Engine
	Management Engineering
	Miscellaneous Equipment
MEA	Maintenance Engineering Analysis
	Main Electronics Assembly
MEAR	Maintenance Engineering Analysis Request
MEAS	Measuring
MEBO	Main Engine Burnout
MEC	Main Engine Controller
	Master Event Controller
MECA	Main Engine Controller Assembly
MECF	Main Engine Computational Facilities
MECH	Mechanical
MECO	Main Engine Cutoff
MECR	Maintenance Engineering Change Request
MED	Medium
	Medical
MEDICS	Medical Information Computer System
MEE	Mission Essential Equipment
MEG	Megohm
MEI	Master Inspection Item
MEL	Minimum Equipment List
MELI	Master Equipment List Index
MEM	Module Exchange Mechanism
MEOP	Maximum Expected Operating Pressure
MEP	Mean Effective Pressure
	Management Engineering Program
MER	Meridian
	Mission Evaluation Room
MERL	Materials Engineering Research Laboratory
MERSAT	Meteorology and Earth Observation Satellite
MES	Main Engine Start
MET	Mission Elapsed Time
	Meteorological
MF	Medium Frequency
	Mate and Ferry
MFA	Manned Flight Awareness
MFBP	Manufacturing Flow & Building Plan
MFC	Multiple Flight Computer
	Multiple Flight Controller
MFD	Malfunction Detection

MFG	Manufacturing
	Major Functional Group
MFR	Maximum Flight Rate
	Multifunctional Receiver
MFT	Mean Flight Time
MFTAD	Master Flight Test Assignment Document
MFV	Main Fuel Valve
MG	Magnesium
	Mobile Generator
MGA	Middle Gimble Angle
MGE	Maintenance Ground Equipment
MGMT	Management
MGSE	Mechanical Ground Support Equipment
MGT	Major Ground Test
MGVF	Mated Ground Vibration Test
MHD	Multi-Head Disc
MHE	Materials Handling Equipment
MHF	Medium High Frequency
MHZ	Megahertz (Megacycles per second)
MI	Mile
MIA	Multiplex Interface Adapter
MIC	Management Information Center
MICIS	Material Inventory Control & Inventory System
MICOM	Missile Command (Army)
MICS	Management Information and Control System
MIL	Military
MILA	Merritt Island Launch Area
MIMOSA	Mission Modes and Space Analysis
MIMS	Medical Information Management System
MIN	Minimum
	Minute
MIO	Management Integration Office
MIP	Mandatory Inspection Point
	Modification Instruction Package
MIPS	Merritt Island Press Site
MIR	Malfunction Investigation Report
MIS	Management Information System
	Mission Information Subsystem
MISC	Miscellaneous
MISS	Mission
MIT	Massachusetts Institute of Technology (CSDL)
MITTS	Mobile Igor Tracking Telescope System
MIUS	Modular Integrated Utility Systems
MJ	Mechanical Joint
ML	Mobile Launcher
	Mold Line
MLC	Mobile Launcher Computer
MLG	Main Landing Gear
MLGS	Microwave Landing Guidance System
MLI	Multilayer Insulation
MLP	Mobile Launcher Platform
MLPED	Mobile Launcher Pedestal
MLS	Microwave Landing System

M&M	Materials & Maintenance
MM	Millimeter
	Mass Memory
	Man-Month
	Main Module
MMAS	Material Management Accountability System
MMC	Mission Management Center
	Martin Marietta Corporation
MMDB	Master Measurement Data Base
MMDF	Mission Model Data File
MMES	MSFC Mated Element Systems
MMH	Monomethyl Hydrazine
	Maintenance Man-Hour
MML	Master Measurements List
MMLS	Model-Modes-Loads-Stresses
MMOS	Multimode Optical Sensor
MMS	Multi-Mission Modular Spacecraft
MMSE	Multiuse Mission Support Equipment
MMT	Mass Memory Test
MMU	Manned Maneuvering Unit
	Mass Memory Unit
MO	Manufacturing Order
	Month
	Major Objective
	Molybdenum
MOA	Make On Arrival
	Memorandum Of Agreement
MOCF	Mission Operations Computational Facilities
MOCR	Mission Operations Control Room
MOCS	Multichannel Ocean Color Sensor
MOD	Modification
	Modulator
	Module
MODART	Methods of Defeating Advanced Radar Threats
MODEM	Modulator-Demodulator
MOF	Manned Orbital Flight
MOPS	Mission Operations Planning System
MOR	Manufacturing Operation Record
MORD	Mission Operations Requirements Document
MORT	Management Oversight and Risk Tree
MOS	Metal Oxide Semiconductor
	Metal Oxide on a Substrate
MOSPO	Mobile Satellite Photometric Observatory
MOT	Motor
MOU	Memorandum Of Understanding
MOV	Main Oxidizer Valve
M&P	Material & Processing
MP	Medium Pressure
	Management Package
	Measuring Point
MPAD	Mission Planning and Analysis Division
MPB	Maintenance Parts Breakdown
MPG	Multipoint Grounding

MPHE	Material & Personnel Handling Equipment
MPIIN	Modification Procurement Instrument Identification Number
MPL	Minimum Power Level Maintenance Parts List Mechanical Parts List
MPM	Manipulator Positioning Mechanism
MPMP	Mass Properties Management Plan
MPP	Material Processing Procedure Merit Promotion Plan
MPR	Maintainability Problem Report Mockup Purchase Request
MPS	Main Propulsion Subsystem Master Program Schedule Material Processing Specification
MPSR	Mission Profile Storage & Retrieval
MPT	Main Propulsion Test
MPTA	Main Propulsion Test Article
MPTF	Main Propulsion Test Facility
M&R	Maintenance & Refurbishment Maintenance & Repair
MR	Mixture Ratio
MRA	Mechanical Readiness Assessment
MRB	Material Review Board
MRC	Measurement Requirements Committee
MRD	Mission Requirements Document Material Review Disposition
MRF	Measurements/Stimuli Request Form Maximum Retarding Force
MRIR	Medium Resolution Infrared Radiometer
MRL	Material Requirements List
MRS	Management Review System
MS	Millisecond Milestone Mass Spectrometry Military Standard (Parts Designation) Margin of Safety Material Specification Master Switch Machine Screw Machine Steel
MSA	Material Service Area Minimum Surface Area
MSB	Most Significant Bit
MSBLS	Microwave Scanning Beam Landing System
MSBLS-GS	MSBLS Ground Station
MSC	Manned Spacecraft Center Materials Service Center Master Sequence Controller
MSDS	Multispectral Scanner and Data System

MSE	Maintenance Support Equipment Mechanical Support Equipment Medical Support Equipment Measuring & Stimuli Equipment
MSF	Manned Space Flight
MSFC	Marshall Space Flight Center
MSFN	Manned Space Flight Network
MSG	Message
MSI	Maintenance Significant Items
MSL	Mean Sea Level Mechanical Systems Laboratory
MS/MS	Material Science and Manufacturing in Space
MSM	Manned Support Module
MSO	Model for Spares Optimization
MSOB	Manned Spacecraft Operations Building
MSOCC	Multisatellite Operations Control Center
MSOIN	Minor Subcontractor or IDWA Notification
MSS	Manufacturers Standardization Society Mission Specialist Station Mobile Service Structure Multispectral Scanner System
MST	Mountain Standard Time Measurement Status Table
MSU	Mass Storage Unit Measuring Stimuli Units
MSW	Microswitch
MT	Magnetic Tape Mount Mountain Time Maximum Torque Master Timer Mechanical Technician Master Tool
MTA	Major Test Article Mass Thermal Analysis
MTB	Materials Testing Branch
MTBD	Mean Time Between Demand
MTBF	Mean Time Between Failures
MTBM	Mean Time Between Maintenance
MTBMA	Mean Time Between Maintenance Action
MTBR	Mean Time Between Replacements
MTC	Master Thrust Control
MTC A	Monitor & Test Control Area
MTCU	Magnetic Tape Control Unit
MTD	Mounted
MTDSK	Magnetic Tape Disk
MTE	Multi-System Test Equipment
MTF	Mississippi Test Facility (Now NSTL)
MTFO	Modular Training Field Option
MTG	Mounting
MTK	Mechanical Time Keeping
MTL	Material
MTLP	Monitor Table Listing Program

MTM	Methods Time Measurement
MTO	Mission, Task, Objective
	Modification Task Outline
MTP	Master Test Plan
	Mission Test Plan
	Manufacturing Technical Procedure
MTR	Mean Time to Repair
MTS	Magnetic Tape Station (system)
MTTA	Mean Time to Accomplish
MTTF	Mean Time to Failure
MTTFF	Mean Time to First Failure
MTTR	Mean Time to Repair
MTU	Magnetic Tape Unit
	Master Timing Unit
	Mobile Training Unit
MU	Mobile Unit
	Multiple Unit
	Master Unit
MUA	Maximum Usable Altitude
	Materials Usage Agreement
MUF	Maximum Usable Frequency
MULT	Multiple
MUMS	Multiple Use Marc System
MUX	Multiplexer
MV	Manufacturing Verification
	Millivolt
MVA	Megavolt Ampere
MVAS	Multipurpose Ventricular Actuating System
MVC	Master Volume Control
	Manual Volume Control
MVGVT	Mated Vertical Ground Vibration Test
MVM	Mariner Venus/Mercury
MVP	Master Verification Plan
MW	Milliwatt
	Microwave
	Man Week
MWB	Master Work Book
MWP	Maximum Working Pressure
MWPR	Monthly Work Package Report
MWR	Mean Width Ratio
MWV	Maximum Working Voltage
MX	Multiplex
MY	Man Years

N2	Nitrogen
N2H4	Hydrazine
N2O4	Nitrogen Tetroxide
N/A	Next Assembly
N/B	Narrow Band
N/C	Normally Closed
N/O	Normally Open
N/P	Not Provided
NA	Not Applicable
	Next Action
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 & Record Service
NAS	National Aircraft Standards
	Naval Air Station
	National Academy of Sciences
NASA	National Aeronautics and Space Administration
NASCOM	NASA Communications (Network)
NASTRAN	NASA Structural Analysis
NATL	National
NATF	Naval Air Test Facility
NAV	Navigation
NAVID	Navigation Aid
NAVSAT	Navigation Satellite
NB	No-Bias (Relay)
	Navigation Base
	Nitrogen Base
	Niobium
NBS	National Bureau of Standards
NC	Numerical Control
	National Coarse
	No Change
	No Comment
	Noise Criteria
NCC	NASA Class Code
NCGS	Nuclear Criteria Group Secretary
ND	NASA Document
	Neodymium
NDE	Non-Destructive Evaluation
NDI	Non-Destructive Inspection
NDT	Non-Destructive Testing

NEC National Electrical Code
 NEG Negative
 NESC National Electrical Safety Code
 NET Network
 NFPA National Fire Prevention Association
 N&G Navigation & Guidance (G&N is preferred)
 NG Narrow Gage
 NH3 Ammonia
 NH4 Hydrazine
 NHA Next Higher Assembly
 NHB NASA Handbook
 NI Nickel
 NIB Non-Interference Basis
 NIC Not In Contract
 NICD Nickel Cadmium
 NIL No Limit
 NIP Nipple
 NI-SIL Nickle-Silver
 NJP Network Job Processing
 NL No Limit
 NLG Nose Landing Gear
 NM Nautical Miles
 Non Metallic
 NMAB National Materials Advisory Board
 NMI NASA Management Instruction
 NMO Normal Manual Operation
 NMR Nuclear Magnetic Resonance
 NMT Notification of Master Tool
 NOAA National Oceanic & Atmospheric Administration
 NOC Network Operation Control
 Notation Of Content
 NOCC Network Operations Control Center
 NOES National Operational Environmental Satellite
 Services
 NOR Normal
 NORAD North American Air Defense Command
 NOZ Nozzle
 NP Network Program
 Neptunium
 NPC NASA Publication Control
 NPD NASA Policy Directive
 NPL Normal Power Level (see RPL)
 NPS NASA Planning Studies
 NPSH Net Positive Suction Head
 NPSP Net Positive Suction Pressure
 Net Positive Static Pressure
 NPV Nitrogen Pressure Valve
 NR Not Required
 Noise Rating
 NRC Non-Recurring Costs
 NRI Non-Recurring Investment
 NRM Non-Recurring Maintenance
 NRP Normal Rated Power

NRS	Nonconformance Reporting System
NRT	Near Real Time
NRTS	Not Repairable at This Station
NRZ	Non-Return-To-Zero
NS	Nuclear Shuttle
	Nickel Steel
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
NSTL	National Space Technology Laboratory (Was MTF)
NTO	Nitrogen Tetroxide
NTP	Normal Temperature & Pressure
	Notice To Proceed
	Network Test Panel
NTS	Not To Scale
NTSO	NASA Test Support Office
NUL	Non-GSE Utilization List
NVR	No Verification Required
	Nonvolatile Residue
	No Voltage Release
NW	NASA Waiver
	Network
NWS	Nose Wheel Steering
NWSI	New World Services Inc.
NWT	Nonwatertight

-0-

O2	Gaseous Oxygen
O/D	On Dock
O/ET	Orbiter/External Tank
O/F	Oxidizer-To-Fuel Ratio
O/L	Overload
O/L-RC	Overload-Reverse Current
O/R	Outside Radius
O/V	Overvoltage
OA	Orbital Assembly
	Output Axis
	Office of Applications
OAA	Orbiter Access Arm
OAFTO	Orbiter Atmospheric Flight Test Office
OAL	Overall Level
OAS	Orbiter Aeroflight Simulator
	Orbiter Avionics System
OASIS	Oceanic & Atmospheric Scientific Information System

ORIGINAL PAGE IS
OF POOR QUALITY

OASPL	Overall Sound Pressure Level
OAST	Office of Aeronautics and Space Technology
OAT	Overall Test
	Operational Acceptance Test
OB	On Board
	Operational Base
OBC	On Board Computer
OBCO	On Board Checkout (Instrumentation)
OBCS	On Board Checkout Subsystem
OBV	Oxidizer Bleed Valve
O&C	Operations & Checkout (Building - Was MSOB)
OC	On-Condition
	On Center
	Open Circuit
	Overcurrent
OCC	Office of Contract Compliance
	Operations Control Center
OCDR	Orbiter Critical Design Review
OCDU	Optics Coupling Data Unit (G&N)
OCF	Orbiter Computational Facilities
	Onboard Computational Facility
OCH	Orbiter Common Hardware
OCN	Order Control Number
OCO	Open-Close-Open
OCF	Output Control Pulse
OCR	Optical Character Recognition
OCT	Octal
OD	Outside Diameter
	Operations Directive
ODB	Operational Data Book
ODCDR	Orbiter Delta CDR
ODES	Optical Discrimination Evaluation Study
ODIN	Orbital Design Integration System
ODRAN	Operational Drawing Revision Advance Notice
ODU	Output Display Unit
OEAS	Orbital Emergency Arresting System
OECS	Outboard Engine Cutoff
OEM	Original Equipment Manufacturer
OES	Orbiter Emergency Site
OESS	Orbiter/ET Separation Subsystem
O&FS	Operations & Flight Support
OF	Oxygen Fill
	Outside Face
OFCC	Office of Federal Contract Compliance
OFDS	Orbiter Flight Dynamics Simulator
	Oxygen Fluid Distribution System
OFI	Operational Flight Instrumentation
OFK	Official Flight Kit
OFPP	Orbiter Flight Program
	Operational Flight Program
OFT	Orbital Flight Test
OFTR	Orbital Flight Test Requirement

OG Outer Gimbal (Roll)
 Oxygen Gage
 OGA Outer Gimbal Angle
 OGE Operating Ground Equipment
 OGV Oxygen Gage Valve
 OH Overhaul
 Overhead
 OHA Operational Hazard Analysis
 OHGVT Orbital Horizontal Ground Vibration Test
 OI Operational Instrumentation
 Orbiter Instrumentation
 OIA Orbiter Interface Adaptor
 Office of International Affairs
 OIR Operations Integration Review
 OIS Operational Intercommunication System
 OISR Open Item Status Report
 OIT Orbiter Integrated Test
 OJT On the Job Training
 OL Open Loop
 Orbiter Landing Facility
 OLF Orbiter Landing Instrumentation Facilities
 OLIF Orbiter Landing Instrumentation Facilities
 OLOW Orbiter Lift-Off Weight
 OLSA Orbiter /LPS Signal Adapter
 OLSP Orbiter Logistics Support Plan
 O&M Operation & Maintenance
 OM Outer Marker (ILS)
 Optical Master
 OMB Office of Management and Budget
 OMBUU Orbiter Midbody Umbilical Unit
 OMCF Operations & Maintenance Control File
 OMD Operations & Maintenance Documentation
 OMDR Operations & Maintenance Data Record
 OME Orbital Maneuvering Engine
 Orbiter Main Engine
 OMI Operations & Maintenance Instruction
 OML Orbiter Mold Line
 Outside Mold Line
 OMMH Orbiter Maintenance Man-Hours
 OMNI Omni-Range
 Omnidirectional
 OMP Operations & Maintenance Plan
 OMPR Operational Maintainability Problem Reporting
 OMPT Observed Mass Point Trajectory
 OMR Orbiter Management Review
 Operations & Maintenance Requirements
 OMRB Operating Material Review Board
 OMR/P Operations & Maintenance Requirements/Plan
 OMRS Operations & Maintenance Requirements Specifications
 OMRSD Operations & Maintenance Requirements and
 Specification Documentation
 OMS Orbital Maneuvering Subsystem
 OMU Optical Measuring Unit
 OMV Oxygen Manual Valve

OND Operator Need Date
 ONR Office of Naval Research
 OOD Orbiter-On-Dock
 OOMM Organizational Operations & Maintenance Manual
 OOS Orbit-to-Orbit Shuttle
 Orbit-to-Orbit Stage
 On-Orbit Station

 OOT Out of Tolerance
 OP Oxygen Purge
 OPB Oxidizer Preburner
 OPBOV Oxidizer Preburner Oxidizer Valve
 OPE Other Project Element
 OPER Operational, Operate, Operator
 OPF Orbiter Processing Facility
 OPGUID Optimum Guidance (Technique)
 OPIS Orbiter Prime Item Specification
 OPL Open Problem List
 OPNS Operations
 OPPAR Orbiter Project Parts Authorization Request
 OPPL Orbiter Project Parts List
 OPR Office of Primary Responsibility
 Operations Planning Review

 OPS Orbiter Project Schedules
 Oxygen Purge System

 OPT Optics
 Optimum

 O&R Overhaul & Repair
 OR Outside Radius
 Oxygen Relief

 ORB Orbiter
 ORCHIS Oak Ridge Computerized Hierarchical Information
 Systems

 ORD Ordnance
 Operational Ready Data
 Operational Readiness Date

 ORF Orifice
 ORI Operational Readiness Inspection
 ORLA Optimum Repair Level Analysis
 ORR Operations Requirements Review
 Operational Readiness Review
 Orroval Valley, Australia (STDN)

 ORSDI Oak Ridge Selective Dissemination of Information
 ORT Orbit Readiness Test
 OS Orbiter CEI Specification
 Operating System

 OSA Operational Support Area
 OSC Oscillator
 OSDH Orbiter System Definition Handbook
 OSE Operating Support Equipment
 Orbiter Support Equipment

 OSF Office of Space Flight (NASA HQ)
 Ordnance Storage Facility

 OSHA Occupational Safety and Health Administration

OSO	Ocean Systems Operation
OSOP	Orbiter Systems Operating Procedures
OSS	Office of Space Sciences
	Optics Subsystems
	Orbiting Space Station
	Orbit-to-Orbit Stage
OSSRH	Orbiter Subsystem Requirements Handbook
OST	Orbiter Support Trolley
OSTP	Orbiting System Test Plan
OT	Operating Time
	Operational Trajectory
	Overtime
OTA	Optical Telescope Assembly
OTB	Orbiting Tanker Base
OTC	Orbiter Test Conductor
OTD	Operational Technical Documentation
OTDA	Office of Tracking and Data Acquisition
OTH	Over-The-Horizon (Radar)
OTL	Ordnance Test Laboratory
OTLC	Orbiter Timeline Constraints
OTO	One-Time-Only
OTP	Operations Turnaround Plan
OTR	Operating Time Record
	Outer
OTS	Off-The-Shelf
OTV	Operational Television
OUT	Output
	Outlet
	Orbiter Utilities Tray
OUTBD	Outboard
OV	Orbiter Vehicle
	Oxygen Vent
OVBD	Overboard
OVCS	Operational Voice Communication Office
OVF	Overflow
OVFL	Overflow
OVHD	Overhead
OVHT	Overheat
OVLD	Overload
OVRD	Override
OVV	Overvoltage
OW	Optical Window
OWF	Optimum Working Frequency
OXD	Oxide
OXID	Oxidizer
OXY	Oxygen
OZ	Ounce
	Ozone

P	Pallet (Spacelab)
	Period
	Pitch
	Pole
	Primary
P-P	Peak-to-Peak (Value)
P/A	Problem Analysis
P/B	Pushbutton
P/C	Pitch Control
P/L	Parts List
	Payload
P/N	Part Number
P/P	Patch Panel
P/PL	Primary Payload
PA	Pad Abort
	Power Amplifier
	Pulse Amplifier
	Product Assurance
	Problem Action Center
PAC	Problem Action Control Center
PACC	Pointing & Attitude Control System
PACS	Program Approval Document
PAD	Preventive Action Engineer
PAE	Problem Assessment Engineering
	Peak Annual Funding
PAF	Patrick Air Force Base
PAFB	Payload Accommodations Handbook
PAH	Precision Approach & Landing System
PALS	Photo Area and Location System
	Pulse Amplifier Modulation
PAM	Public Affairs Office
PAO	Product Assurance Plan
PAP	Precision Approach Radar
PAR	Problem Accountability Record
	Problem Action Record
	Problem Action Request
	Product Acceptance Review
	Paragraph
PARA	Property Accountability Record System
PARS	Payload Accommodation Studies
PAS	Planning And Scheduling System
PASS	Problem Action Team
PAT	Preliminary Authority To Proceed
PATP	Program for Analysis of Time Series
PATS	Pressure Actuated Valve
PAV	Passengers
PAX	

PB	Playback Phonetically Balanced Preburner
PBAN	Polybutadiene Acrylonitrile (Propellant)
PBD	Payload Bay Door
PBDM	Payload Bay Door Mechanism
PBIC	Programmable Buffer Interface Card
PBK	Payload Bay Kit
PBM	Program Business Management
PBPS	Post-Boost Propulsion Systems
PBW	Proportional Band Width
PC	Project Control Pulsating Current
PCA	Pneumatic Control Assembly Power Control Assembly Point of Closest Approach
PCB	Product Configuration Baseline Printed Circuit Board Power Circuit Breaker Power Control Box
PCC	Pad Control Center Payload Control & Checkout
PCCB	Program Configuration Control Board
PCCM	Program Change Control Management
PCCN	Provisioning Contract Control Number
PCCP	Preliminary Contract Change Proposal
PCDU	Payload Command Decoder Unit
PCI	Program Control Input
PCIL	Pilot-Controlled Instrument Landing
PCIN	Program Change Identification Number
PCL	Primary Coolant Loop Programming Check List
PCM	Pulse Code Modulation Punch Card Machine
PCMMU	Pulse Code Modulation Master Unit
PCN	Program Control Number
PCO	Post-Checkout Operations Procuring Contracting Officer Program Controlled Output
PCP	Project Cost Plan
PCR	Publication Change Request Payload Changeout Room Project Control Room
PCS	Payload Checkout System Power Conversion System Permanent Change of Station
PCTE	Portable Commercial Test Equipment
PCTO	Payload Cost Tradeoff Optimization
PCU	Power Control Unit Pressure Control Unit
PCV	Process Control Unit Pre-Check Verification Purge Control Valve

PCVB	Pyro Continuity Verification Box
PCVL	Pilot Controlled Visual Landing
PD	Program Directive
	Preliminary Design
	Project Directive
PD&RS	Payload Deployment & Retrieval Subsystem
PDA	Propellant Drain Area
PDAR	Program Description And Requirements
PDB	Performance Data Book
	Power Distribution Box
PDC	Procurement Document Change
PDCS	Power Distribution and Control Subsystem
PDI	Payload Data Interleaver
PDL	Program Design Language
PDM	Pulse Duration Modulation
	Processor Data Monitor
PDM/FM	Pulse Duration Modulation/Frequency Modulation
PDP	Program Development Plan
	Preliminary Definition Plan
	Procurement Data Package
	Project Definition Phase
PDR	Program Director's Review
	Preliminary Design Review
	Preliminary Data Requirements
	Processed Data Recorder
PDRD	Procurement Data Requirements Document
PDRL	Procurement Data Requirements List
PDRM	Payload Deployment & Retrieval Mechanism
PDS	Power Distribution Subsystem
	Package Data System
	Partitioned Data Set
PDU	Pressure Distribution Unit
	Pulse Detection Unit
PE	Project Engineer
PEFO	Payload Effects Follow-on Study
PEIR	Project Equipment Inspection Record
PEM	Plant Engineering and Maintenance
PER	Preliminary Engineering Report
PERT	Program Evaluation Review Technique
PETA	Performance Evaluation & Trend Analysis
PETN	Pentaerythrite Tetranitrate
PF	Probability of Failure
	Parachute Facility
	Powered Flight
	Power Factor
	Preflight
	Pulse Frequency
	Prime Function
PFB	Pressure Fed Booster
PFC	Preliminary Flight Certification
	Performance Flight Certification
PFL	Primary Freon Loop

PFM Pulse Frequency Modulation
 Platform
PFPP Program Financial Plan
 Programmable Function Panel
PFRT Preliminary Flight Rating Test
PG Pressure Gage
PGA Pressure Garment Assembly
 Power Generating Assembly
PGE Purge
PGNCS Primary G&N and Control System
PGOR Payload Ground Operation Requirements
PGS Power Generation Subsystem
PH Hydrogen Ion Concentration
 Phase
PHA Preliminary Hazard Analyses
PHF Personal Hygiene Facility
P&I Performance & Interface (Specification)
PI Procurement Item
 Preliminary Investigation
 Program Introduction
PIA Pre-Installation Acceptance
PIB Pyrotechnic Installation Building
PIC Pyro Initiator Controller
 Pyro Initiator Capacitors
 Programmable Interval Clock
 Pre-Installation Checkout
PICP Program Interface Control Plan
PICRS Program Information Coordination & Review Service
 Program Information Control & Retrieval System
PICS Photo Index and Cataloguing System
PID Program Introduction Document
PIDA Payload Installation & Deployment Aid
PIDS Portable Image Display System
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
PIO Pilot-Induced Oscillation
 Public Information Office
PIP Plant Instrumentation Program
 Production Instrumentation Package
 Payload Interface Plan
PIPA Pulse Integrating Pendulum Accelerometers
 Pulse Integrating Pendulum Assembly
PIRN Preliminary Interface Revision Notice
PIT Pre-Installation Test
PITG Payload Integration Task Group
PK Peak (Value)
PKD Programmable Keyboard & Display

PL	Prelaunch Plug Plate Post Landing
PLACE	Position Location Aircraft Communications Equipment
PLBK	Playback
PLH	Payload Handling
PLISN	Provisioning List Item Sequence Number
PLL	Phase Locked Loop
PLM	Payload Management Payload Monitoring
PLMS	Program Logistics Master Schedule
PLN	Program Logic Network
PLS	Post Landing & Safing Propellant Loading System
PLSL	Propellants & Life Support Laboratory
PLSS	Portable Life Support Subsystem
PLT	Production Lead Time
PLTS	Precision Laser Tracking System
P&M	Processes & Materials
PM	Performance Monitor Pulse Modulation Phase Modulation Planetary Mission Program Milestone Preventive Maintenance Project Manager
PMAT	Page Map Address Table
PMC	Procurement Method Code Post Manufacturing Checkout Payload Monitoring & Control Plutonia-Molybdenum Cermet
PMDL	Palmdale, California
PMF	Performance Monitor Function
PMHL	Preferred Measurement Hardware List
PMI	Preventive Maintenance Inspection Principal Maintenance Inspector
PMIR	Program Manager's Integration Review
PML	Preliminary Materials List
PMN	Program Management Network
PMOM	Performance Management Operations Manual
PMON	Performance Management Operations Network
PMP	Program Management Plan Performance Management Package Pre-Modulation Processor Parts, Materials & Processes
PMPL	Preferred Mechanical Parts List
PMR	Program Manager's Review Performance Measurement Report
PMS	Performance Management System Performance Monitoring System Performance Measurement System

PMT	Production Monitoring Test
PMU	Pressure Measuring Unit
PN	Part Number
PNEU	Pneumatic
PNL	Panel
PO	Post Orbit
	Purchase Order
POA	Plan Of Action
POC	Payload Operations Center
	Purchase Order Closeout
POCC	Payload Operations Control Center
POCN	Purchase Order Change Notice
POGO	Polar Orbiting Geophysical Observatory
POL	Petroleum, Oil & Lubricants
POLAR	Production Order Location And Reporting
POM	Pallet Only Mode
	Printer Output Microfilm
POP	Program Operating Plan
	Prelaunch Operations Plan
	Perpendicular to Orbit Plane
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	Positive
	Pacific Ocean Ship
	Portable Oxygen System
POST	Program to Optimize Simulated Trajectories
POT	Potentiometer
POV	Peak Operating Voltage
	Pneumatic Operated Value
POWS	Project Operating Work Statement
PP	Push-Pull
	Partial Pressure
	Planning Package
	Push-Pull
PPB	Parts Per Billion
	Program Performance Baseline
PPC	Phased Provisioning Code
	Preprocessing Center
PPEC	Plasma Physics & Environmental Perturbation
PPF	Payload Processing Facility (USAF)
PPL	Priced Parts List
	Provisioning Parts List
PPM	Parts Per Million
	Pulse Position Modulation
	Pulse Per Minute
PPME	Pacific Plate Motion Experiment
PPS	Pulses Per Second
	Pneumatic Power Subsystem
	Provisioning Performance Schedule

P&R Performance and Resources
 PR Purchase Request
 Procurement Regulation
 Pressure Regulator
 Performance Report
 Position Record
 PRB Panel Review Board
 Parachute Refurbishment Building
 PRC Planning Research Corporation
 PRCA Problem Reporting and Corrective Action
 PRCB Program Requirements Control Board
 PRCBD Program Requirements Control Board Directive
 PRD Procurement Requirements Document
 Procurement Regulation Directive
 Program Requirements Document (UDS)
 Personal Rescue Enclosure
 PRE Personal Rescue Enclosure
 PRESS Pressure
 PRP Pulse Repetition Frequency
 PRI Primary
 PRL Page Revision Log
 PRM Payload Retention Mechanism
 PRN Program Release Notice
 Pseudo Random Noise
 PROG Program
 PROJ Project
 PROM Programmable Read-Only Memory
 PROP Propulsion
 Propellant
 PRPS Programming Requirements Process Specification
 PRR Program Requirements Review
 Preliminary Requirements Review
 Parts Replacement Request
 Pulse Repetition Rate
 PRS Power Reactant Subsystem
 Payload Retention Subsystem
 Personnel Rescue System
 Primary Recovery Site
 Provisioning Requirements Statement
 PRSD Power Reactant Storage and Distribution
 Power Reactant Supply and Distribution
 PRSS Problem Report Squawk Sheet
 P&SM Procurement & Subcontract Management
 PS Payload Support
 Pressure Switch
 Parachute Subsystem
 Power Supply
 PSA Payload Service Area
 Power Servo Assembly
 Power Servo Amplifier
 Pressure Switch Assembly
 PSAC Presidential Scientific Advisory Committee
 PSC Program Schedule Chart
 PSCN Preliminary Specification Change Notice

PSD Power Spectral Density
 PSDR Planning and Scheduling Document Record
 PSE Peculiar Support Equipment
 PSF Processing and Storage Facility
 PSI Pounds Per Square Inch (Static Pressure)
 PSIA Pounds Per Square Inch (Absolute Pressure)
 PSID Pounds Per Square Inch (Differential Pressure)
 PSIG Pounds Per Square Inch (Gage Pressure)
 PSIS Pounds Per Square Inch (Sealed)
 PSK Phase Shift Keyed
 PSL Pressure Seal
 P&SM Procurement & Subcontract Management
 PSM Propellant Storage Module
 Pyro Substitute Monitor
 PSP Program Support Plan
 Payload Signal Processor
 PSPL Priced Spare Parts List
 PSRD Program Support Requirements Document
 PSS Payload Specialist Station
 Propulsion Support System
 Propellant Supply Subsystem
 Pad Safety Supervisor
 PSST Periodic Significant Scheduled Tasks
 PSV Planetary Space Vehicle
 PT Pint
 Point
 Pressure Transducer
 PTA Propulsion Test Article
 Post Test Analysis
 PTC Passive Thermal Control
 Portable Temperature Controller
 PTCR Pad Terminal Connection Room
 PTCs Propellant Tanking Computer System
 Passive Thermal Control Section
 PTD Provisioning Technical Documentation
 PTDDSS Provisioning Technical Documentation Data Selection
 Sheet
 PTI Total Pressure
 PTM Pulse Time Modulation
 PTP Point-To-Point Phones
 PTR Program Trouble Report
 Preliminary Test Report
 Printer
 PTS Payload Test Set
 PTT Push-To-Talk
 PU Propellant Utilization
 Power Unit
 Pickup
 PUB Publication
 PUGS Propellant Utilization & Gauging System
 PUV Propellant Utilization Valve
 PV&D Purge, Vent and Drain
 PVA Preburner Valve Actuator

PVR	Precision Voltage Reference
PVRD	Purge, Vent, Repressurize, and Drain
PVT	Pressure, Volume and Temperature Pyrotechnic Verification Test
PVWA	Planned Value of Work Accomplished
PVWS	Planned Value of Work Scheduled
PW	Pulse Width
PWA	Product Work Authorization Private Write Area
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
QA	Quality Assurance
QACAD	Quality Assurance Corrective Action Document
QAM	Quality Assurance Manual
QAP	Quality Assurance Procedure
QAVT	Qualification Acceptance Vibration Test
QC	Quality Control
QCDR	Quality Control Deficiency Report
QCOP	Quality Control Operating Procedure
QD	Quick Disconnect
QDS	Quality Data System
QE	Quality Engineer
QEC	Quick Engine Change
QGS	Quantity Gauging System
QLDS	Quick Look Data Station
QPL	Qualified Parts List Qualified Products List
QPR	Quarterly Progress Report
QPRD	Quality Planning Requirements Document
QPS	Quality Planning Specification
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
QSL	Qualified Source List
QSS	Quindar Scanning System
QT	Qualification Test

QTP	Qualification Test Plan
QTR	Qualification Test Report
QTY	Quantity
QUAD	Quadrangle, Quadrant, Quadrature
QUADS	Quality Achievement Data System
QUAL	Qualification, Qualified
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	Reliability
	Roentgen
	Ratio
	Right
	Range
	Rankine
	Gas Constant
	Replace
	Receive
R-T	Resistance Test
R/A	Radar Altimeter
R/I	Receiving Inspection
R/L	Remote/Local
R/T	Receiver/Transmitter
R/W	Runway
RAC	Reliability Action Center
RACS	Remote Automatic Calibration System
RAD	Radiation Dosage
	Radius, Radian
RADAR	Radio Detection And Ranging
RAF	Requirements Analysis Form
RAG	Reusable Agena
RAI	Roll Attitude Indicator
RAL	Responsibility Assignment List
RALPH	Reduction & Acquisition of Lunar Pulse Heights
RALT	Radar Altimeter
RAM	Responsibility Assignment Matrix
	Random Access Memory
	Radar Absorbtion Material
RAMA	Recap And Movement Authorization
RANC	Radar Absorbtion Noise & Clutter
RANN	Research Applied to National Needs
RAPCON	Radar Approach and Control
RAS	Requirements Allocation Sheet
RATCC	Radar Air Traffic Control Center

RAU Remote Acquisition Unit
 Regional Acquisition Unit
 RAUIS Remote Acquisition Unit Interconnecting Station
 RAX Remote Access Computing System
 Remote Access Terminal
 RBC Rotating Beam Ceilometer
 RBMT Retrospective Bibliographies on Magnetic Tape
 RBN Radio Beacon
 R&CC Recorder & Communication Control
 RC Resistance-Capacitance
 Range Command
 Rotation Control
 Recurring Cost
 RCC Reinforcer Carbon-Carbon
 RCCB Remote Control Circuit Breaker
 RCCP Recorder and Communications Control Panel
 RCDR Recorder
 RCPT Receptacle
 RCN Requirements Change Notice
 RCR Retrofit Configuration Record
 RCS Reaction Control Subsystem
 RCSC Reaction Control Subsystem Controller
 RCVR Receiver
 RCVY Recovery
 R&D Research and Development
 R&DO Research and Development Operations (MSFC)
 RD Requirements Document
 Reference Designator
 RDA Remote Data Access
 Resident Data Area
 RDC Request for Document Change
 Reference Designator Code
 RDD Requirements Definition Document
 RDF Radio Direction Finder
 RDOC Reference Designation Overflow Code
 RDP Requirements Development Plan
 RDR Raw Data Recorder
 RDS Rocketdyne Digital Simulator
 RDT&E Research, Development, Test and Evaluation
 RDX Cyclotrimethylenetrinitramine
 RE Responsible Engineer
 REC Record
 RECP Request for Engineering Change Proposal
 RECS Representative Shuttle Environmental Control System
 RECT Rectifier
 REF Reference
 Refurbishment
 REG Regulator (Regulate)
 REI Runway End Identification
 REIL Runway End Identification Lights
 REI-M REI-Mollite
 REJ Reject
 REL Release

REM	Remove
	Roentgen Equivalent Man
REPL	Replace
REQ	Request
	Require
REQMT	Requirement
RESVR	Reservoir
RE&T	Research Engineering & Test
RETS	Reconfigurable Electrical Test Stand
REV	Reverse
	Review
	Revision
	Revolution
RF	Radio Frequency
RFA	Request For Action
	RF Authorization (Frequency)
RFB	Request For Bid
	Ready For Baseline
RFC	Request For Change
	Radio Frequency Charts
RFCP	Request For Computer Program
RFD	Requirements Formulation Document
RFE	Request For Estimate
RFEI	Request For Engineering Information
RFI	Radio Frequency Interference
	Request For Information
	Remote Facility Inquiry
	Remote File Inquiry
RFP	Request For Proposal
RFPA	Request For Proposal Authorization
RFQ	Request For Quotation
RFW	Request For Waiver (Deviation)
RGA	Rate Gyro Assembly
RGP	Rate Gyro Package
RH	Relative Humidity
	Right Hand
RHC	Rotation Hand Controller
RHCP	Right Hand Circular Polarization
RHEB	Right Hand Equipment Bay
RHL	Residual Hazards List
RHS	Rocketdyne Hybrid Simulator
RHT	Radiant Heat Temperature
RHU	Radioisotope Heater Unit
RI	Rockwell International
RIB	Recoverable Item Breakdown
RIC	Rockwell International Corporation
	Resistance Inductance and Capacitance
RID	Review Item Disposition
RIDI	Receiving Inspection Detail Instruction
RIF	Relative Importance Factor
RIG	Rate Integrating Gyro
RIGI	Receiving Inspection General Instruction

RIL	Recoverable Item List Repairable Item List Reparable Item List
RIR	Reportable Item Report
RIS	Reporting Identification Symbols
RISKAC	Risk Acceptance
RIT	Request for Interface Tool
RIU	Remote Interface Unit
RJC	Reaction Jet Control
RJD	Reaction Jet Device
RJDA	Reaction Jet Driver-Aft
RJDF	Reaction Jet Driver-Fwd
RJ/EC	Reaction Jet/Engine Control
RJOD	Reaction Jet OMS Driver
RLEO	Request Liaison Engineering Order
RM	Rescue Module Reference Mission Remote Manipulator
RMS	Remote Manipulator Subsystem Root Mean Square Radian Means Per Second Random Motion Simulator
ROC	Record Of Comments Request Of Change
ROM	Rough Order of Magnitude Read-Only Memory
ROT	Rotate Remaining Operating Time
R&P	Reserve and Process
R&PM	Research & Program Management
RP	Repair Period Rocket Propellant Relative Pressure
RPA	Request for Procurement Action (Authorization)
RPC	Remote Power Controller
RPE	Reliability Project Engineer
RPIE	Real Property Installed Equipment
RPL	Rated Power Level
RPM	Revolutions Per Minute
RPO	Radiation Protection Officer
RPP	Reinforced Pyrolytic Plastic
RPS	Revolutions Per Second Record and Playback Subsystem
RPT	Resident Provisioning Team
RPTA	Rudder Pedal Transducer Assembly
RPV	Remotely Controlled Vehicle
R&QA	Reliability & Quality Assurance
RQMTS	Requirements
R&R	Remove & Replace
RR	Requirements Review Rendezvous Radar
RRL	Rudder Reference Line
RRP	Rudder Reference Plane

RRT Rendezvous Radar Transponder
 RS Rawinsonde
 Refurbishment Spare
 Right Side
 RSD Requirements & Specifications Document
 RSF Refurbish & Subassemblies Facilities
 RSI Reusable Surface Insulator
 RSO Radiological Safety Office
 RSPL Recommended Spare Parts List
 RS&S Receiving, Shipping & Storage
 RSS Root Sum Square
 Reactants Supply System
 Range Safety System
 RSSPO Resident Space Shuttle Project Office
 RSU Remote Service Unit
 RT Reference Trajectory
 Real Time
 RTAC Research & Technology Advisory Committee
 RTB Resistance Temperature Bulb
 RTC Real-Time Command
 RTCC Real-Time Computer Center (NASA)
 Real-Time Computer Command (Uplink)
 RTCE Rotation/Translation Control Electronics
 RTCP Real-Time Communications Processor
 RTCS Real-Time Computer System
 RTD Resistance Temperature Device
 RTE Responsible Test Engineer
 RTG Radioisotope Thermal Generation
 RTHC Rotation-Translation Hand Controller
 RTHS Real-Time Hybrid System
 RTLS Return To Launch Site
 RTS Remote Tracking Station
 RTV Room-Temperature Vulcanized
 RUPT Interrupt
 Rupture
 RV Reentry Vehicle
 Recovery Vehicle
 Relief Valve
 RVCF Remote Vehicle Checkout Facility
 RVDT Rotary Variable Differential Transducer
 Rotary Variable Differential Transformer
 RVN Requirements Verification Network
 RVR Runway Visual Range
 RYD Real Year Dollars
 RZ Return-to-Zero

S	Second
	Side
	Stere
S*	Second (Astronomical Tables)
(S)	Safe (Task Classification)
S-BD	S-Band
S-N	Stress Number
S/A	Site Activation
	Subassembly
	Spacecraft Adapter
	Safe and Arm
	Scheduled/Actual
S/AC	Stabilization/Attitude Control
S/C	Spacecraft
	Software Contractor
	Subcontractor
	Stripchart (Recorder)
S/F	Safety Factor
S/G	Strain Gage
S/L	Shops & Labs
S/M	Service/Maintenance
S/N	Serial Number
	Signal-to-Noise Ratio
S/O	Shutoff
	Switchover
S/P	Signal Processor
	Serial to Parallel
S/R	Send and Receive
S/S	Samples-per-Second
	Single Sideband
S/Sys	Subsystem
S/V	Space Vehicle
S/W	Software
S&A	Science & Application
SA	Supplemental Agreement
	Shaft Angle
	Subaccount
SA-ALC	San Antonio Air Logistics Center (Was SAAMA)
SAAC	Schedule Allocation and Control
SAB	Storage and Assembly Building
SAC	Strategic Air Command (USAF)
SAD	System Allocation Document
	Shuttle Authorized Document
SAE	Society of Automotive Engineers
SAEF	Spacecraft Assembly & Encapsulation Facility
SAFE	San Andreas Fault Experiment

SAGE	Stratospheric Aerosol Gas Experiment
SAIL	Shuttle Avionics Integration Laboratory
SAL	Shuttle Avionics Laboratory
SAM	Shuttle Attachment Manipulator
SAMS	Shuttle Attachment Manipulator System
SAMSO	Space And Missile Systems Organization (USAF)
SAMTEC	Space And Missile Test Center (VAFB, CA)
SAND	Site Activation Need Date
SAP	Strain Arrestor Plate
SAR	Safety Analysis Report
SARP	Safety Analysis Report for Packaging
SAS	Stability Augmentation Subsystem
SAT	Saturated
SATO	Shuttle Attached Teleoperator
	Supply And Transportation Operations
SATS	Shuttle Avionics Test System
	Small Applications Technology Satellite
SAU	Strap Around Unit
SB	Space Base
	Synchronization Base
SBA	Structure Borne Acoustic
	Small Business Administration
SBCR	Stock Balance and Consumption Report
SBD	Schematic Block Diagram
SBHC	Speed Brake Hand Control
SC	Signal Conditioner
	Service Charge
	Scale
	Statement Capability
SCA	Shuttle Carrier Aircraft
	Schedule Change Authorization
	Sneak Circuit Analysis
SCAN	Selected Current Aerospace Notice
SCAPE	Self-Contained Atmospheric Protective Ensemble
SCARS	Serialized Control And Record System
SCAT	Storage, Checkout And Transport
SCB	Software Control Board
	Schedule Change Board
	Specification Control Board
	Selection Control Board
SCBR	Seller's Approved Configuration Baseline Document
SCC	Standard Cubic Centimeters
SCCH	Standard Cubic Centimeters per Hour
SCCM	Standard Cubic Centimeters per Minute
SCCS	Standard Cubic Centimeters per Second
SCD	Specification Control Document
	Source Control Drawing
	Specification Control Drawing
SCDA	Safing, Cool Down and Decontamination Area
SCDP	Simulation Control Data Package

SCDR	Shuttle Critical Design Review Seller Critical Design Review Subcontractor Critical Design Review Software Critical Design Review
SCDU	Signal Conditioning & Display Unit
SCE	Signal Conditioning Equipment
SCF	Satellite Control Facility Sequenced Compatibility Firing Standard Cubic Feet
SCFH	Standard Cubic Feet per Hour
SCFM	Standard Cubic Feet per Minute
SCFS	Standard Cubic Feet per Second
SCHEM	Schematics
SCIM	Standard Cubic Inches per Minute
SCIS	Standard Cubic Inches per Second
SCIT	Standard Change Integration and Tracking
SCL	Secondary Coolant Loop Specification Change Log
SCM	Subsystem Configuration Management
SCMP	System Contractor Management Plan
SCN	Specification Change Notice
SCO	Subcarrier Oscillator Start Checkout
SCOE	Special Checkout Equipment
SCOS	Subsystem Computer Operating System
SCP	Specific Candle Power
SCR	Sneak Circuit Report Software Change Request Schedule Change Request
SCS	Stabilization and Control Subsystem
SCT	Scanning Telescope
SCU	Secondary Control Unit
SD	Space Division (Rockwell) Specification Document
SDA	Source Data Automation
SDC	Spares Disposition Code Software Development Computer
SDCP	Summary Development Cost Plan
SDCS	SAIL Data Communications System
SDD	Software Description Document Shuttle Design Directive Software Design Document
SDE	Space Division Evaluator
SDF	System Development Facility (Breadboard) Single Degree of Freedom Software Development Handbook
SDH	Software Development Handbook
SDI	Selective Dissemination of Information
SDIF	Software Development & Integration Facility
SDL	Software Development Laboratory Standard Distribution List
SDM	System Definition Manual
SDN	Software Development Note
SDP	Software Development Plan

SDR	Software Design Requirement System Design Review Spacelab Disposition Record (ESA)
SDRB	Software Design Review Board
SDS	Shuttle Dynamic Simulation Software Design Specification
SDSS	Space Division Shuttle Simulator
SDT	Structural Dynamic Test
SDTA	Structural Dynamic Test Article
SDVF	Software Development & Verification Facilities
SE	Support Equipment System Element
SEA	Scanning Electrostatic Analysis Silicon Elastimeter Ablator
SEACF	Support Equipment Assembly & Checkout Facility
SEAID	Support Equipment Abbreviated Items Description
SEB	Source Evaluation Board
SEC	Secondary Second Sequential Events Controller Source Evaluation Committee
SECS	Shuttle Events Control Subsystem
SE/FAC	Support Equipment/Facility
SEG	System Engineering Groundrule
SE&I	Systems Engineering and Integration
SEI	Support Equipment Installation
SEICO	Support Equipment Installation and Checkout
SEM	Seller's Engineering Memo Space Environment Monitoring System Engineering Management
SEMS	Space Environment Monitor System
SEND	Shared Equipment Need Date
SEO	Special Engineering Order
SEOS	Synchronous Earth Observation Satellite
SEP	Separation Support Equipment Package
SEPAR	Shuttle Electrical Power Analysis Report
SEQ	Sequence
SER	Serial
SERB	Systems Engineering Review Board Shuttle Engineering Review Board
SERS	Shuttle Equipment Record System
SES	Shuttle Engineering Simulation Special Emphasis Study
SESL	Space Environmental Simulation Laboratory
SF	Static Firing Subcontractor Furnished Square Feet Safety, R&QA, and Protective Services (KSC Directorate)
SFACI	Software Flight Article Configuration Inspection
SFC	Specific Fuel Consumption
SFCS	Survival Flight Control System

SFL Secondary Freon Loop
 SFOP Safety Operating Procedure (KSC)
 SFP Single Failure Point
 SFPA Single Failure Point Analysis
 SFPPL Short Form Provisioning Parts List
 SFPS Single Failure Point Summary
 SFT Static Firing Test
 Simulated Flight Test
 SFTA Structural Fatigue Test Article
 SFTF Static Firing Test Facility
 SFU Standard Firing Unit
 SGLS Space Ground Link Station
 SGOS Shuttle Ground Operations Simulator
 SH2 Supercritical Hydrogen
 SHA Sidereal Hour Angle
 System Hazard Analyses
 SHAG Simplified High Accuracy Guidance
 SHERB Sandia Human Error Rate Bank
 SHF Super High Frequency
 SHLB Simulation Hardware Load Boxes
 SHP Shaft Horsepower
 SHRD Supplemental Heat Rejection Devices
 SI International System of Units
 Scientific Instrument
 SIA Software Impact Assessment
 SID System Interface Document
 Shuttle Integration Device
 SIE Shuttle Interface Equipment
 SIL Systems Integration Laboratory
 Sound Interference Level
 Silver
 SILTS Shuttle Infrared Leaside Temperature Sensing
 SIM Simulate, Simulation
 Scientific Instrumentation Module
 SIMAS Shuttle Information Management Accountability
 System
 SIMS Shuttle Inventory Management System
 Shuttle Imaging Microwave System
 SIN Sine
 SIO Systems Integration Office
 SIP Scientific Instrument Package
 SIR Systems Integration Review
 SIRR Software Integration Readiness Review
 SIS Software Implementation Specifications
 System Integration Schedule
 Software Integrated Schedule
 Shuttle Interface Simulator
 SIT Shuttle Integrated Test
 Software Integrated Test
 SIVE Shuttle Interface Verification Equipment

SL Spacelab
 Sea Level
 Sound Level
 Shelf Life
 SLA ERNO Spacelab Product Assurance Department
 SLAC Stanford Linear Accelerator Center
 SLAM Side Load Arrest Mechanism
 SLAR Side Looking Airborne Radar
 SLC ERNO Spacelab Project Control
 SLCA ERNO Spacelab Contract Administration
 SLCC ERNO Spacelab Configuration Management
 SLE ERNO Spacelab Engineering
 SL&I System Load and Initialization
 SLI ERNO Spacelab Integration & Test
 SLN ERNO Spacelab Payload
 SLO ERNO Spacelab Operations
 SPLB Spacelab Program Board
 SL-SS Spacelab Subsystem
 SL-SSS Spacelab Subsystem Segment
 SLS Secondary Landing Site
 Statement Level Simulator
 Sortie Lab Simulator
 SLT ERNO Spacelab Management
 SM Support Module
 Shuttle Management (KSC)
 Stable Member
 Systems Management
 Short Module
 SMAB Solid Motor Assembly Building
 SMC Scientific Manpower Commission
 SMCC Shuttle Mission Control Center
 SMD Special Measuring Device
 SMES Shuttle Mission Evaluation Simulation
 Shuttle Mission Engineering Simulator
 Superconducting Magnetic Energy Storage
 SMM Subsystem Measurement Management
 Solar Maximum Mission
 SMMD Specimen Mass Measurement Device
 SM/PM System Management/Performance Monitor
 SMPM Structural Materials Property Manual
 SMR Source, Maintenance and Recoverability (Code)
 SMRD Spin Motor Rotational Detector
 Spin Motor Run Discrete
 SMS Shuttle Mission Simulator
 Separation Mechanism Subsystem
 SMSI Standard Manned Space Flight Initiator (See NSI-I)
 SMVP Shuttle Master Verification Plan
 SMVRD Shuttle Master Verification Requirements Document
 SMW Standard Materials Worksheet
 SNF System Noise Figure
 SNSO Space Nuclear Systems Office
 SO Support Operations (KSC Directorate)
 SOAR Shuttle Orbital Applications and Requirements

SOARS	Shuttle Operations Automated Reporting System
SOATS	Support Operations Automated Training System
SOC	System Option Controller
SOCC	Satellite Operations Control Center
SODB	Shuttle Operational Data Book
SOF	Safety Of Flight
SOFI	Spray-On Foam Insulation
SOFT	Space Operations and Flight Techniques
SOH	Start of Heading
SOIS	Spacelab/Orbiter Interface Simulator
SOL	Solenoid
SOM	Standard Operating Manual
	Spares Optimization Model
	(NASA) Ship Operations Manager
SOP	Standard Operating Procedure
	Subsystems Operating Procedure
	Secondary Oxygen Pack
SOR	Specification Operational Requirement
SOT	Strap-On Tank
SOV	Shutoff Valve
	Solenoid Operated Valve
SOW	Statement Of Work
	Subdivision Of Work
SOX	Supercritical Oxygen
SP	Shuttle Projects Office (KSC)
	Solar Physics
	Single Pole
	Standard or Peculiar
SP-AP	Air Force STS Liaison Office (KSC Shuttle)
SPA	Shared Peripheral Area
	Signal Processor Assembly
	Space Processing Application
SPADS	Shuttle Problem Analysis Data System
SPART	Space Research and Technology
SPBK	Speed Brake
SPC	Shipping and Packing Cost
	Starting Point Code
SPD	Standard Practice Directive
SPDR	Software Preliminary Design Review
SPE	Static Phase Error
SPEC	Specification
SPECT	Spectrometer
SP-FGS	Flight & Ground Systems Office (KSC Shuttle)
SPF	Spacelab Processing Facility
SPFA	Single Point Failure Analysis
SPFP	Single Point Failure Potential
SPG	Single Point Ground
	Signal Point Ground
SPI	Surface Position Indicator
SPICE	Spacelab Payload Integration & Coordination in Europe
SP-ILS	Integrated Logistics Support (KSC Shuttle)
SPII	Shuttle Program Implementation Instruction

SPII	Shuttle Program Implementation Instruction
SPIMS	Shuttle Program Information Management System
SPL	Sound Pressure Level
	System Programming Language
SP-MPC	Management Planning and Control Office (KSC Shuttle
SPM	Subsystem Project Manager
SPMS	Special Purpose Manipulator System
SPN	Shuttle Project Notice (KSC)
SP-OPN	Operations Planning Office (KSC Shuttle)
SPO	Spare Parts Order
SP-PAY	Payload Integration Office (KSC Shuttle)
SPPIIL	Shuttle Preferred Pyrotechnic Items List
SPPL	Spare Parts Provisioning List
SPR	Software Problem Report
	Subcontractor Performance Review
SPRAG	STS Payload Requirements & Analysis Group
SPS	Samples Per Second
	Shuttle Procedures Simulator
	Service Propulsion Subsystem
	Statement of Prior Submission
	Secondary Propulsion System
SPTD	Supplemental Provisioning Technical Documentation
SQ FT	Square Feet
SR	Support Request
	Status Review
	Status Report
	Standard Repair
	Shift Register
SRA	Support Requirements Analysis
	Spin Reference Axis
SRB	Solid Rocket Booster
SRBAB	SRB Assembly Building
SRBDF	SRB Disassembly Facility
SRCB	Software Requirements Change Board
SRCBD	Software Requirements Change Board Directive
SRD	Shuttle Requirements Document
	Shuttle Requirements Definition
	Systems Requirements Document
SRDH	Subsystems Requirements Definition Handbook
SRF	Shuttle Refurbish Facility
SRH	Subsystems Requirements Handbook
SRM	Solid Rocket Motor
	Specification Requirements Manual
	Standard Reference Material
SRN	Software Release Notice
SR&Q	Safety, Reliability and Quality
SR&QA	Safety, Reliability and Quality Assurance
SRR	System Requirements Review
	Site Readiness Review
SRS	Software Requirements Specification
	Specification Revision Sheet
	Support Requirement System
SRSR	Schedule and Resources Status Report

SRT Supporting Research and Technology
 Specification Requirements Table
SRU Shop-Replaceable Unit
 Shop Replacement Unit
SS Space Shuttle
 Station Set
 Space Station
 System Specification
SS&A Space Systems and Applications
SSA Shuttle Simulation Aircraft
SSAT Shuttle Service and Access Tower
SSB Single Sideband
 Source Selection Board
SSBC Summary Sheet Bar Chart
SSC Subsystem Sequence Controller
 Shuttle System Contractor
 Solid-Solution Cermet
SSCA Surface Sampler Control Assembly
SSCHS Space Shuttle Cargo Handling System
SSCL Shuttle System Commonality List
SSCSP Space Shuttle Crew Safety Panel
SSDH Subsystem Data Handbook
SSE Subsystem Element
 System Support Equipment
SSFGSS Space Shuttle Flight & Ground System Specification
SSFL Santa Susana Field Laboratory
SSHB Station Set Handbook
SSI Significant Structural Item
SSIBD Shuttle System Interface Block Diagram
SSITP Shuttle System Integrated Test Plan
SSM Support System Module
 Subsystem Manager
SSME Space Shuttle Main Engine
SSMECA SSME Controller Assembly
SSO Safety Signification Operation
SSP Space Shuttle Program
 Small Sortie Payload
SSPD Shuttle System Payload Data
 Shuttle System Payload Definition Study
SSPDA Space Shuttle Payload Data Activity
SSPDS Space Shuttle Payload Data Study
SSPM Space Shuttle Program Manager
SSPO Space Shuttle Program Office
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 Station Set Requirement
 Shop Support Request
SSRD Station Set Requirements Document
SSRN System Software Reference Number
SSRR Station Set Requirements Review

SSS	Stage Separation Subsystem Station Set Specification Subsystem Segment
SSSS	Space Shuttle System Specification
SST	Structural Static Test
SSTC	Space Shuttle Test Conductor
SSUS	Spin Stabilized Upper Stage
SSV	Space Shuttle Vehicle
ST	Spacelab Technology Space Telescope Sequential Timer Star Tracker Structural Special Tooling
STA	Shuttle Training Aircraft Structural Test Article Static Test Article Station
STAB	Stablizer
STADAC	Station Data Acquisition and Control
STADAN	Space Tracking & Data Acquisition Network
STAG	Shuttle Turnaround Analysis Group
STAR	Shuttle Turnaround Analysis Report Scientific and Technical Report
STARR	Schedule, Technical And Resources Report
STC	Systems Test Complex Standard Test Configuration Satellite Test Center
STCP	Short Term Cost Plan
STD	Standard
STDN	Spaceflight Tracking and Data Network
STE	Special Test Equipment System Test Engineer
STF	Structural Fatigue Test
STG	Stage
STIL	Software Test and Integration Laboratory
STLOS	Star Line Of Sight
STM	Signal Termination Module
STN	Software Trouble Note
STP	Shuttle Technology Panel Subsystem Test Plan
STPH	Static Phase Error
STR	System Test Review
STRG	Steering
STRL	Structural
STRUC	Structure
STS	Space Transportation System
STSR	System Test Summary Report
STU	Special Test Unit
SU	Support Unit
SUMC	Space Ultrareliable Modular Computer
SUP	Supply
SURE	Shuttle Users Review and Evaluation

SV	Shuttle Vehicle
	Safety Valve
	Solenoid Valve
SVA&C	Shuttle Vehicle Assembly and Checkout
SVAB	Shuttle Vehicle Assembly Building
SVB	Shuttle Vehicle Booster
SVC	Supervisor Call
SVDS	Space Vehicle Dynamic Simulator
SVRR	Software Verification Readiness Review
SW	Short Wave
	Software
	Switcher (Switch)
	Solar Wing
SWA	Support Work Authorization
SWAD	Subdivision of Work Authorization Document
SWAT	Stress Wave Analysis Technique
SWOB	Salaries, Wages, Overhead and Benefits
SWP	Safe Working Pressure
SXT	Sextant
SYM	Symbol
SYMM	Symmetrical
SYN	Synchronous
	Synthetic
SYNC	Synchronize
SYS	System
SYSTRAN	Systems Analysis Translator

-T-

T	Test
	Time
T-	Time Prior to Launch
T-O	Takeoff
T/A	Turnaround
T/C	Termination Check
T/D	Touchdown
	Time Delay
T/E	Transporter Erector
T/L	Talk and Listen
T/R	Transmit-Receive
	Tape Recorder
	Transformer Rectifier
T/T	Terminal Timing
	Timing/Telemetry
T/TCA	Thrust/Translation Control Assembly
T/V	Thermal/Vacuum
T/W	Thrust-to-Weight

TA	Test Article Task Analysis Trunnion Angle Travel Authorization Time Actual
TAA	Technical Assistance Agreement
TAC	Total Average Cost Tactical Air Command
TACAN	Tactical Air Navigation
TACO	Test And Checkout Operations
TAEM	Terminal Area Energy Management
TAG	Technical Air-to-Ground
TAIR	Test Assembly Inspection Record
TALAR	Tactical Approach and Landing Radar
TAM	Thermal Analytical Model
TAP	Telemetry Acceptance Pattern Technical Achievement Plan Total Air Pressure
TAR	Test Action Requirement Test Agency Report Technical Analysis Request
TAS	Telemetry Antenna Subsystem True Airspeed Test Article Specification
TASPR	Technical And Schedule Performance Report
TAT	Total Air Temperature Turn Around Time
TB	Talk Back Terminal Base
TBA	To Be Added
TBD	To Be Determined To Be Developed
TBE	To Be Evaluated
TBN	To Be Negotiated
TBP	To Be Provided
TBS	Task Breakdown Structure To Be Specified To Be Supplied To Be Superseded
T&CD	Timing and Countdown
TC	Telecommunications Thermocouple Test Conductor (Controller) Temperature Compensating Traceability Code Tracking Camera Thrust Chamber Thermal Control
TCA	Thrust Chamber Assembly Translation Controller Assembly
TCC	Thermal Control Coating
TCD	Test Completion Date
TCG	Time Code Generator

TCI	Technical Critical Item
TCID	Test Configuration Identifier
TCMD	Transportation Control and Movement Document
TCN	Transportation Control Number
	Test Change Notice
TCOP	Test and Checkout Plan
TCP	Test Checkout Procedure
	Test Control Package
TCR	Thermal Concept Review
TCRSD	Test & Checkout Requirements Spec. Documentation
TCS	Thermal Control Subsystem
	Test Control Supervisor
	Test Control System
TCSSS	Thermal Control Subsystem Segment
TCTI	Time Compliance Technical Instruction
TCTO	Time Compliance Technical Order
TCU	Tape Control Unit
TD	Technical Directive
	Terminal Distributor
TDD	Task Description Document
TDM	Time-Division Multiplexing
TDP	Temperature and Dewpoint
TDR	Technical Design Review
	Technical Documentation Report
TDRS	Tracking and Data Relay Satellite
TDRSS	Tracking Data and Relay Satellite System
TD&SA	Telephone, Data & Special Audio
TDS	Test Data System
	Technology Demonstration Satellite
TDU	Time Display Unit
TDY	Temporary Duty
TE	Test Equipment
TEC	Test Equipment Center
TECH	Technician
TELCOM	Telecommunications
TEMP	Temperature
TEOS	Tetraethyl Orthosilicate
TEP	Technical Evaluation Panel
TER	Test Equipment Readiness
	Time Estimating Relationship
TERL	Test Equipment Readiness List
TF	Test Facility
	Test Fixture
TFC	Time From Cutoff
TFCSS	Triplex Flight Control Subsystem
TFE	Time From Event
TFI	Time From Ignition
TFL	Time From Launch
TFS	Telemetry Format Selection
TFU	Test Facility Utilization
TGA	Thermal Gravimetric Analysis
TGS	Telemetry Ground System
	Telemetry Ground Station

TGSE	Telemetry Ground Support Equipment
TGT	Target
THC	Translation Hand Controller
TI	Technical Integration
TIC	Technical Information Center
	Total Item Change
TIFS	Total Inflight Simulator
TII	Tooling Inspection Instrumentation
TL	Lot Traceability
	Thrust Level
TLC	Telecommand
TLM	Telemetry
TLS	Time Line Sheet
TLV	Transporter - Loader Vehicle
TM	Member Traceability
	Technical Management
	Traffic Model
TMB	Transportation Management Bulletin
TMC	Test Monitoring Console
TMF	Transporter Maintenance Facility
TMO	Tool Manufacturing Order
TMP	Terminal Panel
TMPV	Torquemotor Pilot Valve
TMU	Temperature Measurement Unit
TN	Technical Note
TO	Technical Order
TOC	Test Operations Center
	Test Operations Change
TOL	Tolerance
TOT	Total
TP	Transition Period
	Test Point
	Test Procedure
TPA	Test Preparation Area
TP&C	Thermal Protection and Control
TPE	Test Project Engineer
TPF	Tug Processing Facility
	Terminal Phase Finish
TPI	Terminal Phase Initiation
TPM	Technical Performance Measurement (system)
TPR	Test Problem Report
TPS	Thermal Protection Subsystem
	Test Preparation Sheet
TPUN	Test Procedure Update Notice
TR	Test Request
	Technical Report
	Transportation Request
TRA	Training Requirements Analysis
	Turnaround Requirements Analysis
TRACS	Tool Record Accountability System
TRB	Test Review Board
TRL	Test Readiness List
TRR	Test Readiness Review

TRS	Tug Rotational System
TRSD	Troubleshooting Record Sheet
TRSD	Test Requirements Specification Document
TS	Test Requirements Specification Document
	Serial Traceability
	Tensile Strength
	Test Site
	Technical Support
	Time Scheduled
TSA	Test Start Approval
TSAC	Tracking System Analytic Calibration
TSB	Twin Sideband
TSC	Test Setup Complete
TSD	Test Start Date
TSE	Transportation Support Equipment
TSEGP	Test Sequence Generator Program (ESTEC)
TSLD	Troubleshooting Logic Diagram
TSM	Trade Study Management
	Tail Service Mast
TSO	Time Since Overhaul
	Time Sharing Option
TSP	Test Software Program
	Twisted Shielded Pairs (Cables)
TSR	Technical Status Review
	Test Status Report
TSRA	Total System Requirements Analysis
TSS	Tug Structural Support
	Time Sharing System
TST	Test By Seller
TSW	Test Switch
TT	Thrust Termination
	Total Time
TTA	Thermomechanical Test Area
TTC	Tunnel Thermal Control
	Tracking, Telemetry and Control
TTCA	Thrust Translation Controller Assembly
TTCV	Tracking Telemetry, Command and Voice
TTEL	Tool and Test Equipment List
TTL	Transistor-Transistor Logic
TTU	Timing Terminal Unit
TTY	Teletype
TU	Technical Utilization
TV	Thermal Vacuum
	Television
	Thrust Vector
TVA	Thrust Vector Alignment
TVAR	Test Variance
TVC	Thrust Vector Control
	Thermal Vacuum Chamber
TVCD	Thrust Vector Control Driver
TVEXPIS	TV Experiment Interconnecting Station
TVN	Test Verification Network
TVP	Test Verification Program
TVS	Toxic Vapor Suit

TVSSIS	TV Subsystem Interconnecting Station
TVT	Thermal Vacuum Test
TVTAA	Thermal Vacuum Test Article
TWR	Tower
TWT	Trisonic Wind Tunnel
TWX	Teletype Wire Transmission
TX	Transmit Channel

-U-

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

USBE	Unified S-Band Equipment
USBS	Unified S-Band System
USEC	Microsecond
USNS	United States Navy Ship
USS	United States Standard
	United States Ship
UST	United States Testing (Company)
UT	Universal Time
	Unit Tester
UTC	United Technology Center
	Universal Test Console
UTE	Universal Test Equipment
UU	Micromicron
UUT	Unit Under Test
UV	Under Voltage
	Ultraviolet
	Microvolt
UVD	Under Voltage Device
UVF	Unmanned Vertical Flight
UW	Microwatt

-V-

V	Velocity
	Volt
	Voice
V-A	Vibro Acoustic
V/A	Video/Analog
V/C	Vector Control
V/H	Velocity-to-Height
VA	Volt Ampere
VAB	Vehicle Assembly Building
VAC	Volts, Alternating Current
	Vacuum
	Vehicle Assembly and Checkout
VAFB	Vandenberg Air Force Base
VAK	Vertical Assembly Kit
VAN	USNS Vanguard (STDN)
VAR	Variable (Variance, Variation)
	Verification Analysis Report
	Volt Ampere Reactive
VASI	Visual Approach Slope Indicator
VAST	Versatile Avionics System Tester
VAT	Vibro-Acoustic Test
VATA	Vibro-Acoustic Test Article
VATF	Vibration and Acoustic Test, Facility
VA/TVTA	Vibro-Acoustic/Thermal/Vacuum Test Article
VC	Vector Character
	Velocity Counter

VCB Vertical Location of the Center of Buoyancy
 VCG Vertical Location of the Center of Gravity
 VCI Velocity Change Indicator
 VCM Volatile Condensable Material
 VCO Voltage Controlled Oscillator
 VCT Voltage Control Transfer
 VCTR Vector
 VDC Volts, Direct Current
 VDS Vehicle Dynamics Simulator
 VDU Visual Display Unit
 VE Shuttle Engineering (KSC VO Directorate)
 VEEI Vehicle Electrical Engine Interface
 VEH Vehicle
 VERIF Verification
 VERT Vertical
 VF Vertical Flight
 VF Video Frequency
 VFI Verification Flight Instrumentation
 VFO Variable Frequency Oscillator
 VFR Visual Flight Rules
 VFT Vertical Flight Test (superseded by OFT)
 VGOR Vehicle Ground Operation Requirements
 VGP Vehicle Ground Point
 VGT Vehicle Ground Test
 VHF Very High Frequency
 VHF/AM Very High Frequency Amplitude Modulator
 VHF/DF Very High Frequency Direction Finder
 VIA By Means Of (By Way Of)
 VIB Vibration
 VID Video
 VIS Verification Information System
 Visibility
 VISC Viscosity
 VJ Vacuum Jacketed
 VL Expendable Vehicles (KSC VO Directorate)
 VLBI Very Long Baseline Interferometer
 VLF Very Low Frequency
 VLR Very Low Range
 VM Voltmeter
 Virtual Memory
 VMF Vertical Maintenance Facility
 VMS Velocity Measuring System
 VO Space Vehicle Operations (KSC Directorate)
 VOL Volume
 VOM Voltohmmeter
 VOR VHF Omnidirectional Radio Range
 VORTAC Variable Omni Range Tactical (VOR and TACAN)
 VOT VHF Omnitest
 VOX Voice Operated Transmitter
 VP Vertical Polarization
 Vacuum Pump
 Shuttle Payloads (KSC VO Directorate)
 V P-P Volt Peak-to-Peak

VPK	Volts Peak
VPM	Vehicle Project Manager
VR	Voltage Relay
	Video Recorder
VRB	VHF Recovery Beacon
VRP	Vertical Removal Fixture
VRL	Vertical Recovery Line
VRMS	Volts Root Mean Square
VRR	Verification Readiness Review
VS	Staging Velocity
VSA	Variable Stability Aircraft
VSI	Vertical Speed Indicator
	Video Simulation Interface
VSWR	Voltage Standing Wave Ratio
VT	STS Processing (KSC VO Directorate)
VTP	Vehicle Test Plan
	Verification Test Program
	Verification Test Plan
VTR	Video Tape Recorder
VTS	Vertical Test Stand
VTVM	Vacuum Tube Voltmeter
VTX	Vertex
VU	Volume Unit
VV	Vent Valve
VX	Velocity Along the X-Axis
VY	Velocity Along the Y-Axis
VZ	Velocity Along the Z-Axis

-W-

W	Watt
W/	With
W/B	Wideband
W/G	Water/Glycol
W/O	Without
W/S	Work Station
W/T	Wind Tunnel
WA	Work Authorization
WAD	Work Authorization Document
WAD/SO	Work Authorization Document/Shop Order
WAN	Work Authorization Number
WAR	Work Authorization Report
W&B	Weight and Balance
WB	Wet Bulb
WBS	Work Breakdown Structure
WBSC	Wideband Signal Conditioner
WBTS	Wideband Transmission System
W&C	Wire and Cable
WCCS	Window Contamination Control Number

WCDB	Work Control Data Base
WCP	Wing Chord Plane
WCS	Work Control System
WD	Work Days
	Width
	Wired Discrete
WG	Wave Guide
	Wing
WHL	Wheel
WHR	Watt-Hour
WIB	When Interrupt Block
WIF	Water Immersion Facility
WIP	Work in Progress
WL	Wavelength
WM	Waste Management
WO	Work Order
WOW	Weight-On-Wheels
WP	Working Pressure
	Work Package
WPAFB	Wright Patterson Air Force Base
WPC	Watts Per Candle
WPD	Work Package Description
WPF	Work Process Flow
WPG	Work Package Grouping
WPI	Work Progress Indicator
WPM	Words Per Minute
WPMCP	Work Package Manpower and Cost Plan
WPP	Work Package Plan
WPPS	Work Package Planning Sheet
WRG	Wiring
WRL	Wing Reference Line
WRO	Work Release Order
WS	Wind Shield
	Work Statement
WSCC	Work Station Control Center
WSMR	White Sands Missile Range
WSTF	White Sands Test Facility
WSU	Water Servicing Unit
WSWR	Variable Standing Wave Ratio (Rate)
WT	Weight
	Wire Ticket
WTA	Wire Traceability and Accountability
WTR	Western Test Range
WTSC	Wet Tantalum Slug Capacitor
WTT	Wind Tunnel Test
WUC	Work Unit Code
WW	Water Waste
WX	Weather

-X-

X	Times (By, Trans-)
XCVR	Transceiver
XDCR	Transducer
XFD	Crossfeed
XFER	Transfer
XLTN	Translation
XMT	Transmit
XPNDR	Transponder
XTAL	Crystal
X sub O	Orbiter Structural Body Reference, X-Axis
X sub P	Payload Structural Body Reference, X-Axis
X sub S	SRB Structural Body Reference, X-Axis
X sub T	ET Structural Body Reference, X-Axis

-Y-

Y	Yaw
	Horizontal Axis - Width of Vehicle
	Y-Axis, Horizontal - Width of Vehicle/Structure
YD	Yard
YP	Yield Point
YR	Year
YS	Yield Strength
YST	Yearly Spares Cost
YT	Station Identification Symbol
Y sub O	Orbiter Structural Body Reference, Y-Axis
Y sub P	Payload Structural Body Reference, Y-Axis
Y sub S	SRB Structural Body Reference, Y-Axis
Y sub T	ET Structural Body Reference, Y-Axis

Z	Zulu (Greenwich Mean Time - GMT) Zone
ZGT	Zero Gravity Trainer
ZI	Zone of Interior
ZO	Station Identification Symbol, Orbiter X-Axis
ZPN	Impedance Pneumogram
ZS	Station Identification Symbol, SRB Z-Axis
ZT	Station Identification Symbol, ET Z-Axis
Z sub O	Orbiter Structural Body Reference, Z-Axis
Z sub P	Payload Structural Body Reference, Y-Axis
Z sub S	SRB Structural Body Reference, Z-Axis
Z sub T	ET Structural Body Reference, Z-Axis