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



PREFACE

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

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

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

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

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

Thank you for your interest.

ATLAS-CENTAUR CLASS

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

ATTACHING PART

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

AUTOMATED PAYLOADS

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

AUXILIARY STAGE

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

AZIMUTH

True launch heading measured clockwise from 0° north.

SECTION I GLOSSARY

ACCELERATED LAUNCH DATE OPTION

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

ACCEPTANCE TESTS

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

AFT FLIGHT DECK

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

AIRLOCK

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

ANNOUNCEMENT OF FLIGHT OPPORTUNITY

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

ANNOUNCEMENT OF FLIGHT PERIODS

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

ASSEMBLY

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

BARBECUE MODE

Orbiter in slow roll for thermal conditioning.

BETA ANGLE

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

BILL OF WORK

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

CAPTURE

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

CARGO

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

CARGO BAY

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

CARGO BAY LINER

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

CARGO INTEGRATION REVIEW

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

CARGO INTEGRATION TEST EQUIPMENT

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

CERTIFICATE OF COMPLIANCE

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

CERTIFICATION

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

COMMANDER

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

COMMERCIAL PART OR ITEM

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

COMMON PAYLOAD SUPPORT EQUIPMENT

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

COMPONENT

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

CONCURRENT DELIVERY

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

CONDITION MONITORED

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

CONSTRUCTION AWARD

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

CONSTRUCTION COMPLETE

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

CONTRACT AWARD

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

CONTRACTOR

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

CORE SEGMENT

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

CREW ACTIVITY PLANNING

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

CUSTOMER (or USER)

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

DEADBAND

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

DEDICATED SPACELAB

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

DEEP SPACE NETWORK

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

DELTA CLASS

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

DEPLOYMENT

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

DESIGN CHANGE

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

DESIGN REVIEWS

Critical Design Review

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

Preliminary Design Review

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

30% Design Review

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

90% Design Review

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

DOWNWEIGHT

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

DRAWINGS

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

END ARTICLE/END ITEM

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

END ITEM

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

ESTIMATED ON DOCK (Date)

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

EUROPEAN SPACE AGENCY (ESA)

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

EXPERIMENT

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

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

EXPERIMENT RACKS

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

EXPERIMENT SEGMENT

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

EXPERIMENTER

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

EXTERNAL TANK

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

EXTRAVEHICULAR ACTIVITY

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

EXTRAVEHICULAR MOBILITY UNIT

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

FACILITY NEED DATE

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

FAILURE MODE, EFFECTS AND CRITICALITY ANALYSIS

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

FEDERAL ITEM IDENTIFICATION

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

FEDERAL SUPPLY CODE FOR MANUFACTURERS

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

FIRST MANNED ORBITAL FLIGHT

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

FLIGHT

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

FLIGHT CONTROL TEAM

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

FLIGHT DATA FILE

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

FLIGHT-DEPENDENT TRAINING

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

FLIGHT DESIGN

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

FLIGHT-INDEPENDENT TRAINING

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

FLIGHT KIT

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

FLIGHT MANIFEST

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

FLIGHT OPERATIONS PLANNING

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

FLIGHT PHASES

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

FLIGHT READINESS FIRING (FRF)

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

FLIGHT TYPES

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

FREE FLYER

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

FREE-FLYING SYSTEM

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

GENERAL-PURPOSE COMPUTER

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

GROUND SUPPORT EQUIPMENT (GSE)

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

HARDWARE DEVELOPMENT COMPLETE

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

IGLOO

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

INCLINATION

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

INDENTURE

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

INERTIAL UPPER STAGE

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

INITIAL DELIVERY

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

INITIAL OPERATIONAL CAPABILITY

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

INITIAL OUTFITTING/LAY-IN

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

INSTALLATION COMPLETE

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

IN-STORAGE MAINTENANCE

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

INSTRUMENT POINTING SUBSYSTEM

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

INTEGRATED LOGISTICS

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

INTEGRATION

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

INTEGRATION LEVELS

Level I

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

Level II

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

Level | | |

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

Level IV

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

INTERFACE

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

INTERFACE VERIFICATION

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

INTERIM RELEASE

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

INVITATION FOR BIDS

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

ITEM

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

K-FACTORS

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

- K₁ Engineering correction based on LRU complexity, greater than 1
- ${\rm K^{}_2}\,$ Total failure ratio to relevant failure, greater than 1
- ${\rm K^{}_{3}}\,$ Ratio of operating hours to flying hours
- ${\rm K_4}^{}$ Ratio of demands on supply systems to failures

$$\mathsf{MTBD} = \frac{\mathsf{MTBF}}{\mathsf{K}_1 \times \mathsf{K}_2 \times \mathsf{K}_3 \times \mathsf{K}_4}$$

LAUNCH AGREEMENT

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

LAUNCH PAD

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

LAUNCH PROCESSING SYSTEM

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

LAUNCH PROCESSING SYSTEM (LPS) SUPPORT AVAILABLE

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

LAUNCH-READINESS VERIFICATION

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

LAUNCH SITE SUPPORT MANAGER

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

LAUNCH SITE SUPPORT PLAN

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

LEVEL OF REPAIR ANALYSIS

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

LINE REPLACEABLE UNIT

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

LOAD FACTOR

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

LOGISTICS ENGINEERING ANALYSES

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

LONG DURATION EXPOSURE FACILITY

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

LONG LEADTIME ITEMS

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

MAINTAINABILITY (M)

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

MAINTENANCE

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

MAINTENANCE CONCEPT

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

MAINTENANCE ENGINEERING ANALYSIS

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

MAINTENANCE GROUND EQUIPMENT (MGE)

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

MAINTENANCE LEVELS

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

Organizational Level

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

Intermediate Level

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

Depot Level

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

MAINTENANCE TRAINING

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

MANAGEMENT CODING

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

MANNED MANEUVERING UNIT

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

MATERIAL SERVICE CENTERS (MSC)

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

MISSION

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

MISSION CONTROL CENTER

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

MISSION-DEPENDENT EQUIPMENT

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

MISSION-INDEPENDENT EQUIPMENT

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

MISSION KIT

Flight kit is the preferred term.

MISSION SPECIALIST

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

MISSION STATION

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

MIXED PAYLOADS

Cargo containing more than one type of payload.

MOBILE LAUNCH PLATFORM

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

MOBILITY AID

Handrails or footrails to help crew members move about the space-craft.

MODIFICATION COMPLETE

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

MODULE

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

MODULE EXCHANGE MECHANISM

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

MULTIMISSION MODULAR SPACECRAFT

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

MULTIPLE PAYLOADS

More than one separate payload carried in the cargo bay.

MULTIPURPOSE SPACELAB

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

MULTIPURPOSE SUPPORT GROUP

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

MULTIUSE MISSION SUPPORT EQUIPMENT

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

NADIR

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

NATIONAL STOCK NUMBER

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

OFF-LINE

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

OFF-LINE INTEGRATION

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

OFF-LINE MAINTENANCE

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

ON-CONDITION MAINTENANCE

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

ON-LINE INTEGRATION

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

ON-LINE MAINTENANCE

The maintenance function performed at the organizational level.

ON-LINE SPACE TRANSPORTATION SYSTEM

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

On-Line Shuttle

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

On-Line Spacelab

An activity encompassing a payload and its Spacelab.

On-Line Tug/IUS

An activity involving a payload and the Tug/IUS.

ON-THE-JOB TRAINING

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

OPERATIONAL CHECKOUT

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

OPERATIONAL READINESS DATE

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

OPERATIONS AND MAINTENANCE DOCUMENTATION (OMD)

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

OPERATIONS AND MAINTENANCE (OM) MANUALS

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

OPERATIONS PLANNING

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

OPERATOR NEED DATE

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

OPPORTUNITY MISSION

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

OPTIMUM REPAIR LEVEL

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

OPTIONAL FLIGHT SYSTEMS

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

ORBITAL FLIGHT TEST

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

ORBITAL MANEUVERING SUBSYSTEM

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

ORBITER

Manned orbital flight vehicle of the Space Shuttle system.

ORBITER PROCESSING FACILITY

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

OUTFITTING AWARD

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

OUTFITTING COMPLETE

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

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

PALLET

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

PALLET TRAIN

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

PAYLOAD

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

PAYLOAD CANISTER

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

PAYLOAD CARRIER

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

PAYLOAD CHANGEOUT ROOM

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

PAYLOAD DISCIPLINE TRAINING

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

PAYLOAD OPERATIONS CONTROL CENTER

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

PAYLOAD PREPARATION ROOM

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

PAYLOAD SPECIALIST

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

PAYLOAD STATION

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

PAYLOAD SUPPLIER

Owner/operator of any Space Shuttle payload.

PECULIAR PART

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

PHASED PROVISIONING

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

PILOT

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

PLANNING OPERATIONS MANAGEMENT TEAM

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

PRELIMINARY ENGINEERING REPORT-FINAL RELEASE

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

PRICED SPARE PARTS LIST

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

PRINCIPAL INVESTIGATOR

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

PROCUREMENT/FABRICATION COMPLETE

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

PROCUREMENT METHOD CODE

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

PROGRAM

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

PROGRAMMING CHECK LIST

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

PROVISIONING ACTIVITY

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

PROVISIONING PERFORMANCE SCHEDULE

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

PROVISIONING SCREENING

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

PROVISIONING SPECIFICATION

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

PROVISIONING TECHNICAL DOCUMENTATION (PTD)

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

QUALITATIVE REQUIREMENTS

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

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

QUANTITATIVE REQUIREMENTS

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

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

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

RACKS

Same as experiment racks.

REACTION CONTROL SUBSYSTEM

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

READY TO SUPPORT

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

REMOTE MANIPULATOR SYSTEM

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

REORDER POINT

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

REPAIR PARTS

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

REPAIRABLE ITEM

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

Note: Repairable status is determined after failure occurs.

REPARABLE ITEM

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

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

REQUEST FOR PROPOSAL (RFP)

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

RETRIEVAL

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

ROTATING SERVICE STRUCTURE

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

SAFETY TRAINING

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

SCHEDULED DELIVERY

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

SCHEDULED MAINTENANCE

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

SHARED EQUIPMENT NEED DATE (SEND)

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

SHARED FLIGHT

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

SHOP REPLACEABLE UNIT

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

SIMULATOR

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

SITE ACTIVATION NEED DATE (SAND)

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

SOLID ROCKET BOOSTERS

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

SOURCE, MAINTENANCE, AND RECOVERABILITY (SMR) CODE

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

SPACELAB

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

SPACE SHUTTLE

Orbiter, external tank, and solid rocket boosters.

SPACE TRACKING AND DATA NETWORK

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

SPACE TRANSPORTATION SYSTEM

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

SPACE TRANSPORTATION SYSTEM ASSOCIATED PAYLOAD

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

SPACE TUG

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

SPARE PARTS ORDER

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

SPARES

Those support items that are coded to be repairable (i.e., Reparable Items).

SPECIAL TOOLS, TEST EQUIPMENT & SUPPORT EQUIPMENT

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

SPINNING SOLID UPPER STAGE

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

STABILITY RATE

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

STANDARD PART

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

STATEMENT OF PRIOR SUBMISSION

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

STOWING

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

SUBASSEMBLY

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

SUPPLEMENTARY PROVISIONING TECHNICAL DOCUMENTATION (SPTD)

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

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

SUPPORT EQUIPMENT

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

SUPPORT EQUIPMENT INSTALLATION & CHECKOUT COMPLETE

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

SUPPORT ITEMS

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

SUPPORT REQUIREMENTS ANALYSIS

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

TILT/SPIN TABLE

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

TRACKING AND DATA RELAY SATELLITE SYSTEM

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

TRAINER

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

TRAINING REQUIREMENTS ANALYSIS

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

UNSCHEDULED MAINTENANCE

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

UPPER STAGE

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

UPWEIGHT

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

USER

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

UTILIZATION PLANNING

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

•

VALIDATION

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

VEHICLE ASSEMBLY BUILDING

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

VENDOR ITEM

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

WESTERN LAUNCH OPERATIONS DIVISION

NASA operation at Vandenberg Air Force Base.

WORK STATION

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

WORK UNIT CODE

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

ZENITH

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

SECTION II ACRONYMS & ABBREVIATIONS

Α

Α Acceleration

> Aft Alpha Ampere Analog Signal

A&A Advertise and Award A&E Architects and Engineering Architectural and Engineering

A&L Approach and Landing A&P Attitude and Pointing

A&PS Administration and Program Support (MSFC Directorate)

A&RC **Application and Resource Control**

A&TA Assembly and Test Area

A/A Air to Air

A/C Air Conditioning

Aircraft

Associate Contractor A/D Analog to Digital A/E **Activity Elements** A/F Air-to-Fuel Ratio A/FM Arm/Firing Mechanism

A/G Air to Ground A/L Approach/Landing

Airlock

Autoland

A/M Auto/Manual A/N Alpha-Numeric A/O Analog/Output

A/P Airport A/R As Required A/R Autoland Rollout

A/S Airspeed

Ascent Stage Auxiliary Stage

AA Accelerated Assemblies

Accelerometer Assemblies Accelerometer Assembly

Airplane Avionics
American Airlines
Associate Administrator
Angular Accelerometer

AA/AL Airplane Avionics/Autoland

Automatic Approach/Autoland

AA/SF Associate Administrator for Space Flight
AA/TDA AA for Tracking and Data Acquisition

AAA Astronaut-Actuated Abort

AACS Attitude and Antenna Control System

AADS Ascent Air Data System

AAE Abort Advisory Equipment

Aerospace Ancillary Equipment

Aerospace Auxiliary Equipment

AAFE Advanced Applications Flight Equipment
AAH Automated Attitude Hold (for MMU)

AAIR Advanced Atmospheric Sounder and Imaging Radiometer

AAP Airlock Adapter Plate

Analog Autopilot

AAS Abort Advisory System
AAT Activation Acceptance Team

AB Airborne

Auto-Beacon

Avionics Bay

ABA DC Amplifier, Buffer, Attenuator
ABC Automatic Brightness Control
ABCF As-Built Configuration File
ABCL As-Built Configuration List
ABCR As-Built Configuration Record

ABE Air-Based Electronics
ABERT Auto Bit Error Rate Test

ABM Acquisition Bus Monitor

Advanced Bill of Materials

Apogee Boost Motor

ABRT Abort (preferred over ABT)

ABRT REQ Abort Request ABS Absolute

ABS CLG Absolute Ceiling

ABT Abort

AC Aerodynamic Center

Applications Controller

Comptroller (KSC Directorate)

ac **Alternating Current**

ACA Altitude Controller Assembly

Annunciator Control Assembly

Attitude Controller Assembly

ACB Air Cushion Barge

ACC Accumulate

Automatic Control Console

Auxiliary Crew Compartment

ACCEL Acceleration

Accelerometer

ACCESS Accessory

ACCN Audit Central Control Network **ACCU** Award Central Control Unit

Audio Central Control Unit

ACCUM Accumulator

ACD **Access Control Document**

Accuracy Control Document

ACE Acceptance Checkout Equipment

Automatic Checkout Equipment

ACES Acceptance Checkout and Evaluation System

Acceptance Control Equipment Section Acceptance Control Equipment System Automatic Checkout Equipment Sequencer

Aerocontrol Electronics Unit

ACEU

ACI Age Controlled Item

ACIL Automatic Controlled Instrument Landing

ACIP Aerodynamic Coefficient Instrumentation Package

Aerodynamic Coefficient(s) Identification Package

ACK Acknowledge

ACL Allowable Container Load

Ascent Closed Loop

ACLC Adaptive Communication Live Controller
ACLS Automated Control and Landing System

ACM Acquisition Control Module

Activity Classification Number Allocated Configuration Management

Auxiliary Core Memory

ACMB Applications Configuration Management Board ACMS Automated Configuration Management System

ACN Ascension Island (STDN)
ACO Abort-Once-Around Cutoff

Acceptance Checkout

Administrative Contracting Officer

ACP Astronaut Control Panel

Audio Control Panel

ACPM Associate Contractor Program Manager

Attitude Control Propulsion Motor

ACPO Associate Contractor Project Office

ACPS Attitude Control Propulsion System (Subsystem)

ACPT Accept
ACQ Acquire

Acquisition

ACR Actual Cost Report

ACRS Advisory Committee on Reactor Safeguards

ACS Aft Crew Station

Alternating Current Synchronous Atmosphere Control System

Attitude Control System (IPS preferred)

Automated Control System

ACT Acquisition, Control of Test (Units)

Activate, Activation Actuate, Actuator

Actual

ACTA Active Test Article

ACTCS Active Thermal Control System

ACTIV Activation

ACTR Actuator ACTV Active

ACU Annunciator Control Unit
Avionics Cooling Unit

ACUO Avionics Cooling Unit Operator

ACV Air Cushion Vehicle

ACWP Actual Cost for Work Performed

AD Administrative Operations and Support Serv. (KSC DIr.)

Air Data

Air Density

ADA Air Data Assembly

Azimuth Drive Assembly

ADAP Adaptive Intercommunication Requirement

ADB Aerodynamic Data Book
ADC Air Data Computer

Analog-to-Digital Computer Analytic Drag Control

Adc Amperes Direct Current

ADCR Applicable Document Contractual Record

ADD Address ADDR Address

ADF Automatic Direction Finder

AUtomatic Display Finder
ADI Attitude Direction Indicator

Attitude Display Indicator

ADJ Adjust

ADL Avionics Development Laboratory (RI-SD)

ADP Acceptance Data Package

Air Data Probe

AUtomatic Data Processing
ADPA Air Data Probe Assemblies

ADPE Automatic Data Processing Equipment

ADR Address

ADS Air Data Sensor

Air Data System

Attitude Display System Audio Distribution System

ADT Air Data Transducer

ADTA Air Data Transducer Assembly

ADU Annunciator Display Unit AEB Aft Equipment Bay

AEC Aft End Cone

Aft Events Controller

Atomic Energy Commission

AED Analog Event Distributor

AEDC Arnold Engineering Development Center

AEDS Analog Event Distribution System
AEM Acoustical Emission Monitoring

AERO Aerodynamic Aerosurfaces

Atmospheric Flt Supt

AES Analog Event System

AET Aerosurface End-to-End Test

AETL Approved Engineering Test Laboratory

AF Aft Fuselage

Airframe Air Force

Audio Frequency
Airframe Assembly

AFAD Airframe Assembly
AFAD Armed Forces Acquisition Document

AFALD Air Force Acquisition Logistics Division (WPAFB)

AFB Air Force Base

AFC Aerodynamic Flight Control

Automatic Flight Control
Automatic Frequency Control

AFCE Automatic Flight Control Equipment
AFCS Automatic Flight Control System

AFD Aft Flight Deck

Assistant Flight Director

AFDCP Aft Flight Deck Control Panel
AFDO Aft Flight Deck Operator

AFDPDB Aft Flight Deck Power Distribution Box

AFEB Award Fee Evaluation Board
AFEC Award Fee Evaluation Committee

AFETR Air Force Eastern Test Range (ESMC preferred)

AFETRM Air Force Eastern Test Range Manual

AFF Acceptance and Ferry Flight

AFFTC Air Force Flight Test Center (Edwards AFB)

AFGWC Air Force Global Weather Center

AFI Automatic Fault Isolation
AFL Autoland Flight Tests

AFLC Air Force Logistics Command

AFM Air Force Manual

AFPD

AFO Announced Flight Opportunity

Announcement of Flight Opportunities Authorization for Program Development

AFR Air Force Regulation

AFRPL Air Force Rocket Propulsion Laboratory (EAFB)

AFS Air Force Standard

AFSC Air Force Systems Command
AFSCF Air Force Satellite Control Facility

Air Force Satellite/Spacecraft Control Facility

AFSIG Ascent Flight Systems Integration Group

AFSWC Air Force Special Weapons Center (Holloman AFB)

AFT Aerodynamic Flight Test

Atmospheric Flight Test

AFTA Acoustic Fatigue Test Article

Aft Frame Tilt Actuator

AFTEC Air Force Test and Evaluation Center

AFV Anti-Flood Valve
AG Artificial Gravity
Attitude Gyro

AGAA Attitude Gryo Accelerometer Assembly
AGAP Attitude Gyro and Accelerometer Package

AGC Aerojet-General Corporation

Automatic Gain Control

AGCA Automatic Ground Controlled Approach
AGCL Automatic Ground Controlled Landing

AGCU Air Ground Cooling Unit

Attitude Gyro Coupling Unit

AGE Aerospace Ground Equipment

Air/Ground Equipment

Automatic Ground Equipment

AGI Agreement Item
AGL Above Ground Level

AGL Absolute Ground Level

AGMC Aerospace Guidance and Metrology Center

AGO Santiago, Chile (STDN)

AGOES Advance Geosynchronous Observation Environment

Satellite

AGOSS Automated Ground Operations Scheduling System

(also AUTO-GOSS)

AGS Abort Guidance System

Antigravity Suit

AGVS Air/Ground Voice System

AH Attitude Hold Ah Ampere Hour

AHI Artificial Horizon Indicator
AHP Attitude Hold (Pitch Axis)

AHR Ablative Heat Rate

Attitude Hold (Roll Axis)

AHRS Attitude Heading Reference System

Al Action Item

Airspeed Indicator Altimeter Indicator Altitude Indicator Attitude Indicator

AIAA American Institute of Aeronautics and Astronautics

AICC Action Item Control Card
AICS Action Item Closeout Sheet
AID Abbreviated Item Description

Analog Input Differential Audit Item Disposition

AIDS Airborne Integration Data System

AIL Aileron

Avionnics Integration Laboratories

AILAS Automatic Instrument Landing Approach System

AILS Automatic Instrument Landing System
AIM Automated Information Management

AIP Avionics Integration Plan
AIR Action Item Report

Adaptive Intercommunication Requirement

AIS Action Item Sheet

Airlock Illumination Subassembly

Analog-In Single-Ended

AIST Agency of Industrial Science and Technology

AIU Abort Interface Unit

Avionics Interface Unit

AJ Assembly Jig
AKM Apogee Kick Motor

A/L Approach and Landing/Autoland

AL Airlock

AL/EMU Airlock/Extravehicular Mobility Unit

ALAS Approach Landing Autopilot System (Subsystem)

Automatic Landing Autopilot Subsystem

ALC Aft Load Controller

Air Logistics Center Audio Load Compensator

Automatic Level Control (Camera)

Automatic Light Control

ALCA Aft Load Control Assembly

Automatic Level Control Assembly

ALDO Activity Level Dependent Operations

ALE Airport Landing Equipment
Airport Lighting Equipment

ALERT Acute Launch Emergency Reliability Tip

ALGOL Algorithmic Language

ALIO Activity Level Independent Operations

ALM Alarm

ALPHA Angle of Attack (Pitch)

Right Ascension

ALPS Approach and Landing Procedures Simulator

ALS Advance Logistics System

Airlock System (ECLS)
Alternate Landing Site
Approach Landing System
Automatic Landing System

ALSA Astronaut Life Support Assembly
ALSE Astronaut Life Support Equipment
ALSS Airlock Support System (Subsystem)

ALT Alternate

ALT Altitude

Approach and Landing Test

ALTM Altimeter

ALTR Approach and Landing Test Requirement

ALU Arithmetic Unit
AM Actuator Mechanism

Administration and Management Operations (KSC Dir.)

Alpha Meter Ammeter

Amplitude Modulation Antenna Management

AMA Air Material Area (now Air Logistics Centers)

AMB Ambient

AMC Automatic Mixture Control
AMCA Aft Motor Control Assembly
AMCP ADL Master Control Program

AMDS Advanced Missions Docking Subsystem

AMEC Aft Master Events Controller

AMF Abort Motor Facility

Apogee Motor Firing

AMG Activation Management Group

AMI Absolute Memory Image

Airspeed Mach Indicator Alpha/Mach Indicator

AML Approved Materials List

AMLC Asynchronous Multiline Controller

AMOOS Advanced Maneuvering Orbit-to-Orbit Shuttle

AMP Ampere

AMPR Aeronautical Manufacturers Planning Report

Aeronautical Manufacturers Progress Report

AMPS Atmosphere, Magnetosphere, and Plasmas in Space

Atmospheric Magnetospheric Plasma System

AMPTE Active Magnetospheric Particle Tracer Explorers

AMR Atlantic Missile Range

AMRV Astronaut Maneuvering Vehicle
AMS Acoustic Measurement System

Actuation Mechanism Subsystem

Amplifier

AMS Amplifier Subsystem

AMST Advanced Medium STOL Transport

AMTAS Automatic Modal Tuning and Analysis System
AMTD Automatic Magnetic Tape Dissemination

AMTF Acoustic Model Test Facility
AMU Astronaut Maneuvering Unit

AN Army/Navy

ANA Air Force-Navy Aeronautical Bulletin

ANAL Analysis

ANC Active Nutation Control

ANCE Attitude Nutation Control Electronics

AND Air Force-Navy Aeronautical Design Standard

ANG Angle

ANIK Canadian Communications Satellite

ANL Analog

Automatic Noise Limiter

ANLG Analog
ANNUN Annunciator

ANRA Air Navigation Radio Aids

ANSI American National Standards Institute

ANT Antenna

Antigua (ETR)

AO Analog Output

Announcement of Opportunity

AOA Abort-Once-Around

Angle of Attack

AOCE Attitude and Orbit Control Electronics

AOCRD Acceptance and Operational Checkout Requirements

Document

AOCS Attitude and Orbit Control Subsystem
AOD Aircraft Operations Division (JCS)

Analog Output Differential

Assistant Operations Director

AOPM Airline Operations Planning Model
AOS Acquisition of Signal

AOT Actual Operating Time

Alignment Ontical T. I

Alignment Optical Telescope Avionics Operating Time AOT Avionics Overall Test

AP Access Panel

Air Pressure

Atmospheric and Space Physics

Attitude Processor

Procurement, Supply and Transportation (KSC Dir.)

APA Abort Programmer Assembly

Allowance for Program Adjustment

APC Advanced Propulsion Comparison Study

Aft Power Controller Armored Personnel Carrier Automatic Phase Control

APCA Aft Power Controller Assembly

APCC Atmospheric Pressure and Composition Control

APD Area Passive Dosimeter

APERT Aperture

API Air Position Indicator

APIF Automated Process Information File

APIRD Authorized Procurement Information Requirements

Description

APIRL Authorized Procurement Information Requirements List

APLAC Analysis Program Linear Active Circuits

APM Assistant Project Manager
APP Advanced Procurement Package

Approach

Approach Astrophysics Payload

Approved

Astrophysics Payload

APPE Automated Payload Processing Facility
APPLE Advanced Propulsion Payload Effects
APPS Auxiliary Payload Power System

APPX Appendix

APR Advanced Parts Release

APS Aft Propulsion System (Subsystem)

Attitude Propulsion Subsystem Automatic Processing System Auxiliary Power Subsystem

APSAP Auxiliary Propulsion System Aft Prod APSS Atmospheric Pressure Supply Subsystem APT Astronaut Preference Test

Automatic Programmed Tool

APTI Automatic Programmed Test Input

APU Auxiliary Power Unit

Auxiliary Propulsion Unit

APUS Auxiliary Power Unit Subsystem

APUT Auxiliary Power Unit Test
AQL Acceptance Quality Level
AR Acceptance Readiness
Acceptance Review

Atmospheric Revitalization

ARA Attitude Reference Assembly

AVVI Radar Altitude

ARABSAT Saudi Arabian Comm. Satellite
ARAP Astronaut Rescue Air Pack

ARC Ames Research Center (Moffett Field, CA)
ARCOMSAT Arab League Communications Satellite
ARCS Aft Reaction Control System (Subsystem)
ARFDS Automatic Reentry Flight Dygamics Simulator
ARIES Astronomical Radio Interferometric Earth Surveying

ARINC Aircraft Radio, Incorporated

ARMS Automated Resources Management System

ARN Additional Reference Number

ARP As-Run Procedure

ARPCS Atmospheric Revitalization Pressure Control System
ARPESH Accurate and Reliable Prototype Earth Sensor Head

ARPF Army Pulse Radiation Facility

ARR Array

ARRS Air Recovery and Rescue Service

ARS Air Rescue Science

Air Rescue Service Air Revitalization System

Atmospheric Revitalization System

Attitude Reference System

ARTCC Air Route Traffic Control Center

AS Ascent

Attitude Set

ASA Abort Sensor Assembly

ASA Adapter Service Area

Aerosurface Amplifier Aerosurface Servo Amplifier American Standards Association

Aerodynamic Surface Assembly and Checkout

ASAP Aerospace Safety Advisory Panel

As Soon as Possible

ASAS Aerodynamic Stability Augmentation Subsystem

ASB Airlock Stowage Bag

ASC Aerodynamics Surface Control

Aerosurface Control

Ascent

Automatic Sensitivity Control

ASC/ABT Ascent/Abort

ASAC

ASCE Airlock Signal Conditioning Electronics

ASCII American Standard Code for Information Interchange

ASCP Attitude Set Control Panel

ASCS Atmospheric Storage and Control Section

Attitude Stabilization and Control System

ASDE Aerosurface Driver Electronics
ASDM Aerosurface Driver/Monitor

ASDTIC Analog Signal to Discrete Time Interval Converter

ASE Advanced Space Engine

Airborne Support Equipment Automatic Support Equipment

ASED Avionics Systems Engineering Division (JSC)

ASF Atmospheric Science Facility
ASG Avionics Subsystem Group

ASI Airspeed Indicator

Amended Shipping Instructions Augmented Spark Igniter Augmented System Ignition Amplitude Shift Keying

ASK Amplitude Shift Keying
ASKA Automatic Systems for Kinematic Analysis

ASL Above Sea Level

ASLU Antenna Select Logic Unit
ASM Assembler Language

ASME American Society of Mechanical Engineers

ASO Ammonia System Operations

Aviation Safety Office

ASP Activity Scheduling Program

Aerosurface Position
Airborne Science Program

Aspirator

ASPI Aerosurface Position Indicator

ASPP Atmospheric and Space Plasma Physics

ASPSL ASPP Sortie Laboratory

ASQC American Society for Quality Control

ASR Air/Sea Rescue

Automatic Speech Recognition

Avionics System Review

ASRM Abort Solid Rocket Motor
ASS Airlock Support Subsystem

ASSESS Airborne Science Shuttle Experiments System Simulation

Airborne Science/Spacelab Experiment System

ASSY Assembly AST Astronomy

ASTD Advanced Space Technology Division
ASTF Aeropropulsion System Test Facility

ASTG Aerospace Test Group

ASTIA Armed Services Technical Information Agency (now DDC)

ASTM American Society for Testing Materials

ASTR Astronomy

ASTS Avionics System Test Specification

ASYM Asymmetry AT Action Time

Automatic TAEM

AT&T American Telephone & Telegraph

ATA Abort Timing Assembly

Air Transport Association

Avionics Test Article

ATC Ablative Thrust Control

Air Traffic Control
Air Training Command

ATE Computer

ATCA Attitude Translation Control Assembly
ATCS Active Thermal Control Subsystem

Aerothermodynamic Data Book **ATDB**

Airborne Test Equipment ATE

Automatic Test Equipment

Automatic Terminal Information System ATIS

Advanced Technology Laboratory ATL

Abbreviated Test Language for Avionics Systems **ATLAS** Apollo Telescope Mount

Atmosphere

Auxiliary Tape Memory

Abort-to-Orbit ATO

ATM

Acceptance Test of Launch Language ATOLL

Acceptance Test Procedure **ATP**

Activation Test Program Authority to Proceed

Alpha Temperature Probe Assembly **ATPA**

Air Transport Radio ATR

Air Transport Rating Air Transportation Rack

Acceptance Test Specification **ATS**

Administrative Terminal System Advanced Technology Spacecraft

Analog Tone Signal

Applications Technology Satellite Asynchronous Task Storage Automatic Terminal System

Acceptance Thermal Test (Testing) ATT

Attitude

Attenuation **ATTEN**

Automatic Telemetry Tracking System **ATTS**

Audio Terminal Unit ATU Audio Thermal Unit

Ascent Thrust Vector Control **ATVC**

Ascent Thrust Vector Controller **Automatic Thrust Vector Control**

Ascent Thrust Vector Control Driver **ATVCD**

Accounting Unit ΑU

Addressable Unit

Aft Utility Bridge **AUB**

AUD Audio AUG Augment

AUST DOMSAT Australian Communication Satellite

AUT Automatic AUTO Automatic

AUTO-GOSS Automated Ground Operations Scheduling System

(also AGOSS)

AUTODIN Automatic Digital Network

AUTOLAND Automatic Landing

AUX Auxiliary AV Average Value

Avionics

AV BAY Avionics Bay

AVC Automatic Volume Control

AVE Atmospheric Variability Experiment

Avenal (TACAN Station)

AVG Average

AVL Address Validity

Avionics Verification Laboratory

AVO Avoid Verbal Orders

AVSM Auxiliary Video Switch Matrix
AVSR Avionics Verification Status Room
AVT Acceptance Vibration Testing
AVVI Altimeter Vertical Velocity Indicator

Altitude/Vertical Velocity Indicator

AW Airlock Wall

Assembly Workstand

AWCS Agency-Wide Coding Structure

Automatic Work Control System

AWG Activation Working Group

American Wire Gage

AWL Automated Wire List
AWS Air Weather Service

American Welding Society

Automated Wiring System

AZ Azimuth

AZS Automatic Zero Set

B Bit

B&P Budgetary and Planning

B&W Black and White

B-1 DIV B-1 Division (Rockwell)

B/A Bank Angle

Barometric Altimeter Buffer Amplifier

B/C Bench Check

B/L Baseline

B/O Booster Orbiter

Breakout Burnout

B/SC Brake Skid Control
B/sec Bits per Second
B/SMPL Bits per Sample

B/U Backup
B/V Bleed Valve
B/W Black and White
BA Bank Angle

Breathing Air

BAC Boeing Aircraft Company

Booster Assembly Contractor

Buffer Access Card

BACS Body Axis Coordinate System
BAI Barometric Altitude Indicator

BAIR Breathing Air
BAL Balance

BAN Budget Allocation Notice

BARB Ballast Aerating Retrieval Boom

BARO Barometer

BARS Baseline Accounting and Reporting System

BASD Ball Aerospace Systems Division
BASS Backup Avionics System Software

BATT Battery
BB Breadboard

BBC Before Business Clearance

BC Battery Charger

Binary Counter

Bus Coupler

BCCT Break Control Command Transducers

BCD Binary Coded Decimal
BCE Backup Control Electronics

Bus Control Element

BCFS Backup Flight Control System
BCH Binary Coded Hexadecimal

Bose-Chaudhuri-Hocquenghen (Computer Code)

BCN Beacon

BCP Base Condemnation Percent

Benchmark Control Point

BCR Bar Chart Report

BCRD Basic Consolidated Requirements Document

BCRT Binary Code Range Time
BCT Bus Configuration Table

BCU Bus Control Unit

BCWP Budget Costs for Work Performed BCWS Budget Costs for Work Scheduled

BD Band

Binary Decoder Binary Digit Binary Discrete

Board

BDA Backup Drive Amplifier

Bermuda Island Bermuda (STDN) Blast Danger Area

BDC Bi-Directional Converter

Bit Error Rate

BDCF Baseline Data Collection Facility
BDCR Baseline Document Change Request
BDD Baseline Definition Document

BDT Block Data Transfer

BDY Body BDYFLP Body Flap

BECO Booster Engine Cutoff

BER Bit Error Rate

BESS Biological Experiment Scientific Satellite

Biomedical Experiment Scientific Satellite Biomedical Experiment Support Satellite

BEST Booster Exhaust Study Test
BET Best Estimate of Trajectory

BETA ANGLE Sideslip Angle
BF Beat Frequency

Body Flap

BFC Backup Flight Control

Backup Flight Controller

Body Flap Control

BFCS Backup Flight Control System

BFL Back Focal Length

Bakersfield (TACAN Station)

BFO Beat Frequency Oscillator

BFRP Boron Fiber Reinforced Plastics

BFS Backup Flight System
BH/MP Breather Hose/Mouthpiece

BHD Bulkhead

BHN Brinell Hardness Number
BHP Brake Horsepower
BHS Base Heat Shield
BIO BIO Research Module

Biological

BIOMED Biological Medicine (Medical)
BIS Biocide Injection System

BIT Binary Digit
Built-in Test

BITE Built-in Test Equipment
BIU Buffer Interface Unit

Bus Interface Unit

BK Back

Brake

BKHD Bulkhead

BKNO₃ Boron Potassium Nitrate

BLDG Building
BLDN Blowdown

BLK Block

BLOW Booster-Lift-Off Weight

BLR Boiler

BLS Bottom Left Side BLV Bleed Valve

BLWR Blower

BM Basal Metabolism

Body Mounted

BMA Body-Mounted Accelerometer
BMAG Body-Mounted Attitude Gyro

BMAP Buffer Map

BMB Base Maintenance Building
BME Bench Maintenance Equipment
BMFT German D-1 Spacelab Payload
BMMD Body Mass Measuring Device
BMS Background Measurement Satellite

BMU Bus Monitor Unit
BN Ballistic Number
BO Breakout Box
BOB Best on Best

BOD Beneficial Occupancy Date

BOE Break of Entry
BOF Beginning of File
BOI Break of Integrity
BOM Beginning of Month

Bill of Materials

BOP Baseline Operations Plan

BOPACE Boeing Plastic Analysis Capability for Engines

BOS Backup Operating System

Bright Object Sensor

BOT Beginning of Tape

BOTSWANA (STDN)

BOW Bill of Work
BP Back Pressure

Bandpass Barber Pole Blood Pressure Boilerplate BPD Baseline Program Documentation

BPI Bits per Inch
BPM Beats per Minute

BPMS Blood Pressure Measuring System

BPR Bypass Ratio
BPS Bits per Second
BPT Body Point
BPV Bipropellant Valve

BR Bit Rate

BRAVO Business Risk and Value of Operation in Space

BRCS Basic Reference Coordinate System

BRG Bearing BRK Brake BRKT Bracket

BRM Biological Research Module
BRPM Breath Rate per Minute
BRRS Banana River Repeater Station

BRS Bottom Right Side

BRT Bright

BS Block Specification
BSC Brake Skid Controller

BSDP Booster Stage Discharge Pressure
BSE Booster Systems Engineer
BSI Basic Shipping Instructions

Boeing Services International, Inc.

BSM Booster Separation Motors
BSR Basic System Release

Bite Status Register

BSRM Booster Solid Rocket Motor
BSS Backup System Services

BSTR Booster

BT Burn Time (Engine)
BTC Binary Time Code
Bus Tie Contractor

Body Temperature Measuring System

BTR Boom Time Remaining

Burn Time Remaining

Bus Transfer

BTMS

BTU Bus Terminal Unit
Btu British Thermal Unit

BU Backup

BUC Backup Computer

Buckhorn, CA (GSTDN)

BUFF Buffer

BUOU Backup Optical Unit

BUR Backup Rate
BW Bandwidth

Bridgewire

BX Box

BY Budget Year

BYP Bypass

C Candle

Capacitance
Celsius
Centigrade
Coefficient
Complete
Constant
Cycle

One Hundred

C&D Control and Display

C&DH Command and Data Handling
C&DS Command and Data Simulator

C&M Control and Monitoring

C&T Communication and Tracking

C&TSS Communication and Tracking Subsystem

C&W Caution and Warning

C-BD C-Band

C-Band 3900 to 6200 MHz C-C Carbon-Carbon

C-to-C Computer-to-Computer C/C Combustion Chamber

C/D Countdown

C/F Center Frequency

C/L Checklist

Closed Loop

C/O Changeout

Checkout

Contamination/Overpressure

Cutoff

C/P Cold Plate

C/R Commutation Rate
C/S Counts per Second

C/SCSC Cost/Schedule Control Systems Criteria

C/W Carrier Wave

Caution and Warning

CA California

70

CA Carrier Aircraft

Cone Angle

Contingency Abort Contract Award Corrective Action Cost Account

CAB Cabin

Cabinet

Civil Aeronautics Board

Cost Audit Board

CACB Center Aisle Connector Bracket

CACC Communications and Configuration Console

CACON Cargo Container

CAD Computer Aided Design

CADE Controller/Attitude-Direct Electronics

CADS Command and Data Simulator

CADSI Communications and Data Systems Integration

CADU Control and Display Unit CAL Calibrate, Calibrate

Cornell Aeronautical Laboratory

cal Calories CALC Calculate

CAM Carrier Aircraft Modification

Computer Aided Manufacturing Computer Annunciation Matrix Content Addressable Memory

CAMR Camera

CAPCOM

CAN Certification Analysis Network

CAP Capacitor, Capacity

CCMS Application Programs
Computer Application Program
Contractor Acquired Property

Cost Account Package Crew Activity Plan Capsule Communicator

CAPRI Captive Reset Ignitor
CAPS Common Attitude Pointing System

CAPSIM Captive Simulation

CAR Certification Approval Request

Configuration and Acceptance Review

Corrective Action Request

CARID Customer Acceptance Review Item Disposition

CARR Customer Acceptance Readiness Review

CAS Calibrated Airspeed

Command Augmentation System Control Augmentation System

CASO Cancellation Addendum Sales Order
CASP CDS Application Support Programs
CASS CITE Augmentation Support System

CATEG Category

CAU Command Acquisition Unit

Command Activation Unit
Customer Acquisition Unit

CAUT Caution

CB Center of Buoyancy

Circuit Breaker

Constant Bandwidth
Circuit Breaker (ac only)

CB/ac Circuit Breaker (ac only)
CB/dc Circuit Breaker (dc only)
CBA C-Band Transponder Antenna

CBC Complete Blood Count

CBE Connector Bracket, Experiment
CBIL Common and Bulk Items List
CBP Connector Bracket Power

CBrF₂ Bromotrifluoromethane (Fire-Extinguishing Material)

CBS Connector Bracket Signal
CBSA Cargo Bay Stowage Assembly

CBV Cabin Bleed Valve
CBW Constant Bandwidth
CBX C-Band Transponder
CC Carbon-Carbon

Channel Controller

Chief Counsel (KSC Directorate)

Communications Control

Cost Center

Crew Compartment

CC Crew(s) Certified

CCA Communications Carrier Assembly

Contract Change Authorization
Coolant Control Assembly

Contract Change Authorization

CCAFS Cape Canaveral Air Force Station

CCATS Command, Communication, and Telemetry System

(Subsystem)

CCB Change Control Board

Configuration Change Board Configuration Control Board

CCBD Configuration Control Board Directive

CCC Central Computer Complex

Communication(s) Control Console

Complex Control Center
Contaminant Control Cartridge
Controller Checkout Console

CCD Charge Coupled Device

Checkout Command Decoder Constants Change Display

CCDR Contractor Critical Design Review
CCE Computer Command Engineer
CCF Converter Compressor Facility
CCFF Cape Canaveral Forecast Facility
CCIM Command Computer Input Multiplexer
CCIR International Radio Consultative Committee

CCL Closed Circuit Loop

Commonality Candidate List Configuration Control Logic

CCM Controlled Carrier Modulation

Crew/Cargo Module

CCME Contract Change Mass Estimate

CCMS Checkout, Control, and Monitor Subsystem (LPS)

Command Control and Monitor System

CCN Contract Change Negotiation

Contract Change Notice

CCOH Corrosive Contaminants, Oxygen, and Humidity

CCP Center Console Panel

CCP Charge Capacitance Probe

Commercial Change Proposal Computer Control Panel Configuration Change Point Configuration Control Panel Configuration Control Phase Contract Change Proposal Cost Control Program

CCR Contractor Change Request

Control Center Rack

CCRA Cape Canaveral Reference Atmosphere

CCRF Consolidated Communication Recording Facility

CCS Central Control Section

Central Control Station

Command and Communication System Command and Control Subsystem

Complex Control Set Computer Core Segment

Console Communication System
Contamination Control System
Computer Compatible Tage

CCT Computer Compatible Tape
CCTV Closed Circuit Television
CCU Camera Control Unit
Central Control Unit

Crewman Communications Umbilical

CCV Chamber Coolant Valve

CCVA Chamber Coolant Valve Actuator

CCW Counterclockwise

CD Candella (Luminous Intensity)

Center Director (KSC Directorate)

Coefficient of Drag

Command Decoder MDM

CDA Command and Data Acquisition

Critical Design Audit

CDB Central Data Buffer

Command Data Base

CDBFR Common Data Buffer
CDC Confined Detonating Cord

CDC Countdown Clock

CDDT Countdown Demonstration Test

CDF Cable Distribution Frame

> Central Data Facility Circuit Design Fabrication Confined Detonating Fuse

Cool-Down Facility

CDF&TDS Circuit Design, Fabrication, and Test Data Systems

CDH Constant Delta Height CDI Course Deviation Indicator Communications/Data Manager CDM

CDMS Command and Data Management Subsystem

CDN **CDR** Discrepancy Notice

CDNR CDR Discrepancy Notice Record

CDP Command Data Processor

CDPIS Command Data Processing and Instrumentation System

CDQR Critical Design and Qualification Review CDR Cleaning, Decontamination Request

Commander

Critical Design Review

CDRL Contract Data Requirements List

CDRR Contract Documentation Requirements Records

CDS Central Data Subsystems (LPS)

> Central Data System Closeout Door System Collision Detector System Control Data Corporation Control Data System

CDSC Communications Distribution and Switching Center

CDT Central Daylight Time

Command Descriptor Table Compressed Data Tape Configuration Data Table

Countdown Time

CDU Computer Display Unit

Control and Display Unit Coupling Data Unit Coupling Display Unit **CRT Display Unit**

CDW Command Data Word CDW Computer Data Word CE Change Evaluation

Civil Engineering
Control Element
Cost Element

Current Expendable

CEA Control Electronics Assembly (for MMU)

CEC Control Encoder Coupler

CECP Compatibility Engineering Change Proposal

CEDC Cyclic Error Detection Code
CEI Configuration End Item

Contract End Item

CEIAC Coastal Engineering Information Analysis Center

CEIT Crew Equipment Integration Test

Crew Equipment Interface Test

CEQ Council on Environmental Quality
CER Cost Estimating Relationship

CERT Certification

CES Control Electronics System

Crew Escape System

CF Carrier Frequency

Center Forward
Centrifugal Force

CFD Converter, Frequency to dc Voltage
CFE Contractor Furnished Equipment

CFES Continuous Flow Electrophoresis System

CFI Card Format Identifier
CFM Cubic Feet per Minute

Customer Furnished Material

CFMF Crip Flow Management Facility
CFP Conceptual Flight Profile
CFR Code Federal Regulation

CFRP Carbon Fiber Reinforced Plastics

CFSTI Clearinghouse for Scientific and Technical Information

(now NTIS)

CFT Common Facilities Test
CFY Company Fiscal Year
CG Center of Gravity

CGAU Cabin Gas Analysis Unit CGC Command Guidance Computer **CGP** Central Grounding Point

CGSS Cryogenic Gas Storage Subsystem

CH Channel CH Methane CHAN Channel CHAR Character

CHCS Cabin Humidity Control Subsystem

CHG Change Charge **CHGR** Charger

CHL Certified Hardware List

Channel

CHMBR Chamber

CHR Cooper-Harper Rating

CHUTE **Parachute**

CHX Cabin Heat Exchanger CI Certification Inspection

> Color Interior Film Configuration Inspection Configuration Item Continuous Interlock

Crew Interface

CIA Control Interface Assembly

CIAP Climatic Impact Assessment Program

CIB Change Impact Board

> Change Implementation Board Command Interface Control

CIC Control and Information Center

CICC Cargo Integration Control Center CICU Computer Interface Conditioning Unit

Computer Interface Control Unit

CID Computer Interface Device CIDL Configuration Item Data List CIDR Critical Intermediate Design Review CIE Communications Interface Equipment CIF Central Instrumentation Facility

Cable Integrity Group CIG

Communications and Interface Group

Critical Items List CIL

Computer Input Multiplexer CIM Change Identification Number CIN Cargo Integration Review CIR

> Circle Circulate

Configuration Inspection Report

Circularization Burn, OMS2 CIRC

Circumference CIRCUM

Critical Items and Residual Hazards List CIRHS

Central Integration Site CIS

Change Impact Summary

Communication Interface System Component Identification Sheet Contractor's Information Submittal

Centaur Integrated Support Structure CISS

Critical Item Tag CIT

Cargo Integration Test Equipment CITE

Computer Interface Unit CIU Controller Interface Unit

Cargo Interface Verification Test

CIVT

Check CK

Cape Kennedy Air Force Station (Changed to CCAFS) **CKAFS**

CKPT Checkpoint

Cape Kennedy Reference Atmosphere (Changed to CCRA) **CKRA**

Checks **CKS** Circuit CKT Centerline CL Close (Closed)

Closed Loop

Closed Loop Contro! Logic

Cluster

Coefficient of Lift Classification

Class Change Letter Control

Closed Loop Dynamic Stability Test CLDST

CLC

CLG Ceiling

CLIP Combined Laser Instrumentation Package

CLM Care Logic Module

CLMC Central Logistics Management Center

CLNR Cleaner CLR Clear

CLRB Cost Limit Review Board
CLS Contingency Landing Site(s)

CLSO Contingency Landing Support Officer

CLT Closed Loop Test
CM Cargo Management
Center of Mass

Configuration Management

Consumables Management

Control Monitor Crew Module Centimeter

CM&S Communications Maintenance and Storage
CMA Configuration Management Accounting
CMACS Central Monitor and Control System
CMAO Contract Management Assistance Officer

CMAT Compatible Materials (List)
CMC Crew Module Computer

Command Module Computer

CMD Command

cm

CMD DCDR Command Decoder
CMG Control Moment Gyro

CMM Condition Monitored Maintenance

CMN Crewman

CMO Configuration Management Office
CMOS Complementary Metal Oxide Silicon
CMP Configuration Management Plan

CMPR Compare
CMPRT Compartment
CMPTD Computed
CMPTR Computer

CMPTR ACTY Computer Activity

CMRB Center Materials Representative
CMRB Contractor Material Review Board

CMRR Common Mode Rejection Ratio

CMS-2 Cambridge Monitoring System (IBM Computer Program)
CMSI Checkout/Control and Monitor Subsystem Interface

CMTS Computerized Maintenance Test System

CMV Common Mode Voltage

CN Change Notice CNDS Condensate

CNRL Communications and Navigation Research Laboratory

CNSL Console
CNTL Control
CNTR Counter
CNTRL Control
Controller

CNWDI

Critical Nuclear Weapons Design Information

CO Cargo Operations (KSC Directorate)

Change Order Contracting Officer

Cutoff

CO₂ Carbon Dioxide

COA Center Operations Area

COAS Course Optical Alignment Sight

Crew(man) Optical Alignment Sight

COAX Coaxial, Coaxial Cable

COB Communications Office Building
COBE Cosmic Background Explorer

COBOL Common Business Oriented Language

COC Close-Open-Close

COD Center Operations Directorate (JSC)

COE Corps of Engineer

C of F Construction of Facilities

Cost of Facilities

COFI Checkout and Fault Isolation (on Board)

COFR Certificate of Flight Readiness
COFW Certificate of Flight Worthiness

COI Coast Orbital Insertion

COIM Checkout Interpreter (Software) Module

COL Checkout Language

COLM Column

COM Common, Commonality

Computer Output Microfiche

COM-M Common Mode

COMAS Combined Orbital Maneuvering and Abort System

COMAT Compatibility of Materials

COMB Combustion

COMEC Communications Security

COMM Communications

COMMAND Computer Command Engineer

COMP Compass

Compensate Component

Computation of Rendezvous Targeting

Computer

COMPEN Compensator
COMPL Completed

COMPOOL Common Data Pool COMPR Compress, Compressor

COMPT Compartment

COMR&DSAT Communication Research and Development Satellite

COMSAT Communications Satellite
COMSEC Communications Security

CON Contact
CONCN Concentration
COND Condenser

Condition, Conditioner

CONDR Conditioner
CONF Conference
CONFIG Configuration

CONN Connect, Connector

CONS Console

CONSTR Construct, Construction

CONT Container
Contingency

Continue, Continued, Continuous

CONTAM Contaminate CONTIG Contiguous

CONTR Control, Controller

CONUS Continental United States

CONV Converter
COOP Cooperative
COORD Coordinate

COP Contingency Operations Plan
COQ Certificate of Qualification

COR Contracting Officer Representative

CORE Common Operational Research Equipment

COS Carry-on Oxygen System

Console Operating System

Cosine

COSATI Committee on Scientific and Technical Information

COSI Closeout System Installation
COSTA Cost Accounting (Code)

COV Cutoff Valve CP Candle Power

Cargo Program Office (KSC)
Cargo Projects Office (KSC)

Center of Pressure Chemically Pure Circular Pitch Cold Plate

Console Processor Control Panel Control Point

CP-DPO Deployable Payloads Projects Office (KSC)
CP-FEO Cargo Facilities and GSE Projects Office (KSC)

CP-PCO Cargo Projects-Program Control Office

CP-SPO Spacelab Projects Office (KSC)
CPA Contingency Planning Aid

Critical Path Analysis

CPAF Cost Plus Award Fee
CPC Central Planning Center

Characteristics Properties Code Computer Program Component Crew Procedures Control Board

CPCB Crew Procedures Control Board
CPCEI Computer Program Contract End Item
CPCI Computer Program Change Instruction

CPCI Computer Program Configuration Item
CPCL Computer Program Change Library
Computer Program Control Library

Computer Program Change Request

Crew Procedures Change Request (Form 482)

CPD Converter, Pulse to dc Voltage

Crew Passive Dosimeter Crew Procedures Division

CPDDS Computer Program Detail Design Specification
CPDR Contractor's Preliminary Design Review

CPDS Computer Program Design (or Development) Specification

Crew Procedures Documentation System

CPE Chief Program Engineer
CPEI Computer Program End Item

CPES Crew Procedures Evaluation (Evaluator) Simulator

CPF Cargo Processing Facility
Central Processing Facility

Cost per Flight
CPFF Cost Plus Fixed Fee
CPG Change Planning Group
CPI Cross Pointer Indicator
CPIF Cost Plus Incentive Fee

CPL Couple CPLT Complete

CPCR

CPM Computer Program Module

Critical Path Method Cycles per Minute

CPMP Crew Procedures Management Plan

CPR Critical Problem Report
CPS Cycles per Second

CPSE Common Payload Support Equipment

CPS Cold Plate Support Structure
Critical Phase System Software
CPT Cargo Processing Technician

Cargo Processing Technician Computer Program Tapes

CPU Central Processing Unit

Computer Printer Unit

CQDR Critical Qualification Design Review

CR Card Reader

CR Certification Requirement

Change Request Configuration Review

Control Room

Crew

CR/DIR Change Request Directive

CRAS Cost Reduction Alternative Study

CRB Change Review Board

CRC Contractor Recommended Code

Cost Reduction Curve

CRD Change Request Disposition

CRDP Computer Resources Development Plan

CRES Corrosion Resistant Steel
CRG Change Review Group

Correspondence Review Group

CRIS Calibration Recall and Information System
CRISP Computer Resources Integrated Support Plan

CRIT Critical

CRM Chemical Release Module

CRMD Computer Resources Management Data

CRN Cable Routing Rotation

Contract Revision Number

CRO Cathode Ray Oscillograph(s) or Oscilloscopes
CRP Configuration Requirements Processing

CRPL Cosmic Ray Physics Laboratory

CRR Computer Run Report

Critical Requirements Review

CRS CO₂ Reduction Subsystem

Course Cross

CRSFD Crossfeed

CRSI Ceramic Reusable Surface Insulation

CRSVR Crossover

CRT Cathode-Ray Tube

CRTG Cartridge

CRW Control Read/Write

CRYO Cryogenic
CS Change Status

Checkout Station

CS Common Set

Consumables Status Control Segment Core Segment Crew Station

STS Cargo Operations (KSC Directorate)

Spacelab Operations Directorate

CSA Cyclic Strain Attenuator

CSAM Crinkled Single Aluminized Mylar

CSAS Computerized Status Accounting System
CSAT Combined Systems Acceptance Test
CSC Computer Sciences Corporation

Conical Shaped Charge

Contingency Support Center (CCAFS)

Cosecant Computing Amplifier

CSCB Contractor's Summary Cost Breakdown

CSCSAT Commercial Synchronous Communication Satellite

CSD Chemical Systems Division

Control System Development

Crew Systems Division

CSDD Control Systems Development Division (JSC)

CSDF Central Source Data File

CSDL Charles Stark Draper Laboratory (MIT)

CSDT Computer Software Data Tapes
CSE Common Support Equipment
Communications Systems Engineer
Computer Support Equipment

Configuration Switching Equipment

CSF Central Supply Facility

Cost Sensitivity Factor

CSI Coelliptic Sequence Initiation

Control Servo Input Crew Software Interface

CSIR Computer Systems (Hardware/Software) Integration

Review

CSIU Core Segment Interface Unit
CSL Command Signal Limiter

Computer Status Lights Crew Systems Laboratory CSM Command Service Module

Common Support Module Computer Status Matrix

CSOC Consolidated Space Operations Center
CSOP Crew Systems Operating Procedures

CSP Computer Support Program
CSPU Core Segment Processing Unit
CSR Certification Status Report

Check Signal Return Crew Station Review

CSRP Computers and Software Review Panel

CSR Crew Station Review
CSS Computer Subsystem
Control Stick Steering

Core Segment Simulator

CSSE Control System Simulation Equipment

CST Central Standard Time
Combined Systems Test

Contract Supplemental Tooling

Crew Station Trainer

Crew Systems Trainer (One-G Trainer)

CSTA Crew Software Training Aid

CSTR Canister

CSTS Cryogenic Storage and Transfer System

CT Crawler Transporter
Current Transformer

CTA Computer Technology Associates (GSFC)

Controlled Thrust Assembly

CTC Camera, Timing, and Control

Chief Test Conductor

CTE Central Timing Equipment
CTI Critical Transportation Item

CTIS Crawler Transporter Intercom System

CTL Canoga Test Laboratory

Central or Control

CTM Contract Technical Manager

Crystalline Transitional Material

CTN Certification Test Network

CTP Communications Timing Procedure

Cyclic Time Processor

CTPD Crew Training and Procedures Division (JSC)

CTR Contract Technical Representative

CTRS Component Test Requirements Specifications

CTS Canadian Technology Satellite

Communications and Tracking System

Computer Test Set

Computerized Training System
Coordinate Transformation System
Computer Test Sequences Document

CTSD Computer Test Sequences Docume
CTTB Checkout Techniques Test Bed

CTU Central Timing Unit
CTWT Counterweight
CU Control Unit

cu Cubic

CUB Commonality Usage Board
CUC Computer Usage Control
CUDS Cumulative Data Statistics
CUE Common Usage Equipment
CUF Cross Utilization File
CUIL Common Usage Item List

CUM Cumulative

CUP Commonality Usage Proposal

CV Check Valve

Coefficient of Variation

Deployable Payloads Operation (KSC CO Dir.) Expendable Vehicles Operations (KSC Directorate)

CVAD Converter, Voltage, ac to do

CVAS Configuration Verification Accounting System

CVDA Converter, Voltage Discrete, ac
CVE Complete Vehicle Erector
CVM Control Valve Module
CVR Change Verification Record

Configuration Verification Review

CVRD Converter, Variable Resistance, to dc Voltage

CVT Communications Vector Table

Concept Verification Testing

CW Clockwise

Command Word
Continuous Wave

CWA Caution and Warning Annunciator

Clean Work Area

Controlled Work Area

CWE Caution and Warning Electronics

CWEA Caution and Warning Electronic Assembly
CWEU Caution and Warning Electronics Unit
CWFSP Caution and Warning/Fire Suppression Panel

CWG Constant Wear Garment

CWLM Caution and Warning Limit Module

CWS Caution and Warning Status

Caution and Warning System

CWSU Caution and Warning Status Unit

Condensate Water Servicing Unit

CX Color Exterior Film

CY Calendar Year

Cycle

CYL Cylinder

D Deck

Deliver (Delivery)

Delta Down Drag

D&C Display and Control (C&D preferred) D&CS Display and Controls Subsystem D&O **Description and Operations**

D&P Drain and Purge D/A Digital to Analog D/C Displays/Controls

D/L Data Link

DA&D

DACT

Deorbit/Landing

Downlink **Downlist**

D/VD Data/Voice Data DA Data Acquisition Deployment Assembly Distribution Assembly

> Double Amplitude Data Acquisition and Distribution

DAB Data Acquisition Bus

Discrete Address Beacon System DABS DAC Data Acquisition and Control

> Data Acquisition Camera Digital to Analog Converter Digital to Analytical Conversion

DACB Data Acquisition and Control Buffer **DACBU** Data Acquisition and Control Buffer Unit **DACS** Data Acquisition and Control System

Digital Acquisition and Control System Disposable Absorption Collection Trunk

DADE Data Acquisition and Decommutation Equipment

DADS **Dual Air Density Satellite** DAE Data Acquisition Equipment DAF Data Acquisition Facility

Data Analysis Facility DAF

Data Acquisition Frequency Table DAFT Data Avionics Information System DAIS

Data Accession List DAL

Data Acquisition List Data Aided Loop

Double Aluminized Mylar DAM

Driver Amplifier Module

Data Acquisition Plan DAP

Digital Autopilot

Data Aided Receiver DAR

Deviation Approval Request Digital Autopilot Requirements

Drawing Analysis Record

Data Acquisition and Reduction System **DARS** Digital Automated Radar Tracking System **DARTS**

Data Acquisition System DAS

Data Analysis Station Digital Address System Digital Avionics System

Documentation Accountability Sheet

Dual Aerosurface Servo Amplifier DASA

Dynamics, Acoustics, and Thermal Environment DATE

Data Acquisition Unit

Digital Adapter Unit

Data Available DAV Data Available-Low DAVL

Data Base DB

Data Bus Deadband Design Baseline Distribution Box

Dry Bulb

Decibel dB

Data Bus Control DBC

Data Bus Coupler

DB with Respect to a Circular Polarized Antenna DBCI

Data Bus Element DBE

DAU

DBFN Data Base File Number

Data Bus File Number

DBG Data Bus Group

DBGMP Data Bus Generation and Maintenance Package

DBI Data Bus Interface Unit-Launch DBIA Data Bus Interface Adapter Data Bus Isolation Amplifier

Data Bus Interface Unit

DBIU DBL Double

DBM Data Base Management

dBM Decibels Referred to 1 Milliwatt

DBN Data Bus Network DBP Design Baseline Program DBRN Data Bank Release Notice

DBS Data Base System

DBUR Data Bank Update Request

DBW Data Bus Wire

dBW Decibels Referred to 1 Watt

DC Data Coordinator Development-Center Display Coupler dc

Direct Current DCA Defense Communication Agency

Design Change Authorization Digital Command Assembly Distribution Control Assembly Defense Contract Audit Agency

DCAA DCAR Design Corrective Action Report **DCAS** Data Collection and Analysis System

Defense Contract Administration Services

DCC **Data Computation Complex Document Control Center**

DCCU Digital Command and Control Unit

Digital Communications and Control Unit

Display Computer Control Unit

DCIB Data Communication Input Buffer

DCIM/DSCIM Display System Computer Input Multiplexer

DCIU Digital Control and Interface Unit DCKNG Docking

DCL Document Change List
DCM DECOM Control Memory
Direction Cosine Matrix

Direction Cosine Matrix
Display and Control Module

DCMB Development Configuration Management Board

DCN Design Change Notice

Document Change Notice

Drawing Change Notice

DCNP Document Change Notice Proposal

DCO Detailed Checkout

DCOP Detailed Checkout Procedures

Displays, Controls, and Operations Procedures

DCP Data Collection Platform

Depot Condemnation Percent

DEU Control Program Development Cost Plan

DCPEI DEU Control Program End Item
DCR Design Certification Review

Design Change Request Design Concern Report

Document Change Record (or Review)

DCS Data Communication System

Data Control System

Design Communication System
Design Criteria Specification
Detail Checkout Specification(s)
Digital Command System (Subsystem)

Display and Control System Document Control System Dual Checkout Station

DCSI Data and Control Signal Interface
DCSP Digital Control Signal Processor
DCSU Digital Computer Switching Unit

DCU Digital Computer Unit

Display and Control Unit

DCV Direct Current Volts
DD Data Depository

DD Data Display

Decoder Driver
Dedicated Displays
Directives Documentation

Mechanical and Facilities Engineering (KSC DE Dir.)

DD&CS Dedicated Display and Control Subsystem

DD/HH:MM:SS Day/Hour:Minute:Second DDA Digital Differential Analyzer

ICD Departure Authorization

DDAS Digital Data Acquisition System

DDC Data Distribution Center

Defense Documentation Center

Digital Data Cell

DDD Design Definition Document

Display Decoder Drive

DDDL Digital Data Downlink
DDDU Digital Decoder Driver Unit
DDI Dedicated Display Indicator

Discrete Data Input

Discrete Digital Input

DDIS Data Depository Index System

DDL Data Downlink
DDM Data Display Module

Data Display Monitoring Discrete Data Management

DDMS DOD Manager for Space Shuttle Support

DDO Discrete Digital Output
DDP Design Development Plan

Digital Data Processing (Processor)

DDPC Digital Data Processing Center (Complex)
DDPF Dedicated Display Processing Function

DDPS Digital Data Processing System
DDR Data Discrepancy Report

Design Development Record

Detail Design Review

DDS Data Display System

Detailed Design Specification

Documentation Distribution System

DDT&E Design, Development, Test, and Engineering/Evaluation

(Flights)

Design, Development, Test, and Evaluation

DDTF Dynamic Docking Test Facility
DDTS Dynamic Docking Test System

DDU Data Display Unit

Decommutator Distribution Unit

Display Driver Unit

DE Design Engineering (KSC Dir.)

Doppler Extractor Dynamics Explorer

DEACT Deactivate
DEC Declination

DECL Direct Energy Conversion Laboratory (JSC)

DECOM Decommutate, Decommutator

DECR Decrease

DECS Civil Engineering Office at Vandenberg

DECU Data Exchange Control Unit

DED Dedicate, Dedicated

DEDA Data Entry and Display Assembly

DEE Digital Events Evaluator

DEF Definition
DEFL Deflect
DEG Degree

DEI Design Engineering Identification

DEIS Design Engineering Inspection Simulation

Design Evaluation Inspection Simulator

DEL Deliver, Delivery

Deorbit, Entry, and Landing

DELTA-T Difference in Temperature DEMOD Demodulate, Demodulator

DEMUX Demultiplexer
DEORB Deorbit
DEPL Deploy
DEPRESS Depressurize
DEPT Department

DER Drawing Error Report

DERIGID Derigidize

DES Data Exchange System

DES Descend, Descent

Design

DESAT Desaturated
DESC Descent
DESIG Designate

DESPOT Design Performance Optimization

DEST Destination
DET Detail
Detent

Digital Event Timer

DETN Detection
DETR Detector

DEU Display Electronic(s) Unit
DEV Develop, Development

DEVN Deviation

DEW Distant Early Warning
DF Development Flight
Development-Forward
Direction Finder (Finding)

Disassembly Facility

DF-SPE-A Shuttle Project Engineering Office
DFCS Digital Flight Control Software (System)

DFE Data Flow Engineer

DFG Direction Finding Equipment
DFG Display Format Generator

DFI Development Flight Instrumentation

Discrete Input High

DFRC Hugh L. Dryden Flight Research Center

DFR Defrost DFRN Differential

Differential Velocity
DFRN PRESS Differential Pressure

DFS Directional Finding System

Dynamic Flight Simulator

DFVLR Deutsche Forschungs-und Versuchsanstalt Fur Luft-und

Raumfahrt

DG Display Generator

DH Decision Height

DHA Design Hazards Analysis
DHS Discrete Horizon Sensor

DI Data Integrator

Development Integration

Discrete Input
Display Interface

Display Interface Processor (Software Functional Element)

DIA Diameter
DIAG Diagonal
DIAGN Diagnose

DIDS Defense Integrated Data System

DIF Difference

Discrete Increment Filter

DIFF Differential DIGI Digital

DIH Discrete Input High
DIL Deliverable Items List
Discrete Input Low
DIM Design Interface Meeting

District doc w

DIMEN Dimension

DIP Designated Inspection Point

Display Input Processor

Display Interface Processing (Processor)
Defense Industrial Plant Equipment Center

DIPEC Defense Industrial Plant Equi DIPL Display Initial Program Load

DIR Direct

Document Information Record

DIS Disagree

Documentation Index System

DISAP Disapproved
DISASSY Disassembly
DISC Discone
Disconnect
Discrete

DISCH Discharge
DISENG Disengage
DISP Dispenser

DISP Display

Display Functions

DIST Distribution
DISTR Distributor
DIT Data Id Table

Dynamic Integrated Test

DIU Digital Interface Unit

DIV Division DK Deck

Display/Keyboard

Docking

DL Development-Left

Downlink

Electronics Engineering (KSC DE Dir.)

DLAT Destructive Lot Acceptance Testing

DLC Direct Lift Control
DLS Dynamic Load Simulator

DLSC Defense Logistics Service Center
DLSM Data Link Summary Message
DLTR Data Link Terminal Repeater

Data Link Transmission Repeater

DLY Delay

DM Data Manager

Development Motor

Developmental Instrumentation MDM-Mid

Disassembly Manual Docking Mechanism

Document, Documentation

DMA Direct Memory Access

Direct Memory Address

Drive Motor Assembly

DMC Data Management Computer

Direct Maintenance Cost

DMCF Deservicing, Maintenance, and Checkout Facility

DME Distance Measuring Equipment
DMG Data Management Group

DMIA Dual Multiplexer Interface Adapter
DMIS Data Management Information System

DML Developmental Instrumentation MDM-Left

DMON Discrete Monitoring

DMP Deployable Maintenance Platform

DEU Message Processor

Dump

DMR Developmental Instrumentation MDM-Right

DMS Data Management System

Docking Mechanism System (Subsystem)

Docking Module Subsystem Dynamic Motion Simulator

DMSS Data Management System Simulator (CVT)

DN Discrepancy Notice

Down

DNA Does Not Apply

DNLK Downlink (D/L preferred)

DNLT Downlist

DNO Descending Node Orbit
DNP Dynamic Nuclear Polarization

DO Discrete Output

DOA Department of Agriculture
DOC Department of Commerce
Document, Documentation

DOD Department of Defense

DOD-STP Department of Defense-Standard Satellite

DODD Department of Defense Directive

DOE Department of Energy DOF Degree-of-Freedom

Direction of Flight
DOH Discrete Output High
DOI Descent Orbit Insertion
DOL Department of Labor
Discrete Output Low

DOMSAT Domestic Satellite
DOP Diver Operated Plug
DOS Disk Operating System

DOSIM Dosimeter

DOT Department of Transportation

Deployment Operations Team

DOT/CIAP DOT Climatic Impact Assessment Program

DOY Day of Year DP Data Processing

Delayed Procurement Deployable Payload Design Proof

Development Phase Differential Pressure

Double Pole
Double Precision

DP&S Data Processing And Software

DP&SS Data Processing and Software Subsystem

DP/DT Delta Pressure/Delta Time
DPA Data Processing Assembly
DPF Differential Pressure Feedback
DPI Detail Program Interrelationships

DPLR Doppler

DPM Dual Port Memory
DPNL Distribution Panel

DPP Deployment Pointing Panels

DPPS Department of Defense (DOD) Project Specification

DPR Definition Phase Review
DPS Data Processing and Software
Data Processing Software System

Data Processing Software System
Data Processing System (Subsystem)

DPT Design Proof Test

DPY Deploy

DR Dead Reckoning

Design Review
Development-Right
Discrepancy Report
Discrete Register
Dispatch Reliability
Disposition Record

Door

Drive

DR&A Data Requirements and Analysis
DRA Document Release Authorization

DRB Design Requirements Baseline

Design Review Board

DRC Data Reduction Center

Discrete Rate Command

DRD Data Requirement Description

Data Requirements Document
Detailed Requirements Document
Document Requirement Description

DRF Data Request Form

Digital, Radio Frequency

Documentation Requisition Form

DRG Digital Ranging Generator

DRI Data Rate Indicator

DRIRU Dry Rotor Inertial Reference Unit

DRK Display Request Keyboard
DRL Data Requirements List

Document Requirements List

DRM Data Records Management

Design Reference Mission

Drawing Requirements Manual

DRN Drain

DRO Document Release Order

DROG Drogue

DRR Data Recorder/Reproducer

Design Requirements Review

DRS Data Relay Satellite

Data Relay Station
Digital Range Safety

DRSS Discrepancy Report Squawk Sheet

DRT Design Reference Timeline

DRUC Disposition Record Unsatisfactory Condition

DS Data Storage

DS&R Data Storage and Retrieval DSA Defense Supply Agency

DSAD Data Systems and Analysis Directorate (JSC)

DSB Document Status Bulletin

Double Side Band

DSC Data Separator Card

DSC Dedicated Signal Conditioner

DSCRM Discriminator

DSCS Defense Satellite Communications System

DSDU Data Storage Distribution Unit
DSE Data Storage Equipment

DSEA Data Storage Electronics Assembly
DSIF Deep Space Instrumentation Facility

DSKY Display Keyboard
DSN Deep Space Network

DSO Detailed Secondary Objective

Detailed Supplementary Objectives

DSP Defense Support Program

DSPL Display

DSSM

DST

DSPM Designated Subsystems Project Manager

DSS Data Systems Supervisor

Deep Space Station

Department Summary Schedule
Documentation Support Services
Dedicated Solar Sortie Mission
Dimensional Special Tooling

Dynamic Stability Test

DSTF Delta Spin Test Facility

DSW Door Switch
DT Delayed Time

Digital Test Measurement System

Drop Tank

DTA Development Test Article

DTC Design to Cost

DTCS Digital Test Command System
DTCW Data Transfer Command Word
DTE Data Transmission Equipment

Digital Television Equipment

DTI Development Test Instrumentation

DTMO Development, Test, and Mission Operations

Digital Test Measurement System

DTMS Development, Test, and Mission Support (DTMO)

Digital Test Measurement System

Digital Test Monitoring System

DTO Detailed Test Objective

DTP Detail Test Plan

DTPR Detailed Test Procedures

DTRD Development Test Requirements Document

DTS Data Transfer System

Data Transmission System

DU Display Unit

DUA Digital Uplink Assembly
DUC Digital Uplink Command

DUM Dummy
DUPLX Duplex
DUPLXR Duplexer
DUR Duration

DV Designated Verification

Designee for Verification

DVD Delta Velocity Display
DVM Digital Voltmeter

DVS Design Verification Specification

Digital Voice System

DVT Design Verification Testing

DW Data Word
DWG Drawing
DWI Data Word in

DWS Disaster Warning Satellite
DWV Dielectric Withstanding Voltage
DY Deputy Director (KSC Directorate)

DYN Dynamic

E East

Elevation Angle

Engine

Exempt (from Traceability)

E&D Engineering and Development

Engineering and Development Directorate (JSC)

E-E End-to-End
E-P Electron/Proton
E/C Encoder/Coupler
E/L Entry/Landing
E/M Engineering Model
E/O Engineering/Operations

E/O-Information Management System

E/W Energy to Weight Ratio

EA Each

Electronic Assembly

EAC Energy Absorbing Capacity

Estimate at Completion

EAD Electrically Alterable Device

EADI Electronic Attitude Director Indicator

EAFB Edwards Air Force Base

Elgin Air Force Base Ellington Air Force Base

EAR Electrical Accounting Machine EAR Engineering Analysis Report

EAS Equivalent Air Speed

EAT Environmental Acceptance Test

EB Electronic Beam Emergency Box

EBC

Emulated Buffer Computer

EBCDC Extended Binary Coded Decimal

EBD Eyeballs Down (+GZ)
EBI Eyeballs In (+GX)
EBL Eyeballs Left (+GY)
EBO Eyeballs Out (-GX)
EBR Eyeballs Right (-GY)

EBS Emergency Breathing Subsystem

Eyeballs Up (-GZ) **EBU Electron Beam Welding EBW**

Exploding Bridge Wire

Element Contractor EC

> **Engine Control Engine Cutoff Essentiality Code Events Controller Events Coupler**

Experiment Computer

Electronics Control Assembly ECA

Engineering Change Analysis

Epoxy Curing Agent

Experiment Computer Application Software ECAS

Engineering Change Board **ECB**

Event Control Block

Events Control Buffer

Engineering Change Control ECC

Engineering Critical Component

Engineering Change Control Board ECCB ECD

Engineering Control Drawing

Estimated Completion Date

Experiment Checkout Equipment Processor ECEP

Element Charge Factor **ECF**

Equivalency Capability File

Electrocardiogram **ECG**

Earth Centered Inertia (Inertials) ECI Experiment Computer Input/Output **ECIO**

Entry Closed Loop ECL

Environmental Control and Life Support ECLS

Environmental Control and Life Support System ECLSS

(Subsystem)

ECN Engineering Change Notice

Engine Combustion ECO

Engine Cutoff

Engineering Change Order

Experiment Computer Operating System ECOS

Engineering Change Program ECP

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ECP Engineering Change Proposal

Engineering Control Proposal Explicitly Coded Program

ECR Engineering Change Request

ECRA Engineering Change Request/Authorization

ECS Engine Control System

Environmental Control System (Subsystem)

ECU Electronic Coupling Unit

Environmental Control Unit

ED Edge Distance

Edit

Engineering Directive

Explosive Device

EDA Electronic Display Assembly

Elevation Drive Assembly

EDB Environmental Data Book EDC Engineering Design Change

EDC(M) Electrochemical Depolarized CO₂ (Module)

EDCP Engineering Design Change Proposal EDDR Electron Dipole-Dipole Reservoir

EDF Engineering Data File

EDLN Engineering Development Logic Network

EDP Electonic Data Processing

EDPE Electronic Data Processing Equipment
EDPM Electronic Data Processing Machine

EDR Engineering Design Review
EDS Electrical Distribution System

Emergency Detection System

Explosive Device System

EDT Eastern Daylight Time

EDU Engineering Development Unit
EDV Electronic Depressurizing Valve
EDW Edwards (TACAN Station)

Edwards Air Force Base, CA (Deorb OPT site)

EE End Effector

EECOM Electrical, Environmental, and Communications

Electrical, Environmental, Consumables, and Mechanical

Systems (MPSR)

EED Electro (Electrical) Explosive Device
EEE Electronic, Electrical, Electromechanical

EEEU End Effector Electronics Unit

EEG Electroencephalogram
EEH EMU Electrical Harness

EEIS End-to-End Information System
EEL Electrical Equipment List

EEM Earth Entry Module

EENT Eye, Ear, Nose, and Throat Ejection Escape Suit

Emergency Ejection Suits

EET Entry Elapsed Time

EETB Electronic Electrical Termination Building
EEVT Electrophoresis Equipment Verification Test

EFA Experiment Flight Applications
EFCS Earth Fixed Coordinate System

EFF Efficiency

EFFGRO Efficient Growth (Computer Program)

EFP ESA Furnished Property

EFTO Encrypted for Transmission Only

EG Entry Guidance
EGA Evolved Gas Analysis

EGC Experiments Ground Computer EGF Electrical, Grapple Fixture

EGIL Electrical, General Instrumentation, and Lighting Engineer

EGRET Energetic Gamma Ray Explorer Telescope

EGRS Egress

EGSE Electrical Ground Support Equipment

EGT Elapsed Ground Time

Estimated Ground Time Exhaust Gas Temperature

Fast Pulse Electron Gun

EGUN Fast Pulse Electron Gun
EH/M Extension Hose/Mouthpiece
EHC Electrical Heating Control
EHF Extremely High Frequency
EHOT External Hydrogen/Oxygen Tank

EHP Effective Horsepower

Electrical Horsepower

EHR Earned Hour Ratio

EHS Environmental Health Services

EHX Experiment Dedicated Heat Exchanger

El Electromagnetic Interference

Electronic Interface

End Item

Engineering Instruction

Entry Interface

Environmental Impact

EIA Electrical Industries Association
EIASN End Item Assembly Sequence Number

EIC Experimental Intercom
EID End Item Documentation
EIDP End Item Data Package

EIFA Element Interface Functional Analysis

EIR Environmental Impact Report
EIRP Effective Isotropic Radiated Power
EIS Electrical Integration System

End Item Specification

Environmental Impact Statement

Extended Instruction Set Entry Interface Time

EIT Entry Interface Time
EIU Engine Interface Unit

EIVT Electrical and Instrumentation Verification Test

Electrical Interface Verification Test Electronic Installation Verification Test

EJN Ejection

EKG Electrocardiogram (Record)

Electrocardiograph (Instrument)

EL Elastic Limit

Electroluminescent

Elevate

Elevation Angle

EL MECH Electromechanical

ELACS Extended Life Attitude Control System

ELB Elbow

ELDISC Electrical Disconnect

ELDV Electrically Operated Depressurization Valve

ELEC Electric

ELEC Electronic
ELECT Electrical
ELECTR Electronics
ELEV Elevon

ELF Extremely Low Frequency (1 Hz to 3 kHz)

ELINT Electromagnetic Intelligence

ELMCH Electromechanical

ELMS Elastic Loop Mobility System

Elements

ELS Earth Landing System (Subsystem)

Eastern Launch Site

Elevon Load System

ELSC Earth Landing Sequence Controller
ELSS Emergency Life Support System
ELT Emergency Locator Transmitter

ELV Earth Launch Vehicle

Electrically Operated Valve Expendable Launch Vehicle

ELVN Eleven Emergency

Engineering Model Exception Monitor

EMA Electromagnetic Analysis

EMC Electromagnetic Compatibility

EMCC Emergency Mission Control Center

EMCD Electro-Mechanical Control Diagram

EMCI Engineering Model Configuration Inspection

EMD Entry Monitor Display

EMEC Electromagnetic Effects Capability

Electromagnetic Effects Compatibility

EMER Emergency

EMES Electrical, Mechanical, and Environmental Systems

EMF Electromagnetic Force

Electromotive Force

EMG Electromyograph(gram)

Surface Electromyograms

EMI Electromagnetic Interference

EMIS Emission

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EMK Emergency Medical Kit

EML Electromagnetic Laboratory

EMN Engineering Management Network

EMON Exception Monitoring
EMP Electromagnetic Pulse

Equipment Mounting Plate

EMPGS Electrical/Mechanical Power Generation Subsystem

EMR Engine Mixture Ratio

EMRL Equipment Maintenance Requirements List

EMS Electromagnetic Susceptibility

Engineering Master Schedule Entry Monitor Subsystem Entry Monitoring System

EMSS Electromagnetic Servoactuator System

EMT Electro-Mechanical Test
EMU Engineering Model Unit
Extended Memory Unit

Extended Memory Unit Extravehicular Mobility Unit

EMU-TV Extravehicular Mobility Unit - Television

E-MUX Electrical Multiplex

ENA Enable
ENC Encode
ENCD Encode
ENCL Enclose
END EFF End Effector

ENDF Evaluated Neutron Data File

ENG Electronystagnogram

Engine, Engineer

ENGR Engineer
ENGRG Engineering
ENT Entry

ENVIR Environment, Environmental

EO Earth Observation

Earth Orbit
Engineering Order

Engine Out

Equal Opportunity Program Office (KSC Directorate)

EOC End of Contract

Engine Order Capability

EOC Engine-out Capability
EOD Estimated on Dock

Explosive Ordnance Disposal

EODB End of Data Block

EOF End of File
EOG Electroculogram

EOHT External Oxygen and Hydrogen Tanks

EOI Earth Orbit Insertion

EOL End of Line
EOM End of Message
End of Mission

Engineering Operations Manual

Equations of Motion

EOMF End of Minor Frame
EOP Earth and Ocean Physics
Emorganical Oxygen Pack

Emergency Oxygen Pack
Experiments of Opportunity

EOPAP Earth and Ocean Physics Application Program

EOR Earth Orbit Rendezvous
EOS Earth Observation Satellite

Earth Orbit Shuttle

Emergency Oxygen Supply Emergency Oxygen System Extended Operating System

EOT End of Tape

End of Transmission

EOW Energy over Weight EP Elbow Pitch

Electrical Power

Environmental Protective Plan Environmental Protection Agency

EPA Environmental Protection
EPC Error Protection Code

External Power Contractor

EPCDC Electrical Power Conditioning, Distribution, and

Control

EPD Electrical Power Distribution

Emergency Procedures Document

EPDB Electrical Power Distribution Box

EPDB Experiment Power Distribution Box
EPDC Electrical Power Distribution and Control

EPDCS Electrical Power Distribution and Control System

(Subsystem)

EPDS Electrical Power and Distribution Subsystem

Electrical Power Distribution System

EPG Electrical Power Generator
EPL Electrical Power Level

Electronic, Electrical, and Electromechanical Parts

List

Emergency Power Level

EPMS Engineering Performance Management System

EPO Element Project Office

EPOC External Payload Operations Center
EPPS Electrical Power/Pyro Sequential System

EPR Engine Pressure Ratio

EPRN Emergency Program Release Notice

EPROM Erasable Programmable Read Only Memory

EPS Electrical Power System (Subsystem)

Experimental Power Supply

EPSP Experiment Power Switching Panel
EPT Emergency Procedure Trainer
Ethylene Propylene Terpolymer

EPTU Events per Time Unit

EPWG Environmental Projects Working Group

EQ Equivalent

EQE Event Queue Element

EQL Equal
EQUIP Equipment
EQUIV Equivalent

ER Explanation Report

ERA Electrical Replaceable Assembly
ERAP Earth Resources Aircraft Program

ERB Engineering Review Board

ERBE Earth Radiation Budget Experiment
ERBS Earth Radiation Budget Satellite

ERC Event Recorder

ERCA Electrochemically Regenerable CO₂ Absorber

EREP Earth Resources Package

ERG Ergometer

ERNO 'Entwicklungts Ring Nord' Organization, Space Division

of European Consortium, VFW-Fokker-Mannheim,

Germany (Spacelab Contractor)

ERO Engineering Release Operations

ERP Effected Radiative Power

Effective Radiation Power

Eye Reference Point

ERPM Engineering Requirements and Procedures Manual

ERR Error

ERR CNTR Error Counter

ERRC Expendability/Recoverability/Repair Capability

ERS Earth Recovery Subsystem

Engineering Release System Entry and Recovery Simulation

ERSI Elastomeric Reusable Surface Insulation
ERSIR Earth Resources Shuttle Imaging Radar
ERTS Earth Resources Technology Satellite

ERU Earth Rate Unit

ERV Expiratory Reserve Volume

ES Escape System

Experiment Segment

ESA Engineering Supply Area

Engineering Support Assembly

European Space Agency
Explosive Safe Area

ESB Essential Switching Box

ESC Escape

ESCA Electron Spectroscopy for Chemical Analysis
ESCU Extended Service and Cooling Umbilical

ESD Emergency Shutdown

Experiment Systems Division

ESDAC European Space Data Center (Darmstadt, Germany)

ESDU Event Storage and Distribution Unit

ESE Electrical Support Equipment

Electronic Support Equipment EVA Support Equipment

ESF Explosive Safe Facility
ESI Electrical System Integration

ESMC Eastern Space and Missile Center (formerly AFETR), also

ETR

ESO Event Sequence Override

ESOC European Space Operations Center
ESOW Engineering Statement of Work
ESP Electroshock Protection

Engine Service Platforms

Experiment Sensing Platform

ESPS Experiment Segment Pallet Simulator

ESR Effective Sunrise

Engineering Support Request

ESRIN European Space Research Institute
ESRO European Space Research Organization

ESS Effective Sunset

Environmental Support System

Essential

Experiment Subsystem Simulator

ESSA Environmental Sciences Services Administration

EST Eastern Standard Time

Estimate(d)

ESTA Electronic System Test Equipment

Escape System Test Article

ESTEC European Space Research and Technology Center

European Space Technology Center

ESTL Electronic Systems Test Laboratory

ESV Emergency Shutoff Valve
ESVS Escape Suit Ventilation System

Escape System Ventilation System

ESW Engine Status Word ET Edge Thickness

Elapsed Time

Elevated Temperature

Event Timer

External Tank

ET-SEP External Tank Separation
ETA Environmental Test Article

Environmental Test Article
Estimated Time of Arrival

Estimated Time to Acquisition Explosive Transfer Assembly External Tank Attachment

Equipment Transfer Bag **ETB** Earth Terrain Camera **ETC**

Estimate to Completion

Greenbelt, Maryland (STDN Site) Equipment Transfer/Change Order **ETCO Electrical Terminal Distributor** ETD

Estimated Turnover Date

External Tank Door

End-to-End ETE

Elapsed Time Indicator ETI External Tank Lift-Off Weight **ETLOW**

Elapsed Time Meter ETM Equipment Test Plan **ETP**

Eastern Test Range (ESME preferred) **ETR** Eastern Test Range Operations Directive **ETROD**

Electrical Test Set ETS

Energy Transfer System

External Tank System (Subsystem) External Tank Separation Subsystem

ETSS External Tank Vent Arm **ETVA**

ΕU **Electronic Unit**

Engineering Units Experimental Unit

EUROCOMSATEuropean Consortium Communications Satellite

Extreme Ultraviolet **EUV**

Extreme Ultraviolet Explorer **EUVE**

Expendable Vehicles ΕV

Extravehicular

Electron Volts eΥ

Earned Value Analysis **EVA**

Extravehicular Activity

Earth Viewing Applications Laboratory **EVAL**

Evaluate, Evaluation

Evaporator **EVAP**

Extravehicular Activity Translational Aid **EVATA**

Extravehicular Communications **EVC** Events Control (Subsystem) **EVCON**

EVCS Extravehicular Communications System **EVCU** Extravehicular Communications Umbilical

EVD External Visual Display **EVF** Equipment Visibility File

EVLSS Extravehicular Life Support System

EVM Earth Viewing Module

EVMU Extra Vehicular Mobility Unit EVO **Engineering Verification Order** EVS **Equipment Visibility System**

Extravehicular Suit

EVSC Extravehicular Suit Communications

EVSS Extravehicular Space Suit **EVSU** Extravehicular Space Unit **EVT Engineering Verification Test** Extravehicular Transfer

EVVA Extravehicular Visor Assembly

E/W **Energy Over Weight**

EWA Estimated Warehouse Arrival **EWE Emergency Window Escape EWO Engineering Work Order EWR Engineering Work Request**

EΧ **Executive Management Office (KSC Directorate)**

EXC **Experiment Computer**

EXCH Exchange **EXEC** Execute EXH Exhaust

EXO Experiment Operator (in Spacelab)

EXP Expand

> Experiment Exposure

EXPEN Expendable

EXT Experiment Terminal (Operator Console on Spacelab)

Extension

External **EXTD** Extend **EXTER** External **EXTGH** Extinguish F Fahrenheit Failure

Farad (SI Unit of Capacitance)

Female Forward Front

F&E Facility and Environment

F/A Failure Analysis

Fuel-Air

F/C Fit Check

Flight Controller

Fuel Cells

F/D Fill/Drain
F/E Full/Empty
F/F Fill/Full, Full/Fill
F/O Fuel/Oxidizer Ratio
F/R Flared Rudder
FA Failure Analysis

Final Approach Final Assembly Flight Aft Flight Critical Aft

Fully Automatic

FA/COSI Final Assembly and Closeout System Installation

FAA False Alarm Avoidance

Federal Aviation Administration

FAB Fabricate, Fabrication

FAC Facility

FACI First Article Configuration Inspection FACO Fabrication and Acceptance Checkout

Factory Acceptance Checkout Factory Assembly and Checkout

Final Assembly Checkout

FACS Facilities Control

Finance and Control System

FACT Flexible Automatic Circuit Tester

FAD Final Approach Display
FAF First Aerodynamic Flight

FAIR Fabrication, Assembly, and Inspection Record

FAL First Approach and Landing (Test)

FAM Familiarization

FAMOS Flight Acceleration Monitor Only System

FAO Flight Activities Officer
FAP Final Approach Plane
FAR Failure Analysis Report
Federal Aviation Regulation

Final Acceptance Review Flight Acceptance Review

FASCOS Flight Acceleration Safety Cutoff System

FAT Flight Attitude Table

FAWG Flight Assignment Working Group

FAX Facsimile Transmission

FB Feedback Final Braking

FBAS Fixed Base Aft Station
FBC Fluidized-Bed Combustion
FBCS Fixed Base Crew Station (SMS)
FBS Firefighters Breathing System

FBV Field Base Visit

Fuel Bleed Valve

FC Fit Check

Flight Computer Flight Control Flight Critical Fuel Cell

FCA Fluids Control Assembly

Frequency Control Analysis
Functional Compatibility Analysis
Functional Configuration Audit

FCAF Flight Crew Accommodations Facility
FCAP Flight Control Applications Program
FCC Federal Communications Commission

Flat Conductor Cable Flight Control Computer Flight Crew Compartment

FCCP Firm Contract Cost Proposal FCD Flight Control Division (JSC) FCDB Flight Control Data Bus FCE Flight Control Equipment

Flight Crew Equipment

FCEF Flight Crew Equipment Facility
FCEI Facility Contractor End Item

FCF First Captive Flight

Flight Critical Forward Functional Check Flight

FCFM Flight Combustion Facility Monitor

FCH Flight Controllers Handbook

FCHL Flight Control Hydraulics Laboratory

FCI Flight Control Indicator

Functional Configuration Identification

FCIM Flight Control Interface Module
FCIP Flight Cargo Implementation Plan

FCL Freon Coolant Line

Freon Coolant Loop

FCMU Foot Controlled Maneuvering Unit

FCN Function FCO Final Checkout

Functional Checkout

FCOH Flight Controllers Operational Handbook
FCOS Flight Computer Operating System (Orbiter)

Flight Control Operating System
Flight Control Operational Software

FCP Failure Correction Panel

Firm Cost Proposal

Flight Correction Proposal Fuel Cell Power (Plant)

FCPS Fuel Cell Power System (Subsystem)

FCR Final Configuration Review

Flight Configuration Review

Flight Control Room

FCRA Fecal Collection Receptacle Assembly

FCRT Flight Display CRT

FCS Fecal Containment System

Federal Communications System Flight Control System (Subsystem)

Flight Crew System

FCSM Flight Combustion Stability Monitor

FCSS Fuel Cell Servicing System **FCT** Flight Control Team

Flight Crew Trainer

Fuel Cell Test

FCTB Flight Crew Training Building

FCTF Fuel Cell Test Facility

FCTS Flight Crew Trainer Simulator

FCU Fluid Checkout Unit **FCW** Format Control Words FD

Fault Detection

Feed

Flight Day Flight Deck Flight Director Freeze Dried

Function Designator

FD WMR Food Warmer

FDA Fault Detection and Annunciation

Flight Deck Assembly (FDF)

FDAI Flight Director Attitude Indicator

FDB Fahrenheit Dry Bulb

FDDB Function Designator Data Base

FDF Flight Data File

FDI Failure Detector Indicator

Fault Detection and Identification

Fault Detection and Isolation

FDIIR Fault Detection, Isolation, Identification, and

Recompensation

FDIR Fault Detection Identification/Isolation and

Recovery/Recognition

FDL Flight Director Loop

FDLN Feedline

FDM Flight Data Manager

Frequency Data Multiplexer FDM

Frequency Division Multiplexing

Fee Determination Official FDO

Flight Dynamics Officer

Flight Design Operations Review **FDOR**

Final Design Review FDR

Flight Data Recorder Functional Design Review

Flight Director Rate Indicator

FDRI Flight Design and Scheduling **FDS**

Flight Design System

Flight Dynamics Simulator

Flight Dynamics Software/System

Fluid Distribution System

Functional Design Specifications

Flight Dynamics Simulation Complex **FDSC**

Flight Dynamics Situation Complex

Fluid Distribution Unit **FDU**

Full Duplex FDX

Failure Effects Analysis **FEA**

Final Engineering Acceptance Test **FEAT**

Forward Equipment Bay FEB Field Engineering Change FEC

Forward Events Controller

Flight Events Demonstration FED

Facility and Equipment Design Plan **FEDP** Flight Equipment Interface Device FEID

Functional Engineering Interface Device

Finite Element Method **FEM**

Facilities and Envir. Measurement Comp. Parts List **FEMCPL**

Floral Ethel Propane FEP

Fluorinated Ethylene Propylene

Front End Processor

Facility and Equipment Requirements Document **FERD**

Flash Evaporator System **FES**

Flight Element Set

Failure Effects Summary List **FESL**

Field Effect Transistor FET

Flight Elapsed Time

Flight Evaluation Working Group **FEWG**

FF Flight Forward

Flip Flop Free Flight

Functional Flow Block Diagram

FFC Final Flight Certification
FFD Fixed Format Display

Functional Flow Diagram

FFM Free-Flying (Experiment) Module

FFP Firmed Fixed Price FFTO Free-Flying Teleoperator

FH Flex Hose

FFBD

FHC Flight Half Coupling
FHD Fixed Head Disk
FHF First Horizontal Flight
FHO Failed Handover
FHP Fuel High Pressure
FHS Forward Heat Shield
FI Fault Identification
Flight Instrumentation

Formal Inspection

FIAR Failure Investigation Action Report

FID Failure Identification

Flight Implementation Directive

FIDO Flight Dynamics Officer

FIE Flight Instrumentation Engineer

FIFO First in-First Out (High Speed Data Buffers)

FIG Figure

FIIG Federal Item Identification Guide

FIL Filament

FILE Future Identification and Location Experiment

FIO Furnished and Installed by Others

FIR Fuel Indicating Reading
FIS Facility Interface Sheets
FIT Fault Isolation Test

First Computer Interface Tester

FITH Fire-in-the-Hole
FIV Fuel Isolation Valve
FKB Flight Display Keyboard

FL Fail

Feed Lines Flowline

FL MECH Fluid Mechanical

FLAP Flight Application Software FLC Federal Library Committee

Forward Load Control

FLCA Forward Load Control Assembly

FLD Field
FLEX Flexible
FLG Flag
Flange

FLLK Frustum Lifting Lug Kit

FLN Fuel Line
FLOT Flotation
FLP Flap

FLPS Flight Load Preparation System

FLR Failure Flare

FLS Flight Surgeon

FLSC Flexible Linear Shaped Charge

FLT Flight Floating FLTR Filter

FLTSATCOM Fleet Satellite Communications

FLUOR Fluorescent

FLW Fellows (TACAN Station)

FM Flight Model

Frequency Modulation (Modulated)

FM/FM Frequency Modulation/Frequency Multiplexing

FM/PM Frequency Modulation/Phase Modulation

FMA Failure Mode Analysis

FMAHTS Flight Manifest and Hardware Tracking System

FMANTS Flight Manifest

FMC Food Machinery Corporation
FMCF First Manned Captive Flight
FMDM Flex Multiplexer/Demultiplexer
FMEA Failure Modes and Effects Analysis

FMEC Forward Master Events Controller

FMECA Failure Mode, Effects, and Criticality Analysis

FML Fault Message Line

Final Materials List

FMO Flight Medical Officer
FMOF First Manned Orbital Flight

FMOFEV First Manned Orbital Flight with EVA
FMOFPL First Manned Orbital Flight with Payload

FMR Field Modification Request

Function Max Rate

FMS Food Management System (Subsystem)
FMSP Frequency Modulation Signal Processor

FMT Flight Management Team

Format

FMX FM Transmitter
FND Facility Need Date

FNL Final

FNT Failure Notification Telex

FO Fail Operational

Fiber Optics

Functional Objective

FO/FS Fail-Operational/Fail-Safe FOB Flight Operations Building

Free on Board

FOC Focus

Full Operational Capability

FOD Flight Operations Directorate (JSC)

FOE Flight Operations Engineer
FOF First Operational Flight

First Orbital Flight

Flight Operations Facilities

FOIH Flight Operations Integration Handbook FOMR Flight Operations Management Room

FOP Flight Operations Panel

Flight Operations Plan

Follow on Production

FOPG Flight Operations Planning Group

FOPP Follow on Parts Production

FOPS Flight Operations Planning Schedule

FOR Flight Operations Review

Force

FORTRAN Formula Translation
FOS Flight Operations Support

FOSDIC Film Optical Sensing Device for Input to Computers

FOSO Flight Operations Scheduling Officer
FOSP Flight Operations Support Personnel
FOST Flight Operations Support Team

FOT Flight Operations Team
FOV Field of View (Vision)
First Orbital Vehicle

Fine Pointing

Fixed Point
Flight Plan
Freezing Point
Fuel Pressure
Function Path

FPB Fuel Preburner

FPBOV Fuel Preburner and Oxidizer Valve

FPC Fluids Pressure Control
Forward Power Controller

FPCA Forward Power Control Assembly
FPE Functional Program Element
FPEG Fast Pulse Electron Gun
FPHB Flight Procedures Handbook
FPIF Fixed Price Incentive Fee

FPL Full Power Level

Full Power Load

FPM Feet per Minute

Folding Platform Mechanism

FPOV Fuel Preburner Oxidizer Valve

FPP Freon Pump Package

FPPR Fixed Price with Price Revision
FPR Flight Performance Reserve

FPS Feet per Second

Flight per Second

FP

FPS Forward Power Supply

Frames per Second

FPU Floating Point Unit

FPV Flow Proportioning Valve

FQ Flight Qualification

FQI Flight Qualification Instrumentation FQR

Flight Qualification Recorder

Flight Qualification Review

FQT Formal Qualification Test FR

Firing Room

Flight Rule

Frame

FRAGNET Fragmented Network FRB Failure Review Board

FRC Flight Research Center, California

FRCS Forward Reaction Control System (Subsystem)

FRD Flight Requirements Document

FRE Flight Related Element

Format Request Element

FREQ Frequency

FREQ CONV Frequency Converter FREQ DIV Frequency Divider FRF Flight Readiness Firing **FRFT** Flight Readiness Firing Test Forward Reaction Jet Driver **FRJD**

FRL Frame Reference Line

Fuselage Reference Line

FRMT Format

FRP Fuselage Reference Plane FRR Flight Readiness Review

FRRID Flight Readiness Review Item Description

Flight Readiness Review Item Disposition

FRSI Felt Reusable Surface Insulation

FRT Flight Readiness Test

Flight Readiness Training

Frequency ResponseTest

FRZR Freezer FS Fail-Safe FS Fail to Sync

Fault Summary
Federal Specification
Fire Suppression
Flight System
Freon Servicer
Full Scale

Functional Schematic Fuselage Station

FSAA Flight Simulator for Advanced Aircraft

FSC Federal Stock Classification

FSCM Federal Supply Code for Manufacturers

FSCP Fire Sensor Control Panel

FSD Flight Simulation Division (JSC)

Full Scale Development

FSE Flight Simulation Engineer

FSF First Static Firing

FSGS Flare/Shallow Glide Slope
FSI Final Systems Installation
FSIM Functional Simulator

FSIWG Flight System Interface Working Group

FSK Frequency Shift Keyed (Keying)
FSL Flight Simulation Laboratory

Flight Systems Laboratory

FSLO First Spacelab Payload
FSLT First Sea Level Test
FSM Fuel Supply Module
FSN Federal Stock Number

FSO Functional Supplementary Objective FSOH Flight Support Operations Handbook

FSP Fault Summary Page FSR Final System Release

Flight Specific Requirements

FSRR Flight Software Readiness Review

Flight System Readiness Review

FSRS Flight System Recording System

FSS Field Spectrometer System

Fire Suppression System

FSS Fixed Service Structure

Flight Support Station (for MMU)

Flight Support Structure Flight Support System Flight Systems Simulator

FSSR Flight Systems Software Requirements

Functional Subsystem Software Requirements

FSTE Factory Special Test Equipment

FSU Freon Servicing Unit
FSW Flight Software
FT Flight Team
Flight Test
Formal Training
Functional Test

ft Feet

FT&C Formal Training and Certification

ft/sec Feet per Second
FTA Fatigue Test Article
Fault Tree Analysis
Flight Test Article
FTC Flight Test Conductor

Florida Test Center (MDAC)

FTE Factory Test Equipment

Flight Test Engineer Forced Test End

FTIS Flight Test Instrumentation System

FTO Flight Test Objective

Functional Test Objective

FTOH Flight Team Operations Handbook

Flight Test Operations Handbook

FTP Flight Test Procedure

FTR

Full Throttle Position Function Test Progress Functional Test Program Flight Test Requirement

Functional Test Requirement

FTRD Flight Test Requirements Document

Functional Test Requirements Document

FTS Federal Telecommunications System

Flight Test Station Flight Test System

Functional Test Specifications

FU Flight Unit

Fuel

FUB Forward Utility Bridge

FUD First Use Date
FUNC Function
FUNCT Functional
FUO Follow-up Output

FUS Fuselage

FUS/LF Fuselage, Lower Forward FUS/UF Fuselage, Upper Forward

FUSLG Fuselage
FV Flight Version
Front View

FVF First Vertical Flight

FVMS Fluid Volume Measurement System

FVV Facility Verification Vehicle

FW Flag Word Fuel Wasting

FWB Fahrenheit Wet Bulb

FWD Forward

FWD HT SHLD Forward Heat Shield FWG Facility Working Group FWW Food, Water, and Waste

FWWM Food, Water, and Waste Management

FWWMS Food, Water, and Waste Management System (Subsystem)

FXD Fixed Fixed Fixed Year

G Giga (Billion)

Gravity

Units of Gravitational Force

Gram

G&A General and Administrative G&C Guidance and Control G&N Guidance and Navigation

G&NS Guidance and Navigation Subsystem

G-A Ground-to-Air G-G Ground-to-Ground

G-II Gulfstream II (Shuttle Training Aircraft)

G-MEM General Memory

> **GPC-Memory** Gravity-Velocity

G-V G/A Ground-to-Air G/E Graphite Epoxy G/G Ground-to-Ground

G/T Antenna Gain-to-Noise Temperature Ratio

GΑ Gage

> General Assembly Glide Angle Gyro Assembly

GA&CS Ground Acquisition and Command Station

GAC **Ground Attitude Control**

Grumman Aerospace Corporation

GACU Ground Air Conditioning Unit

Ground Avionics Cooling Unit

GAIN Graphic Aids for Investigating Networks

GAM Gamma

GAO General Accounting Office GAP **GOAL** Automatic Procedure GAPL **Group Assembly Parts List**

GAS Get-Away Special

GASPI Guidance Attitude Space Position Indicator **GATP** Ground Acceptance/Article Test Procedure

GATT Gate Assisted Turnoff Thyristor GBI Grand Bahama Island
GBL Government Bill of Lading

GBR Glass Bead Rating
GBS Ground Based Software
GC Gigacycles (1000 Megacycles)

Ground Control Guidance Control Gyrocompassing

GCA Ground Controlled Approach

GCC Ground Communications Coordinator

Ground Control Center

GCCC Ground Control Computer Center

GCCO Ground Control Checkout

GCD Gyro-Compass, Desired Cluster Orientation
GCDC Ground Checkout Display and Control

GCDCS Ground Checkout Display and Control System

GCE Ground Checkout Equipment
GCF Ground Communications Facility
GCHX Ground Cooling Heat Exchanger
GCI Ground Controlled Interception
GCIL Ground Control Interface Logic

GCILC Ground Command Interface Logic Controller

GCILU Ground Control Interface Logic Unit

GCL Ground Control Landing
Ground Coolant Loop

GCN Ground Communications Network (A/G Worldwide Net)

Ground Control Network

GCO Ground Checkout

GCOS General Computer Operational System

Ground Computer Operating System

GCR Ground Controlled Radar

GCS Ground Communications System

Guidance Cutoff Signal

GCTS Gas Component Test Stand

Ground Communication(s) Tracking System

GCU General Control Unit

Generator Control Unit Ground Cooling Unit

GCU Gyro Coupling Unit

GCV Gaseous Oxygen Control Valve

GD Guard

GDA Gimbal Drive Actuator/Assembly
GDBS Generalized Data Base System
GDC General Dynamics Convair

Gyro Display Coupler

GDP Generalized Documentation Processor

GDS GNC Dynamic Simulator

Goldstone, California (STDN)

GDSD Ground Data Systems Division
GDSM Ground Data Systems Manager
GDSO Ground Data Systems Officer
GDSSR GDSD Staff Support Room

GDX Goldstone, CA (STDN Site, 2nd Antenna)

GE General Electric

GECALL GCOS Program Element Name

GEDAC General Electric Detection and Automatic Correction

GEN Generate, Generator

GENOPAUSE Geodetic Satellite in Polar Geosynchronous Orbit

GEOD Geodetic

GEOSEPS General Summary Edit Program

Geosynchronous Solar Electric Propulsion Stage

GERT Graphical Evaluation and Review Technique

GES Goddard Experiment Support System

GESYOT GCOS Program Element Name

GET Ground Elapsed Time

GETI Ground Elapsed Time of Ignition

GETIL Ground Elapsed Time of Landing (for TIG of

Abort Burn)

GETS Ground Equipment Test Sets

GF Gage Factor

GF&P Gases, Fluids, and Propellants

GFAE Government Furnished Aerospace Equipment

Government Furnished Aircraft Equipment

GFD Government Furnished Data
GFE Government Furnished Equipment
GFM Government Furnished Material

GFP Government Furnished Property
GFRP Glass Fiber Reinforced Plastics
Graphite Fiber Reinforced Plastics

Government Furnished Software

GFY Government Fiscal Year

GG Gas Generator
Gravity Gradient

GFS

GH₂ Gaseous Hydrogen GHA General Housekeeping Area

Greenwich Hour Angle

GHC Ground Half Coupling

GHe Gaseous Helium

GHX Ground Heat Exchanger

GHz Gigahertz

GIA GPC Interface Adapter

GIDEP Government-Industry Data Exchange Program

GIE Ground Instrumentation Equipment
GIM Generalized Information Management

GIRD Ground Integration Requirements Document

GITG Ground Interface Technical Group
GIWG Ground Interface Working Group
GLAADS Gun Low Altitude Air Defense System

GLC Generator Line Contractor

GLD Glide Slope GLL Galileo

GLOW Gross Lift-Off Weight

Ground Lift-Off Weight

GLP Goal Language Processor

GLRSHLD Glare Shield

GLS Ground Launch Sequence (Sequencer)

GLY Glycol

Water-Glycol Mixture

GM Gaseous Mixture

Geometric Mean

GMAL General Electric Macro Assembly Language

GMBL Gimbal

GMCL Ground Measurements Command List

GMIL Spaceflight Tracking and Data Network (STDN)

Station (KSC)

GML General Measurement Loop
GMMC Ground Master Measurements List

GMN Gorman (TACAN Station)
GMT Greenwich Mean Time

GN Gain

GN₂ Gaseous Nitrogen

GN&C Guidance, Navigation, and Control
GNC Guidance and Navigation Computer

GNCFTS GN&C Flight Test Station
GNCIS GN&C Integration Simulator

GNCS Guidance and Navigation Control System

GNCTS GN&C Test Station

GND Ground

GND C/O Ground Checkout
GNP Gross National Product

GO General Order
GO₂ Gaseous Oxygen

GOAL Ground Operations Aerospace Language

GOC Ground Operations Coordinator
GOCA Ground Operations Control Area
GOE Ground Operating Equipment

GOES Geostationary Operational Environment Satellite

Geosynchronous Operational Environmental Satellite

GOM KSC Ground Operations Manager at DFRC or WSMR
GOMMS Ground Operations and Material Management System

GOMS Ground Operations Management System

GOP Ground Operations Panel

GOPG Ground Operations Planning Group

GOR Ground Operations Review

GORP Ground Operations Requirements Plan

Ground Operations Review Panel

GORS Ground Observer RF System
GOSS Ground Operations Support System

GOWG Ground Operations Working Group

GOX Gaseous Oxygen (GO₂)
GP General Publication (KSC)

GP General Purpose

Group

GPA General Purpose Amplifier

GPAS General Purpose Airborne Simulator
GPBIM General Purpose Buffer Interface Module

GPC Gel Permeation Chromatograph

General Purpose Computer

GPCB GOAL Program Control Block

GPD Gimbal Position Display

GPH Gallons per Hour

GPI Gimbal Position Indicator

Ground Position Indicator

GPL General Purpose Laboratory

Goal Processing Language

GPM Gallons per Minute

GPME General Purpose Mission Equipment
GPRN GOAL Test Procedure Release Notice

GPS Gallons per Second

General Processing Subsystem Global Positioning Satellite Global Positioning System Ground Power Supply

Ground Processing Simulation
GPSS General Purpose System Simulator
GPTE General Purpose Test Equipment

GPU Ground Power Unit

GPUR GOAL Test Procedure Update Request

GR Ground Rule

GRE Gamma Ray Explorer

GRID Graphic Retrieval and Information Display

GRN Green

GRO Gamma Ray Observatory
GRTLS Glide Return to Landing Site

Glide Return to Launch Site

GS Gas Servicer

Glide Slope Ground Speed Ground Station GS **Ground System**

General Services Administration GSA

GSAT General Satellite (STS) **GSCU** Ground Service Cooling Unit

GSDL Ground Software Development Laboratory

GSE **Ground Servicing Equipment**

Ground Support Equipment

GSEL Ground Support Equipment List

GSFC Goddard Space Flight Center (Greenbelt, MD)

GSI Glide Slope Indicator

Government Source Inspection

GSIU Ground Standard Interface Unit

GSO Ground Support Office

Ground Support Operations

Ground Systems Operations

GSS **Ground Support Software**

Ground Support System

GSSA Ground Support Systems Activation GSSC Ground Support Simulation Computer

Ground Support Systems Contractor

GSSI Ground Support System Integration

GST Ground System Test GSTAR General Satellite (ELV)

GSTDN Ground Space Flight Tracking and Data Network

Ground Spacecraft Tracking and Data Network

GSTF Ground Systems Test Flow

GSU Gas Servicer Unit

GSVP Ground Support Verification Plan

GT Greater Than

Ground Team Ground Test Gyro Torque

Ground Test and Acceptance

GT&A **GTA** Gas Tungsten Arc

> **Ground Test Access Ground Test Article**

Ground Torquing Assembly

GTC Glycol Trim Console GTC Ground Test Conductor

GTCU Ground Thermal Conditioning Unit

GTI Grand Turk Island

Ground Test Instrumentation

GTM Ground Team Manager

Ground Test Motor

GTS General Test Support

GN&C Test Station
GNS Test Station

GTU Glycol Trim Unit

GUCP Ground Umbilical Carrier Plate

GUID Guidance

GUIDO Guidance Officer
GUL GSE Utilization List
GUSB Guided Unified S-Band

GVA GOX Vent Arm

GVO Gaviota (TACAN Station)
GVT Ground Vibration Test
GVTA Ground Vibration Test Article

GW Gross Weight
GWA General Work Area
GWM Guam (STDN)
GWT Ground Winds Tower

GYM Guaymas, Mexico (Remote Site)

GYRO Gyroscope GYROA Gyro A

GYROCOMP Gyrocompassing

H Altitude

Hazardous (Task Classification)

Head

Henry (\$1 Unit)

High Horizontal Hot Hours

Momentum Altitude Rate

(H) Hazardous (Task Classification)

H₂ Hydrogen H₂O Water

Ĥ

H-CITE Horizontal-Cargo Integration Test Equipment

H/E Heat Exchanger

H/L Hardline H/O Handover H/S Heat Shield

H/S IR Hardware/Software Integration Review

H/T Heat Treat
H/W Hardware
HA Apogee Altitude

Hazard Analysis High Altitude

HAA High Altitude Abort

HAB Habitation

HAC Heading Alignment Circle

Heading Alignment Cone Heading Alignment Cylinder

HAD Heat Actuated Device
HAFB Holloman Air Force Base
HAK Horizontal Access Kit

HAL High Order Articulated Language

High Order Assembly Language
Houston Aerospace Language

HAL/S High Order Assembly Language for Shuttle Flight

Computer

High Order Assembly Language/Shuttle

High Order Programming Language for Spacelab Usage

HAM Height Adjustment Maneuver
HAP Hardware Allocation Panel
HAS Holddown Alignment Support
Hydraulic Actuation System

Hydrogen Actuation System

HAST High Altitude Supersonic Target

HAW Hawaii (STDN) HB Handbook High Bay

HBR High Bit Rate

HBT Heflex Bio-Engineering Test

HBW Hot Bridge Wire
HC Hand Controller
Head Count
Hybrid Computer

Hand Controller Engage Driver

HCF High Cycle Fatigue

HIM Configuration File Horizontal Centerline

HCL Horizontal Centerlin
HCM Hard Copy Module

HCMM Heat Capacity Mapping Mission

HCR High Cross Range

HCSI Hughes Communications Services, Inc.

HCSL Hybrid Computation and Simulation Laboratory

HCU Hydraulic Charging Unit HCV Hydrogen Check Valve

HD Heavy Duty

Highly Desirable Holddown

Horizontal Drain Hydrogen Drain

HDA Housekeeping Data Acquisition

HDC Hasselblad Data Camera

Hybrid Device Controller

HDDR High-Density Digital Recorder

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HCED

HDG HeadingHDP Holddown PostHDQ HeadquartersHDR High Data Rate

HDRA High Data Rate Assembly
HDRM High Data Rate Multiplexer
HDRR High Data Rate Recorder
HDRSS High Data Rate Storage System
HDS Hardware Description Sheet

HDST Headset
HDW Hardware
HDWE Hardware

HE Heat Exchange (Exchanger)

High Energy Astrophysics

He Helium

HEAO High Energy Astronomy Observatory

HEAP High Energy Aim Point HECV Helium Check Valve

HEG Helium Gage HEGV Helium Gage Valve

HEMI Hitchhike Experiment Module
HEMI Hemispherical (S-Band Antenna)

HEMV Helium Manual Valve HEO High Energy Orbit

HEPA High Efficiency Particle Accumulator

High Efficiency Particle Air (Filter)

HER HIM Equipment Rack

HERSCP Hazardous Exposure Reduction and Safety Criteria Plan

HESS High Energy Squib Simulator HETM Hybrid Engineering Test Model

HEX Heat Exchanger

Hexadecimal

Hexagon

HF Hard Failure

High Frequency Horizontal Flight Hot Firing

Hydrogen Fill

HF Hyperfiltration

HFA High Frequency Accelerometer
HFC Heat Flow and Convection

Hydraulic Flight Control

HFCT Hydraulic Flight Control Test
HFCV Helium Flow Control Valve

HFDS Hydrogen Fluid Distribution System

HFE High Frequency Executive
HFM Hollow Fiber Membrane
HFMU High Fidelity Mockup
HFO High Frequency Oscillator
HFS Horizontal Flight Simulator
HFT Horizontal Flight Test

HFTF Horizontal Flight Test Facility
HFTS Horizontal Flight Test Simulator
HFX High Frequency Transceiver

HG High Gain Hq Mercury

HGA High Gain Antenna

HGDS Hazardous Gas Detection System

HGM Hot-Gas Manifold

HGR Hangar

HGR&SPTFAC Hangar and Support Facility

HGS Hydrogen Gas Saver HGV Hydrogen Gas Valve

HGVT Horizontal Ground Vibration Test

HHC Hammer Head Crane

HHMU Hand Held Maneuvering Unit

HI High

Honeywell, Inc.

HIC Hickam Air Force Base, Hawaii (Deorb OPT site)

HID Hardware Interface Device

HIM Interface Distributor

HIM Hardware Interface Module
HIP Hardware Interface Program
HIPC High Chamber Pressure

HIPO Hierarchical Input/Process Output

Hierarchy Plus Input/Process/Output

HISAM Hardware Initiated Standalone Memory

HIST History

HITS High Rate Multiplexer Input/Output Test System

HIU Headset Interface Unit
HIV Helium Isolation Valve

HK Housekeeping HL Hardline

> Heel Line High Level Hinge Line Hydrogen Line

HLAL High Level Assembler Language

HLD Hold

HLDS Hydrogen Leak Detection System

HLMT Helmet

HLTL High Level Test Language

HM Hinge Mount

HMA Hypergol Maintenance Area

HMC Hybrid Microcircuit

Hypergolic Maintenance and Checkout
Hypergolic Maintenance and Checkout Cell

HMCC Hypergolic Maintenance and Checkout Cell
HMCF Hypergolic Maintenance and Checkout Facility

HMD Helmet-Mounted Display
HMF Horizontal Mating Facility
Hypergol Maintenance Facility

HMP Hydrozene Monopropellant (RCS Propellant)

HMS History Memory System
HMU Hardware Mockup
HMV Hydrogen Manual Valve

HNDLER Handler HNGR Hangar

HO Hydrogen-Oxygen HOL High Order Language

HOLC High Order Language Computer

HORIZ Horizon, Horizontal
HOS High Order Software

HOSC Huntsville Operations Support Center

HP Handling Procedure

HP Hewlett Packard

High Pressure Hydrogen Purge Perigee Altitude

HPF Horizontal Processing Facility (O&C)

HPFTP High Pressure Fuel Turbopump

HPG High Pressure Gas

HPGS High Pressure Gas System
HPI High Performance Insulation
HPOP High Pressure Oxidizer Pump
HPOT High Pressure Oxidizer Turbopump

HPOTP High Pressure Oxidizer Turbopump
HPPF Horizontal Payloads Processing Facility

HPR Hydrogen Pressure Regulator
HPRV Hydrogen Pressure Relief Valve

HPS Hydraulic Power System
HPT High Pressure Test
HPU Hydraulic Power Unit
HPV High Pressure Valve

HQ Headquarters (HDQ preferred)

HQR Handling Qualities Rating (Cooper-Harper)

HR Historical Record

Hydrogen Relief

hr Hour

HRAA High Rate Acquisition Assembly

HRC Hasselblad Reflex Camera
HRD High Rate Dosimeter
HRDA High Rate Data Assembly
HRDM High Rate Demultiplexer
HRDR High Rate Digital Recorder
HRDS High Rate Data Station

HRIR High Resolution Infrared Radiometer

HRL Horizontal Reference Line
HRM High Rate Multiplexer

High Ratio Multiplier

HRPS Hazard Reduction Precedence Sequence

HRS Hours

HRSI High Temperature Reusable Surface Insulation

HRT High Resolution Tracker

HS Heat Shield

High Speed

Horizon Sensor

HS-C Hamilton Standard CO₂ Absorbent Material

HSC Hardware/Software Coordination
HSCU Hydraulic Supply and Checkout Unit

HSD Hamilton Standard Division

High Speed Data

Horizontal Situation Display

HSDL High Speed Data Line
HSF Hypergol Servicing Facility
HSG High Sustained G's Acceleration
HSI Horizontal Situation Indicator

HSK Horizontal Sling Kit

HSL Hardware Simulation Laboratory

HSNG Housing

HSP Health Stabilization Program

High Speed Printer

HSR Hardware Status Register

High Speed Reader

HSS High Stress Strain

Hydraulic Subsystem Simulator

HSTP Hard Stop

HSU Helium Service Unit

HT Heat Transfer

Height

High Technology

HT EXCH Heat Exchanger

HTC Hybrid Technology Computer

HTG Heating

HTLL High Test Level Language

HTM High Temperature

HTPB Hydroxyl Terminated Polybutadiene (Propellant)

Hydroxyl Terminated Polybutylene

HTR Heater

HTS Heat Transfer System

Heat Transport Section

HUD Head Up Display

HUDE Head Up Display Electronics
HUL Hardware Utilization List

HUM Humidity

HUT Hard Upper Torso HV High Velocity

High Voltage Hydrogen Vent

HVAC Heating, Ventilating, and Air Conditioning
HVDS Hypergolic Vapor Detection System

HVPS High Voltage Power Supply

HVR Hover

HVSF Honeywell Verification Simulation Facility

HVSL Holidays, Vacation, and Sick Leave

HW Hardware Headwind

Hotwire

HW/SW Hardware/Software

HWWS Hyperfiltration Wash Water Recovery System

HX Heat Exchanger

HXIS Hard X-ray Imaging Spectrometer

HYD Hydraulic Subsystem

Hydraulics

HYGL Hypergolic

HYPACE Hybrid Programmable Attitude Control Electronics

Hz Hertz (Cycles per Second)

I Inertias

Inner Iodine

Irradiated

I LOAD Initialization Load

1&C Installation and Checkout

Instrumentation and Communication

1&C/O Installation and Checkout

I&O Inlet and Outlet

1&R Interchangeability and Replaceability

Interchangeability and Replacement

I&RS Instrumentation and Range SafetyI&S Interchangeability and Substitutability

I&T Integration and TestI-LOS Initial Data LoadI/A Interface Adapter

I/C Intercom
I/F Interface
I/FU Interface Unit
I/O Input/Output
I/OB Input/Output Bus
I/OC Input/Output Controller

I/OMI Integration/Operations and Maintenance Instruction

I/OP Inboard/Outboard Profile

I/OT Input/Output Test I/OU Input/Output Unit

I/P In Progress
I/T Intertank
I/V Inlet Valve

IA Implementation Agency

Input Axis

Inverter Assembly Issuing Agency

IAA International Aerospace Abstracts

IAB IUS Assembly Building IAC Interface Adapter Unit

IACS Inertial Attitude Control System
IAD Interface Agreement Document

Interface Analysis Document

IAL Immediate Action Letter

International Algebraic Language Instrumentation and Communication Independent Air Revitalization System

IARS Independent Air Revitaliza
IAS Impact Assessment Sheet

Indicated Airspeed

Integrated Avionics System

IASS Inverter/ATCS Support Structure

IAT Integrated Avionics Test

IAV Inventory Adjustment Voucher

IB Inboard

landC

Inert Building

Instruction Book

IBF Internally Blown Flap

IBM International Business Machines

IC Incremental Cost

Information Center Initial Condition Integrated Circuit

Intercom (Orbiter to Ground via Hardline)

Intercommunications

Intercomputer
Interim Change
Internal Combustion

Ion Chamber

IC/ES Intercommunication/Emergency Station

ICA Item Change Analysis

ICAO International Civil Aviation Organization
ICAR Investigation and Corrective Action Report

ICB Interim Change Bulletin

Interrupt Control Block

ICC Intercomputer Channel

Intercomputer Communication

Interface Control Chart

Interstate Commerce Commission

ICCB Integrated Change Control Board

ICCP Interface Coordination and Control Procedure

ICD Interface Control Document

Interface Control Drawing

ICDR Incremental Critical Design Review

ICDU Inertial Coupling Data Unit ICE Input Control Element

Instrument Checkout Equipment

Instrument/Communication Equipment

ICF Interface Control Function ICG In-Flight Coverall Garment

ICH Interchanger

ICIO Interim Cargo Integration Operations

ICMO Integrated Configuration Management Office

ICMS Indirect Cost Management System
ICMT Intercontract Material Transfer

ICO Integrated Checkout ICOM Intercommunications

ICOS Improved Crew Optical Sight
ICOU Inertial Coupling Data Unit
ICP ICS Control Program

Inventory Control Point

ICR Instruction Change Request

Interface Compatibility Record

ICS Instrumentation Control System

Intercommunication System
Interface Control Specification
Interpretive Computer Simulator

ICT Influence Coefficient Tests

Interface Control Tooling

ICTC Inertial Components Temperature Controller

ICU Interface Control Unit

ICW Interrupted Continuous Wave
ICWG Interface Control Working Group

ID Identification

Identification Data Inside Diameter Interface Document ID&CA Inverter Distribution and Control Assembly

IDA Interface Display Assembly

IDAC Integrated Digital-Analog Converter IDAS Integrated Data Acquisition System

IDB Insuit Drink Bag

IDC IMBLMS Digital Computer

Integrated Displays and Controls
Interface Document Control

IDCA Inverter Distribution and Control Assembly

IDD Interface Definition Document(s)

IDE Initial Design Evaluation
IDG Integrated Drive Generator
IDI Instrumentation Data Items

IDMM Intermediate and Depot Maintenance Manual

IDO Interdivisional Operations
IDP Integrated Data Processor
IDPS Interface Digital Processor
IDR Initial Design Review
Interim Discrepancy Repor

Interim Discrepancy Report Intermediate Design Review

IDRD Information Definition Requirements Document

Internal Data Requirement Description

IDS Interface Data Sheet

Item Description Sheet

IDSD Institutional Data System Division (JSC)

IDSO Interdivisional Sales Order

IDT I-load Data Tape

IDTA Interdivisional Technical Agreement
IDU Interface Demonstration Unit
IDWA Interdivisional Work Authorization

IE Industrial Engineering

IEA Integrated Electronic Assembly

IECM Induced Environment Contamination Monitor

IECO Inboard Engine Cutoff

IECS Igloo Environment Control Subsystem
IED Interacting Equipment Documents

IEF Isoelectric Focusing

IEP Instantaneous Effective Photo Cathodes

IF Integration Facility

IF Intermediate Frequency

IFA In-Flight Analyses

Interface Functional Analysis

IFASC Integrated Functions Assessment Steering Committee

IFB Invitation for Bid
IFM In-Flight Maintenance
IFO Information Systems Office
IFOT In-Flight Operations and Training

IFR Instrument Flight Rules
IFRU In-Flight Replacement Unit

IFT In-Flight Test

Interface Tool

IFTM In-Flight Test Maintenance
IFTS In-Flight Test System

IFU Interface Unit

IG Igloo

Inertial Guidance Inner Gimbal Instrument Ground Instrumentation Group Inner Gimbal Angle

IGA Inner Gimbal Angle IGAX Inner Gimbal Axis

IGDS Iodine Generating and Dispensing System

IGM Interactive Guidance Mode

Iterative Guidance Mode

IGN Ignition, Ignite

IGOR Intercept Ground Optical Recorder

IGS Inertial Guidance System

Inner Glideslope

IGSE In-Space Ground Support Equipment

Instrument Group Support Equipment

IGV Inlet Guide Valve/Vanes

IH/SR Integration Hardware and Software Review

IHP Indicated Horsepower

IHTV Interim Hypersonics Test Vehicle

IHX Interloop Heat Exchanger
 II Implementation Instructions
 IIS Inspection Item Sheet

IITCS Igloo Internal Thermal Control Section

ILA Instrument Landing Approach

ILAS Instrument Landing Approach System

ILC Initial Launch Capability

International Latex Corporation

ILCCS Integrated Launch Control and Checkout System

ILLUM Illuminate

ILP Integrated Logistics Panel
ILS Instrument Landing System

Integrated Logistics Support Integrated Logistics System

ILS/LAR Integrated Logistics System and Logistics Assessment

Review

ILSP Integrated Logistics Support Plan

ILSSE Integrated Life Science Shuttle Experiments

IM Information Memory

Inner Maker Interface Module Intermediate Moisture

IMBLMS Integrated Medical Behavioral Laboratory Measurement

System

IMCC Integrated Mission Control Center
IMCP Integrated Monitor and Control Panel

IMD Intermediate

IMDB Integrated Maintenance Data Base

IMF Inventory Master File
IML Inside Mold Line

IMP Initial Memory Protection

IMPD Impedance IMPL Implement IMPLS Impulse

IMS Information Management System

Inventory Management System

IMU Inertial Measurement Unit

Internal Measurement Unit

IN Information Systems Directorate (KSC)

Inlet

in. Inch

150

INBD Inboard
INBIT Input Bit
INC Incomplete
Increase

Installation Notice Card

Installation Notification Certificate

INCL Inclination

Include

INCLN Incline

INCO Instrumentation and Communication Officer

INCR Increase Increment

IND Indicate, Indicator

Industrial

INDAT Incoming Data

INF Infinite

INFT Informal Training

INH Inhibit
INIT Initial
Initiate
INJ Inject
INL Inlet

INOP Inoperative INP Input

INR Inertial Reference

INRTL Inertial

INRTL VEL Inertial Velocity

INS Inertial Navigation System

Insertion Burn, OMS1

INSAT Indian National Satellite

INSL Insulate

INSP Inspect, Inspection

INSRP Inter-Agency Network Safety Review Panel

INST Instrument

INST SYS Instrumentation System

INST/COMM Instrumentation and Communication

INSTL Install, Installation

INSTL&C/O Installation and Checkout

INSTR Instruct

Instrument, Instrumentation

INSTRUM Instrumentation Subsystem

INT Integrated Test

Intensity Internal

INTASAT Instituto Nacional De Technica Aeroespacial Satellite

INTC/O Integrated Checkout

INTCHG Interchange INTCHGR Interchanger INTCP Intercept

INTEGR Integrate, Integration

INTELSAT International Telecommunications Satellite Organization

Interrogate INTEROG Interface INTF Integration INTG Interlock INTLK INTR Interior Interrogate INTRG INTRLVR Interleaver Interrupt INTRPT

INTV Interim Hypersonics Test Article

INTVL Interval

INTVLM Intervalometer INV Inverter

INV MGT Inventory Management

IO Industrial Operations (MSFC)

IOA Input/Output Adapter

Input/Output or Assembly

IOB Input/Output Box

Input/Output Buffer

Input/Output Buffer (if Bus ≠)

IOBPS Input/Output Box and Peripheral Simulator

IOC Indirect Operating Costs

Initial Operational Capability Input/Output Controller

IOCU Input/Output Control Unit
IOE Input/Output Error Log Table
IOF Initial Operational Flight

IPS International Pipe Standard

Inverter Power Supply

IPSL Interface Problem Status Log

IPT In-Plant Transporter

International Pipe Thread

IPTCS Igloo Passive Thermal Control Section IR Inclination of the Ascending Return

Infrared

Inner Roll Gimbal Inside Radius

International Rendezvous Infrared Spectrometer

IRAN Inspection and Repairs as Necessary

IRANSAT Iranian Government Communications Satellite (replaces

IRAN)

IRAR Internal Variable

IR SPECT

IRIG-B

IRME

IRD Information Requirements Document

Initiating Reference Document

IRG Inertial Rate Gyro

IRIG Inertial Rate Integrating Gyro

Inertial Reference Integrating Gyro Interrange Instrumentation Group Interrange Instrumentation Group B

IRIS Italian Research Interim Stage
IRL Initiating Reference Letter
Interface Requirement List

Initiator Resistance Measuring Equipment

IRN Interface Revision Notice
IRR Inspection Rejection Report

Integral Rocket Ramjet

IRTCM Integrated Real-Time Contamination Monitor

IRU Inertial Reference Unit IRV Isotope Reentry Vehicle IS Installation Support Interconnecting Station

Interim Stowage Assembly

ISC Initial Software Configuration Map

ISD Instructional Systems Development (USAF)

ISA

IOM Input/Output Module

IOP In-Orbit Plane

Input/Output Port Input/Output Processor Integrated Operation Plan

IOPL Integrated Open Problem List IOQE Input/Output Queue Element IOS Indian Ocean Ship (STDN)

Input/Output Supervision
Instructor Operator Station

IOSC Integrated Operations Support Center

IOU Input/Output Unit
IP Identification of Position

Igloo Pallet Impact Point Inertial Processing Instructor Pilot

Instrumentation Payload
Instrumentation PCM Data Bus

Intermediate Pallet
Intermediate Pressure

IPACS Integrated Power and Attitude Control System
IPAD Integrated Program for Aerospace Vehicle Design

IPB Illuminated Push Button
Illustrated Parts Breakdown

IPC Intermittent Positive Control

IPCL Instrumentation Program and Component List

IPD Information Processing Division

IPDR Incremental Preliminary Design Review

IPE Industrial Plant Equipment
IPF IUS Processing Facility
IPL Indentured Parts List

Initial Program Load

IPR Interim Problem Report IPS Inches per Second

Instrument Pointing System (Subsystem)

Instrumentation Power Subsystem

Interface Problem Sheets

ISI Initial Systems Installation

Instrumentation Support Instruction

ISIL Interim Support Items List
ISL Inertial Systems Laboratory

ISL/LAR Integrated Logistics System and Logistics Assessment

Review

ISLM Integration Shop/Lab Manager

ISO International Standardization Organizations

ISOL Isolate, Isolation

ISP Initial Specific Impulse

Instrumentation Support Plan

Integrated Support Plan

ISPG Institutional Support Planning Group
ISPM International Solar Polar Mission

ISR Initial System Release ISS Inertial Subsystem

ISSL

IST

Inhibit/Override Summary Snapshot Display

Installation Support Services
Instruction Summary Sheet
Integrated System Schematic
Initial Spares Support List

Instrumentation Support Team

Integrated Systems Test

ISTA Intertank Structural Test Assembly
ISTB Integrated Subsystem Test Bed
ISTF Integrated System Test Flow
ISU International System of Units
IT Identification Transponder

Installation Test

ITA Integrated Test Area

ITAP Integrated Technical Assessment Panel

ITC Igloo Thermal Control

ITE Instrumentation Test Equipment

Integration Test Equipment

Intersite Transportation Equipment

ITI Inspection and Test Instruction ITL Integrate, Transfer, and Launch

ITMG Integrated Thermal/Micrometeoroid Garment

ITO Integration and Test Order

ITRDS Integrated Test Requirements Documents
ITS Instrumentation Telemetry Station

Interim Teleprinter System

IU Instrument Unit

IUA

Interface Unit

Inertial Unit Assembly

Interface Unit Adapter

IUCS Instrumentation Unit Update Command System

Instrumentation Update Command System

IUE Interface Unit Error Count Table

International Ultraviolet Explorer

IUS Inertial Upper Stage (was Interim Upper Stage)

Interim/Intermediate Upper State

Interim Use Sheet Interior Upper Stage

IV Initial Velocity

Integrated Vehicle Interface Volume

Intravehicular

IVA Intravehicular Activity
IVAK Igloo Vertical Access Kit

IVAR Internal Variable

IVBC Integrated Vehicle Baseline Configuration

IVC Intervehicular Communications
IVE Interface Verification Equipment

IVL Intervalometer

IVSI Instantaneous Vertical Speed Indicator

IVT Intervehicular Transfer

IWBS Indirect Work Breakdown Structure

IWG Interface Working Group

Investigator Working Group

J Joule (SI Unit)
J/M Jettison Motor

JAEIC Joint Atomic Energy Intelligence Committee

JAN Joint Army-Navy

JAS Journal of Aerospace Science

JB Junction Box

JCL Job Control Language
JCP Joint Power Conditions

JCT Junction

JED Julian Ephemeris Data

JETS Joint Electronics Type (Designation) System

JETT Jettison

JIR Job Improvement Request
JIS Joint Integrated Simulation

JO Job Order

JOC Joint Operations Center
JOD Joint Occupancy Data
Joint Occupancy Date

JOIP Joint Operations Interface Procedure

JOP Joint Operating Procedure

Jupiter Orbiter Probe-Galileo

JOR Job Order Request

JOVIAL Joules Own Version International Algebraic Language

JP Jet Propellant

Jet Propulsion

JPC Joint Power Condition

JPIC Joint Program Integration Committee

JPL Jet Propulsion Laboratory
JPOC JSC Payload Operations Center

JPP Joint Program Plan JRB Joint Review Board

JSC Johnson Space Center (formerly MSC)

JSCM JSC Manual
JSL Jet Select Logic

JSLWG Joint Spacelab Working Group

JST Joint Systems Test

JTA Job Task Analysis
JTG Joint Training Group

JURG Joint Users Requirements Group

K Kelvin

k

Kilocycle One Thousand Kilo (1000)

K&H Memory Time Value

K-APM KSC Automated Payloads Plan/Requirement

K-APN KSC Automated Payloads Notice

K-APPS KSC Automated Payloads Project Specification

K-BAND 10,900 to 36,000 MCS
K-CITEM KSC CITE Plan/Requirement
K-DODM KSC DOD Plan/Requirement

K-DPM KSC DOD Payloads Plan/Requirement

K-DPN KSC DOD Payloads Notice

K-DPPS KSC DOD Payloads Project Specification

K-IUSM KSC IUS Plan/Requirement

K-IUSN KSC IUS Notice

K-IUSPS KSC IUS Project Specification K-MMSEM KSC MMSE Plan/Requirement

K-MMSEN KSC MMSE Notice

K-MMSEPS KSC MMSE Project Specification K-SLM KSC Spacelab Plan/Requirement

K-SLN KSC Spacelab Notice

K-SLPS KSC Spacelab Project Specification
K-SM KSC Shuttle Management Document

K-SPN KSC Shuttle Project Notice

K-SPS KSC Shuttle Project Specification

K-SSS KSC Shuttle Project Station Set Specification

K-STSM KSC STS Plan/Requirement

K-STSN KSC STS Notice

K-STSPS KSC STS Project Specification

K/S Kick Stage

KAD Kadena AB, Ryuku Islands (Deorb OPT Site)

KAPL KSC Approved Parts List
KATS Kennedy Avionics Test Set
KAU Kilo Accounting Unit

KB Keyboard

KB Kilobit

KBAC Kennedy Booster Assembly Contractor

KBIM Keyboard Interface Module

KBPS Kilobits per Second KBU Keyboard Unit kcal Kilocalorie

KCAS Knots Calibrated Airspeed
KCRT Keyboard Cathode Ray Tube
KCS Keyboard Configuration Studies
KDMS Kennedy Data Management System(s)

KDN Kinetically Designed Nozzle
KDT Keyboard and Display Test
KDU Keyboard and Display Unit
KEAS Knots Equivalent Airspeed

kg Kilogram

kgal/min Kilogallons per Minute KHB KSC Handbook

kHz Kilohertz

KIAS Knots Indicated Airspeed
KIP Keyboard Input Processor
KIS Kitting Instruction Sheet

klb Kilopounds km Kilometers

KMI KSC Management Instruction KMR Kwajalein Missile Range

KMS K-Words X Millions of Seconds

KN Kitting Notice
KSC Notice

KNO Kano, Nigeria (Remote Site)
KOI KSC Operation Instruction
KOM KSC Organizational Manual

KOPS Thousand of Operations per Second

KPD KSC Program Directive KPPS Kilopulses per Second

KPRD KSC Program Requirements Document

KPS Kilometers per Second KSA Ku-Band Single Access

KSC John F. Kennedy Space Center
KSCAP Kennedy Space Center Area Permit

160

KSSS KSC Station Set Specification

KT Kit Knots

KU Keyboard Unit

KU-BAND 15.250 to 17.250 GHz KUSP Ku-Band Signal Processor

Ku-Band Single Processor

kV Kilovolt

kVA Kilovoltampere

kW Kilowatt

kWh Kilowatt Hours KYBD Keyboard L Launch

Left
Length
Level
Low
Lumen

L&C Laboratory and Checkout L&D Landing and Deceleration L&L Launch and Landing L&S Logistics and Support L&T Laboratory and Test L-BAND 390 to 1550 MHz L-L Line-to-Line L-P Low Pressure

L/D Length-to-Diameter Lift-to-Drag (Ratio)

L/H Local Horizontal

L/O Lift-Off L/S Landing Site

Load System

L/T Load Test
LA Lanthanum

Launch Abort
Launch Aft
Launch Area
Launch Azimuth
Lightning Arrester
Low Attitude

LAAD Los Angeles Aircraft Division (Rockwell)

LACB Landing Aids Control Building (SLF at KSC)

LACIE Large Area Crop Inventory Experiment

LACIP Large Area Crop Inventory Program

LAGEOS Laser Geodynamic Satellite
LAGS Launch Abort Guide Simulation

LAIR Liquid Air

LAIU Launch Abort Interface Unit

162

LAN Local Area Network

LAPS Left Aft Propulsion System (Subsystem) LaRC Langley Research Center (Hampton, VA)

Laminar Angular Rate Sensor LARS

LARSSYAA Laboratory for Application of Remote Sensing System

for Aircraft Analysis

LASCOT Large Screen Color Television System LASV Low Altitude Supersonic Vehicle

LAT Large Angle Torque

> Latch Lateral Latitude

Lot Acceptance Test

LATS LDEF Assembly and Transportation System

LB Launch Boost

> Launch Bus Load Bank Low Bay Lower Brace

lb Pound

LBDT Low Bay Dolly Tug

LBK Left Bank

Left Buttock Line LBL LBM Load Buffer Memory

LBNPD Lower Body Negative Pressure Device

LBR Low Bit Rate LC Launch Complex Launch Countdown Launch Critical

Left Center

LCA Launch Control Amplifier

Load Controller (Control) Assembly

LCB Least Common Bit LCC Launch Commit Criteria Launch Control Center

Life Cycle Cost

LCCD Launch Commit Criteria Document

LCD Launch Countdown LCF Low Cycle Fatigue
LCG Liquid Cooled Garment

LCH Latch Launch

LCHTF Low Cycle High Temperature Fatigue

LCL Local

LCM Least Common Multiple
LCMS Low Cost Modular Spacecraft
LCO MMC Uniform Central Number
LCOM Logic Control Output Module

LCR Low Cross Range
LCS Launch Control System
List of Command Signals

LCU Launch Countdown LCU Line Coupling Unit

LCUG Liquid Cooling under Garment

LCVG Liquid Cooling and Ventilation Garment

LD Lateral Direction
Loading Dock

LDB Launch Data Bus Logistics Data Bank

LDEC Lunar Docking Events Controller
LDEF Long Duration Exposure Facility

LDG Landing

LDIU Launch Data Interface Unit

LDMK Landmark
LDR Low Data Rate

LDS Landing/Deceleration Subsystem

Landing, Deservicing, and Safing

Loads

LDT Linear Displacement Transducer

LE Launch Escape Leading Edge

LEA Logistics Engineering Analysis (Analyses)

LEB Lower Equipment Bay

LEC Lockheed Electronics Company

LED Light Emitting Diode
LEH Launch/Entry Helmet

LEM Laboratory Environment Model

Launch Escape Monitor

LEO Low Earth Orbit

LER Long Eye Relief (Optics)

LeRC Lewis Research Center (Cleveland, OH)

LES Launch Equipment Shop

Launch Escape Subsystem

LESS Leading Edge Structure Subsystem

Leading Edge Subsystem

LETF Launch Equipment Test Facility

LF Launch Facility

Launch Forward Left Forward Load Factor

Low Frequency

LFAF Low Frequency Accelerometer Flutter
LFAM Low Frequency Accelerometer Modes
LFAP Low Frequency Accelerometer Pogo

LFC Large Format Camera
LFO Low Frequency Oscillator

LFOP Landing and Ferry Operations Panel

LFRR Low Frequency Radio Range

LG Landing Gear

Length

LGA Low Gain Antenna

LGIU Laser Gyro Interface Unit

LH Left Hand
LH₂ Liquid Hydrogen
LHA Local Hour Angle
LHC Left Hand Circular

LHCP Left Hand Circular Polarization

Left Hand Circularly Polarized

LHe Liquid Helium
LHP Left Hand Panel
LHS Left Hand Side
Li Lithium

LIB Left Inboard

LIC Load Interface Circuit

LID Leadless Inverted Device

Logistics Identification Document

LIDAR Laser-Radar

LIE Left Inboard Elevon

LIM Limit

LIMRC LRU Identification and Maintenance Requirements Catalog

LIMS Logistics Inventory Management System

LIN Linear

Liquid Nitrogen

LINJET Liquid Injection Electric Thruster

LiOH Lithium Hydroxide

LIQ Liquid LK Leak Lock

LL Launch and Landing

Launch Left
Lever Lock
Long Lead
Long Line
Low Level
Lower Left
Lower Limit

LLCF Launch and Landing Computational Facilities

LLI Limited Life Item
LLIL Long Leadtime Items List

LLOS Landmark Line-of-Sight
LLP Launch and Landing Project
LLPO Launch and Landing Project Office

LLS Launch and Landing Site

LLT Long Leadtime
LM Left Mid
Long Module

LME Launch Monitor Equipment

LMF Lower Mid-Fuselage
LMG Left Main Gear

LMK Landmark

LMP List of Measurement Points
LMS Load Measurement System

LMS Logistics Master Schedules

LMSC Lockheed Missiles and Space Corporation

LN Line

 LN_2 Liquid Nitrogen

LNČH Launch **LNDG** Landing

LNG Liquefied Natural Gas LO Launch Operations Local Oscillator

Lock-On

 LO_2 Liquid Oxygen

LOĀ **Landing Operations Area**

Launch Operations Area

LOAP List of Applicable Publications

LOB Left Outboard Line of Balance

LOC

Launch Operations Complex Localizer

Location

LOCC **Launch Operations Control Center**

LOE Left Outboard Elevon

> Level of Effort Line of Effort

LOFAR Low Frequency Acquisition and Ranging

LOFO Low Frequency Oscillation LOGO Limit of Government Obligation

LOI Lunar Orbit Insertion LOL Limit of Liability

Limited Operational-Life Items LOLI

LON Longitude LONG Longitude

LOR Lunar Orbit Rendezvous LORA Level of Repair Analysis LORAN Long Range Navigation LOS Lift-Off Simulator

> Line of Sight Loss of Signal Loss of Sync

LOT Lift-Off Time
LOV Limit of Visibility

Loss of Visibility

LOWG Landing Operations Working Group

LOX Liquid Oxygen (LO₂)

LP Launch Pad

Liquid Propellant

Low Pressure

LPD Landing Point Designator

Launch Procedure Document

LPDM List of Physical Dimensions

LPF Low Pass Filter

LPFT LOPW Pressure Fuel Turboprop LPFTP Low Pressure Fuel Turbopump

LPG Last Page Generator (Distribution List Used in All OMT's)

Liquid Propellant Gun

LPLWS Launch Pad Lightning Warning System

LPM Lines per Minute

LPOP Low Pressure Oxidizer Turbopump
LPOTP Low Pressure Oxidizer Turbopump

LPOX Low Pressure Oxygen

LPR Line Printer

LPS Launch Processing (Processor) System

Liters per Second

LPS/CDS LPS/Central Data Subsystem

LPTTL Low Power Transistor-Transistor Logic

LPW Lumens per Watt
LR Landing Radar
Launch Right

Left Rudder Lower Right

LR/LD Line Receiver/Line Driver

LRECL Logical Records of Fixed Length

LRF Liquid Rocket Fuel
LRO Large Radio Observatory
LRR Launch Readiness Review

LRSI Low Temperature Reusable Surface Insulation

LRU Line Replaceable Unit

LRV Launch Readiness Verification

Long Range Video

LS Landing Side

Launch Sequence

Left Side Life Science Limit Switch

LS/ST Light Shield/Star Tracker
LSA Launch Services Agreement

Logistics Support Analysis

LSAH Launch Site Accommodations Handbook LSAP Launch Sequence Applications Program

LSB Least Significant Bit

Lower Side Band

LSC Linear Shaped Charge

LSCA Logistics Support Cost Analysis

LSD Landing Ship Dock

Low Speed Data

LSE Launch Support Equipment

Life Support Equipment

LSF Laboratory Simulation Facility
LSFE Life Sciences Flight Experiment

LSI Large Scale Integration

LSID Launch Sequence and Interlock Document

LSM Life Science Module

LSMI Logistics Support Management Information

LSO Landing Support Officer

Large Solar Observatory

LSP Least Significant Portion

LSPDF Life Science Payloads Development Facility

LSR Land Sea Rescue

Launch Site Recovery

LSRM Life Science Research Module LSS Landing, Separation Simulator

Life Support Subsystem

LSSF Life Sciences Support Facility
LSSL Life Sciences Space Laboratory
LSSM Launch Site Support Manager

LSSP Launch Site Support Plan

Life Sciences Shuttle Research Centrifuge LSSRC

LSST Launch Site Support Team LST Large Space Telescope Large Stellar Telescope Launch Support Team Liquid Storage Tank

Local Standard Time

Launch Site Transportation Equipment LSTE

LSU Life Support Umbilical

Lead Time LT Left

Light

Lower Torso Assembly LTA

Lift-to-Drag LTD Limited

Lighting

LTG

Linear Tangent Guidance

Lead Time Matrix LTM

Lubricate LUB

LUS Liquid Upper Stage LUT Launcher-Umbilical Tower

LV Launch Vehicle

Lift Vector Limit Value Loading Valve Load Vertical Low Voltage

LVDC Launch Vehicle Digital Computer

Linear Variable Differential Transformer LVDT

Linear Voltage Differential Transformer

LVL

Local Vertical/Local Horizontal LVLH

LW Launch Window

LWD Launch Window Display

Left Wing Down

LWG **Logistics Working Group** LWHS Light-Weight Headset

LWR Lower

LWS Lightning Warning System

M Mach

Maintainability
Major Cycle

Male
Mandatory
Manual
Mass
Matrix
Mega
Mercury
Middle
Million

Missing (Data)

Monitor (MON preferred)

Number of Revolutions Required for the Rendezvous

m Meter

M&C Maintenance and Checkout

Monitor and Control Panel

M&F Materials and Facilities
M&M Materials and Maintenance
M&O Maintenance and Operations
M&P Materials and Processes

M&R Maintenance and Refurbishment

Maintenance and Repair

M&RF Maintenance and Refurbishing Facility

M+R Maintenance and Refurbishment

Maintenance and Repair

M- Time in Days before Move Operations

m-kg Meter-Kilogram

M-M-L-S Model-Modes-Loads-Stresses

M/F Maintenance Factor
M/I Minimum Impulse
M/L Maintenance Loop

M/LR Maintenance Loop Recorder

M/P Main Parachute

M/R Mixture Ratio (Fuel to Oxidizer)

M/S Measurement Stimuli
M/SCI Mission/Safety Critical Item

M/U Mockup

M50 Mean of 1950 (Coordinate System)

MA Maintenance (STS)

Maintenance Ability

Master

Master Alarm

Material Authorization Metabolic Analyzer

Middeck Act Mike Amplifier Missed Approach Mission Analysis Multiple Access

mA Milliampere

MA&P Maintenance Analysis and Planning
MA&T Manufacturing Assembly and Test
MAA Mathematical Association of America

Maximum Authorized Altitude

Mechanical Arm Assembly

MAAB Materials Application Advisory Board
MAAR Monthly Associate Administrator's Review

MAB Master Acquisition Bus

Materials Advisory Board Materials Applications Board

Mechanical Automation Breadboard

Missile Assembly Building

MAC Main Display Console

Maintenance Advisory Committee
Maximum Allowable Concentration
Maximum Concentration of Organics

Mean Aerodynamic Chord Military Airlift Command Multiaccess Computer

MACDS Monitor and Control Display System
MACE Mechanical Antenna Control Electronics

MACH Machine

MACH Velocity Relative to the Speed of Sound MACI Monitor, Access, and Control Interface

MACO Major Assembly Checkout

MACRO Merge and Correlate Recorded Output (Program)

MAD Madrid, Spain (STDN)

Maintenance Analysis Data

MADC Multiplexer Analog to Digital Converter
MADRE Manufacturing Data Retrieval System
MADS Modular Auxiliary Data Systems
MAEP Minimum Autoland Entry Point
MAF Manpower Authorization File

Michoud Assembly Facility

Mixed Amine Fuel

MAG Magazine

Magnetic Magnitude

MAGSAT Magnetometer Satellite
MAI Machine-Aided Indexing

MAIDS Management Automated Information Display System

Multipurpose Automatic Inspection and Diagnostic

System

MAIN Maintenance MAINT Maintenance

MAIR Manufacturing and Inspection Record

MAJ Major

MAL Malfunction

Material Allowance List

Mobile Airlock

MALL Malleable MAN Manual

Microwave Aerospace Navigation

MANF Manifold

MAOT Maximum Allowable Operating Time

MAP Maintenance Analysis Program

Message Acceptance Pulse
Missed Approach Point
Mission Application Program

MAPOLE Magnetic Dipole Spark Transmitter

MAPS Measurement of Air Pollution from Satellites

Measurement of Atmospheric Pollution from Satellites

MAR Maintenance and Refurbishment

Memory Address Register

MARS Martin Automatic Reporting System

Modular Airborne Recorder System

MASDC Military Aircraft Storage and Disposition Center

MAT Matrix

Meteorological Atmospheric Turbulence

Multiple Actuator Test

MATCO Materials Analysis, Tracking, and Control

MATL Material

MAU Million Accounting Units

MAUS Messenschafteliche Autonome Experiment Unter

Schewerelosigkeit

MAX Maximum

MAXCO Maximum Dynamic Pressure

MB Main Bus

Management Baseline

MB, mbar Millibar

MB/S Megabits per Second

MBAC Marshall Booster Assembly Contractor

MBB Messerschmitt-Boklow-Blahn
MBC Maximum Breathing Capacity
MBCS Motion-Base Crew Station (SMS)
MBFP Manufacturing Build and Flow Plan

MBI Multibus Interface

MBK Medications and Bandage Kit
MBL Mobile Unit (TACAN Station)
MBO Management by Objective

MBPS Megabits per Second

Million Bits per Second

MBV Main Base Visit

MC Memory Configuration

Mission Capability

Mission Completion/Continuation

MC&C Measurement, Command, and Control

MC&W Master Caution and Warning

MCA Master Control Assembly

Maximum Crossing Altitude
Monitoring and Control Assembly

Motor Control Assembly Multichannel Analyzer

MCBF Mean Cycle between Failures
MCC Main Combustion Chamber

Mission Control Center (JSC) Motor Control Center (JSC)

MCC-DOD Mission Control Center—DOD
MCC-H Mission Control Center—Houston
MCC-K Mission Control Center—Kennedy
MCC-NASA Mission Control Center—NASA

MCCCMission Control and Computing CenterMCCSMission Control Center Simulation (System)MCDSMaintenance Control and Display System

Multifunction CRT Display System

MCDU Multifunction CRT Display Unit
MCF Maintenance and Checkout Facility

Mission Control Facility

MCIU Manipulator Controller Interface Unit

Master Control and Interface Unit Mission Control and Interface Unit

MCL Mass Change Log

Master Configuration List

MCLT Maximum Cruise Level Thrust

MCN Master Change Notice
MCO Mission Control Operations
MCOP Mission Control Operations Panel

MCP Master Change Proposal

Master Computer Program Materials Control Plan

Measurements Control Procedure Mission Control Programmer Monitoring and Control Panel

MCPC Manipulator Controller Power Conditioner

MCPS Major Cost Proposal System
MCR Master Change Record

MCS Maintenance and Checkout Station

176

MCS Measurements Calibration System

MCT Maximum Climb Thrust

Mission Control Table

MCU Master Control Unit

Mission Control Unit

MCVP Materials Control and Verification Program

MCW Modulated Continuous Wave

MD Biomedical Office (KSC Directorate)

Malfunction Detection

Manual Direct Manual Disconnect Master Dimension

Microdot

Mission Director

MDA Main Distribution Assembly

Maintainability Design Approach

Middeck Assembly (FDF)
Multiple Docking Adapter

MDAC McDonnell Douglas Astronautics Company
MDAR Malfunction Detection, Analysis, and Recording

MDAS Meteorological Data Acquisition System

Mission Data Acquisition System

MDB Mission Data Book MDC Main Display Console

Mission Director Center Mission Duty Cycle

MDCA Main Distribution Control Assembly
MDCS Maintenance Data Collection System

Malfunction Display and Control System

Master Digital Command System Material Data Collection System

MDD Mate/Demate Device

MDDS Material Directory Data Sheet
MDE Mission Dependent Equipment

Mission Dependent Experiment Modular Display Electronics

MDF Main Distribution Frame

Manipulator Development Facility

Mating/Demating Facilities

MDF Mild Detonating Fuse MDL Master Data Library

MDM Manipulator Deployment Mechanism

Medical Monitor

Multiplexer/Demultiplexer

MDR Maintenance Demand Rate

Major Design Review
Minor Discrepancy Repair
Missing Data Report
Mission Data Reduction
Monthly Director's Review

MDRD Mission Data Requirements Document
MDRS Manufacturing Data Retrieval System

Mission Data Retrieval System

MDS Malfunction Detection System

Management Data System
Master Development Schedule
Minimum Discernible Signal
Minimum Discernible System
Mission Development Simulator
Mata/Domata Stiffles Devials

MDSD Mate/Demate Stiffleg Derrick
MDT Maintenance Demand Time
Mean Detonating Time

Mean Down Time

Measurement Descriptor Table

Mountain Daylight Time

MDTSCO McDonnell Douglas Technical Services Company

ME Main Engine

Management Engineering
Miscellaneous Equipment
Main Electronics Assembly

MEA Main Electroni

Assembly

Maintenance Engineering Analysis Material Experiment Assembly

MEAR Maintenance Engineering Analysis Request

MEAS Measuring, Measurement
MEB Main Electroni

MEBO Main Engine Burnout
MEC Main Engine Controller

MESA Miniature Electrostatic Accelerometer

Modular Equipment Stowage Assembly

MESC Master Events Sequencer Controller

MET Master Events Timer

Meteorological

Mission Elapsed Time Mission Events Timer

METRO Meteorology

METVC Main Engine Thrust Vector

MEWG Maintenance Engineering Working Group

MF Major Function

Master Frame

Mate and Ferry

Medium Frequency (300 to 3000 kHz)

Middeck Forward

Midfuselage

MFA Manned Flight Awareness

MFBP Manufacturing Flow and Building Plan

MFC Multiple Flight Computer

Multiple Flight Controller

MFD Main Feed

Malfunction Detection

MFE Mid Frequency Executive
MFF MDM Flight Forward
MFG Major Functional Group

Manufacturing

MFMR Multifrequency Microwave Radiometer

MFO Major Function Overlay
MFR Manipulator Foot Restraint

Maximum Flight Rate Multifunctional Receiver Multifunctional Review

MFT Mean Flight Time

MFTAD Master Flight Test Assignment Document (JSC)

MFV Main Fuel Valve MG Middle Gimbal (YAW)

Mobile Generator

Mg Magnesium

180

MEC Master Event Controller

Mission Events Controller

MECA Main Engine Controller Assembly

MECCA Master Electrical Common Connector Assembly

MECF Main Engine Computational Facilities

MECH Mechanical

MECO Main Engine Cutoff

MECR Maintenance Engineering Change Request

MED Manual Entry Device

Medical

Medium

MEDICS Medical Information Computer System

MEE Mission Essential Equipment

MEG Megohm

MEI Master Inspection Item
MEIG Main Engine Ignition
MEIU Main Engine Interface Unit
MEL Master Equipment List

Minimum Equipment List

MELI Master Equipment List Index

Minimum Equipment List Index

MEM Meteoroid Exposure Module

Module Exchange Mechanism

MEOP Maximum Expected Operating Pressure

MEP Main Engine Propellant

Main Entry Point

Management Engineering Program

Mean Effective Pressure Minimum Entry Point

MER Meridian

Mission Evaluation Room

MERL Materials Engineering Research Laboratory

Materials Equipment Requirement List

MERSAT Meteorology and Earth Observation Satellite

MERU Milliearth Rate Unit
MES Main Engine Start

Mated Elements Simulator Mated Events Simulator Mission Events Sequence mg Milligram

MGA Middle Gimbal Angle
MGC Manual Gain Control

MGE Maintenance Ground Equipment

MGMT Management MGR Manager

MGSE Mechanical Ground Support Equipment

MGT Major Ground Test

MGVT Mated Ground Vibration Test
MHC Manipulator Hand Controller

MHD Multihead Disc

MHE Material Handling Equipment
MHF Medium High Frequency
MHSC Manipulator Handset Controller

MHW Multihundred Watt

MHz Megahertz (Megacycles per Second)

MI Management Information

mi Mile

MIA Multiflex Interface Adapter

Multiplexer Interface Adapter

MIB Master Interconnect Board
MIC Management Information Center

MICIS Material Information Control and Information System

MICOM Missile Command (Army)

MICS Management Information and Control System

MID Midbody

MIL GSFC Spaceflight Tracking and Data Network Station

(KSC) Merritt Island, Fla. (STDN Site)

Military

MILA Merritt Island Launch Area
MILS Missile Impact Location System

MILSTRIP Military Standard Requisition and Issue Procedure

MIMOSA Mission Modes and Space Analysis

MIMS Medical Information Management System

MIN Minimum min Minute

MINW Master Interface Network
MIO Management Integration Office

MIOS Multi-IMU Operation System MIP Mandatory Inspection Point

Minimum Impulse Pulse MMU Integration Plan

Modification Instruction Package

MIPR Military Intergovernmental Purchase Request

MIPS Merritt Island Press Site

MIR Malfunction Investigation Report

Mirror

MIS Management Information System

Mission Information Subsystem

MISC Miscellaneous

MISS Mission

MIT Massachusetts Institute of Technology (CSDL)

Master Instruction Tape

MITTS2 Mobile Igor Tracking Telescope System

MIU Multiplex Interface Unit

MIÚS Modular Integrated Utility Systems

MJ Mechanical Joint

MJCA Midbody Jettison Control Assembly
MJS Manipulator Jettison System (Subsystem)

MK Mark

MKTI Mission Kit Technical Instruction

ML Middeck Left
Mobile Launcher

Mold Line

ML PED Mobile Launcher Pedestal

MLA MDM Launch Aft

Monochrome Lens Assembly

MLB Multilayer Board

MLC Mobile Launcher Computer
MLF MDM Launch Forward
MLC Main Launchian Communication

MLG Main Landing Gear

MLGS Microwave Landing Guidance System

MLI Multilayer Insulation
MLL MDM Launch Left

MLP Mobile Launch (Launcher) Platform

MLR MDM Launch Right

MLR Monodisperse Latex Reactor
MLS Microwave Landing System
MLW Maximum Landing Weight

MM Main Memory

Main Module Major Mode Man-Month Mass Memory Math Model Mission Manager

mm Millimeter

MMACS Maintenance Management and Control System

MMAS Material Management Accounting (Accountability) System

MMC Martin Marietta Corporation

Mission Management Center

MMCA Midbody Motor Control Assembly
MMCL Master Measurement and Control List

MMDB Mass Memory Data Base

Master Measurement Data Base

MMDF Mission Model Data File

MMES MSFC Mated Element Systems

MMH Maintenance Man-Hour

Monomethylhydrazine

MML Master Measurement(s) List
MMLS Model-Modes-Loads-Stresses
MMOS Multimode Optical Sensor

MMPSE Multiuse Mission Payload Support Equipment

MMS Mission Modular Spacecraft

Modular Multiband Scanner

Multimission Modular Spacecraft

MMSE Multiuse Mission Support Equipment

MMT Mass Memory Test

MMU Manned Maneuvering Unit

Mass Memory Unit

MN Main

MNA, B, C Main Bus A, B, or C

MNVR Maneuver MO Major Objective

MO Manned Orbiter

Manual Orientation
Manufacturing Order
Master Oscillator
Middeck Overhead
Mission Operations

Move

Mo Molybdenum
MOA Make on Arrival

Memorandum of Agreement

Minute-of-Angle

MOC Marine Operation Center

Mission Operations Computer

MOCF Mission Operations Computational Facilities

MOCR Mission Operations Control Room MOCS Multichannel Ocean Color Sensor

MOCV Manual O₂ Control Valve MOD Mission Objectives Document

Mission Operations Director

Modification Modify

Modulation, Modulator

Module, Modular

MODART Methods of Defeating Advanced Radar Threats

MODEM Modulator-Demodulator

MODS Modifications

MOF Manned Orbital Flight

MOL Molecular MOM Moment MON Monitor

MOP Mission Operations Plan MOPI Max Rate Output Initiator

MOPR Mission Operations Planning Review

Mission Operations Planning Room

MOPS Military Operations Phone System

Mission Operations Planning System

MOR Manufacturing Operation Record

MORD Medical Operations Requirements Document

MORD Mission Operations Requirements Document

MORT Management Oversight and Risk Tree

MOS Metal Oxide on a Substrate
Metal Oxide Semiconductor

MOSPO Mobile Satellite Photometric Observatory

MOT Motor

MOU Memorandum of Understanding

MOV Main Oxidizer Valve
MOW Mission Operations Wing
MP Management Package

Mass Properties
Measuring Point
Medium Pressure
Melting Point
Meteorology Panel
Mission Planner
Mod Package

MP&C Maintenance Planning and Control

MPAD Mission Planning and Analysis Division (JSC)

MPB Maintenance Parts Breakdown
MPC Manual Pointing Controller
Memory Protection Check
Meteorological Prediction Center

Midbody Pyro Controller

MPD Main dc Power Distributor Assembly

Maximum Permissible Dose

MPESS Mission Peculiar Experiment Support Structure

MPG Multiple Point Ground Multipoint Grounding

MPGHM Mobile Payload Ground Handling Mechanism
MPHE Material and Personnel Handling Equipment

MPI Mission Payload Integration

MPIIN Modification Procurement Instrument Identification

Number

MPIO Mission Payload Integration Office

MPL Maintenance Parts List

Manipulation Positioning Latches

Mechanical Parts List

MPL Minimum Power Level (65%) MPLN Maintenance Planning (Data Base) MPM Manipulator Positioning Mechanism **MPMP** Mass Properties Management Plan

MPMSE Multiuse Payload and Mission Support Equipment

MPP Material Processing Procedure

MPPSE Multipurpose Payload Support Equipment

Maintainability Problem Report MPR Management Program Review

Mockup Purchase Request

MPS Main Propulsion System (Subsystem)

Master Program Schedule

Material Processing Specification Material Processing System Materials Processing in Space

Megabits per Second

MPSR Mission Profile Storage and Retrieval

Multipurpose Support Room

MPSS Main Parachute Support Structure

MPT Main Propulsion Test

MPTA Main Propulsion Test Article Main Propulsion Test Facility **MPTF MPTP** Main Propulsion Test Program

MPTS Multipurpose Tool Set

MPVA Main Propellant Valve Actuator

MR Master Reset

> Material Review Mission Report Mixture Ratio

MRA Mechanical Readiness Assessment

MRB Material Review Board

MRC Measurement Requirements Committee MRCR Measurement Requirement Change Request

MRD Material Review Disposition

Mission Requirements Document

MRDR Material Review Disposition Record **MRF** Maintenance Responsibility File

Maximum Retarding Force

MRF Measurements/Stimuli Request Form
MRI Measurement Requirements and Interface
MRIR Medium Resolution Infrared Radiometer

MRL Manipulator Retention Latches

Manipulator Retention Lock

Material Requirements List

MRR Mission Reconfiguration Request
MRS Management Review System
MRTC Multiple Real-Time Commands

MS Machine Screw

Machine Steel Margin of Safety Mass Spectrometer Master Switch

Material Specification

Mating Sequence and Control

Milestone

Military Standard (Parts Designation)

Mission Specialist Mission Station Multistring

ms Millisecond

MS/MS Material Science and Manufacturing in Space

MSA Material Service Area
Minimum Surface Area

MSA-1

MSAD Materials Summary Acceptance Document

MSB Most Significant Bit

MSBLS Microwave Scanning Beam Land Station

Microwave Scanning Beam Landing System

MSBLS-GS MSBLS Ground Station

MSC Manned Spacecraft Center (changed to JSC)

Master Sequence Controller
Materials Service Center
Military Sealift Command
Moding Sequencing and Control

MSCR Measurement/Stimuli Change Request

MSD MARS Supplemental Data

MSDS Multispectral Scanner and Data System

MSE Maintenance Support Equipment

Measuring and Stimuli Equipment Mechanical Support Equipment Medical Support Equipment

Mission Staff Engineer

MSEC Master Separation Events Controller

msec Millisecond

MSF Maintenance Source File

Manned Space Flight

MSFC George C. Marshall Space Flight Center

MSFN Manned Space Flight Network
MSFP Manned Space Flight Program
MSG Mechanical Subsystem Group

Message

Mission Support Group

MSI Maintenance Significant Items

Medium Scale Integration

MSIA Multispectral Image Analyzer

MSID Measurement Stimulation Identification

MSK Manual Select Keyboard

MSL Mean Sea Level

Mechanical System(s) Laboratory

Missile

MSLD Mass Spectrometer Leak Detector

MSM Manned Support Module

MSN Mission

MSO Model for Spare(s) Optimization

MSOB Manned Spacecraft Operations Building (O&C preferred)

MSOCC Multisatellite Operations Control Center

MSOIN Minor Subcontractor or IDWA Notification

MSR Module Support Rack
MSS Maintenance Status System

Manufacturers Standardization Society

Mechanical Support Systems
Mission Specialist Station
Mission Status Summary
Mobile Service Structure

MSS Multispectral Scanner System
MST Measurement Status Table

Mobile Service Tower Module Service Tool Mountain Standard Time

MSTR Master

MSU Mass Storage Unit

Measuring Stimuli Units

MSV Monitored Sine Vibration (Test)
MSVP Master Shuttle Verification Plan

MSW Microswitch
MT Magnetic Tape

Master Timer Master Tool Maximum Torque Mean Time

Mechanical Technician

Mission Time Mission Trajectory

Mount

Mountain Time

MTA Maintenance Task Analysis

Major Test Article Mass Thermal Analysis Materials Testing Branch Mean Time between Demand

MTBD Mean Time between Demand
MTBF Mean Time between Failure
MTBM Mean Time between Maintenance
MTBMA Mean Time between Maintenance Action

MTBR Mean Time between Replacement

WITON Wear Time between hepide

MTC Manual Traffic Control

Master Thrust Control
Master Thrust Controller
Mission and Traffic Control

MTCA Monitor and Test Control Area
MTCU Magnetic Tape Control Unit

MTD Mounted

MTB

MTDSK Magnetic Tape Disk

MTE Maintenance Test Equipment

Multisystem Test Equipment

MTECMaintenance Test Equipment CatalogMTEEElectrical Maintenance Test EquipmentMTEECElectronic Maintenance Test EquipmentMTEFFluid Maintenance Test EquipmentMTEMMaintenance Test Equipment Module

Mechanical Maintenance Test Equipment

MTEO Optical Maintenance Test Equipment
MTF Mississippi Test Facility (now NSTL)
MTEO Madular Training Field Optical

MTFO Modular Training Field Option

MTG Mounting

MTGP Monitor Table Generator Program
MTGW Maximum Total Gross Weight
MTK Mechanical Time Keeping

MTL Main Transfer Line

Material

MTLP Monitor Table Listing Program
MTM Methods Time Measurement
MTO Magnetic Tape Operator
Master Timing Oscillator
Maximum Time Out

Mission, Task, Objective Modification Task Outline

MTOGW Maximum Takeoff Gross Weight
MTOW Maximum Takeoff Weight

MTP Manufacturing Technical Procedure

Master Test Plan Mission Test Plan

MTR Magnetic Tape Recorder

Motor

MTS Magnetic Tape Station (System)

Master Timing System Metric Time System

MTT Maximum Touch Temperature
MTTA Mean Time to Accomplish
MTTE Mean Time to Exchange
MTTF Mean Time to Failure

MTTFF Mean Time to First Failure
MTTR Mean Time to Repair
MTU Magnetic Tape Unit
Master Timing Unit
Mobile Training Unit

Manual Thrust Vector Control

MTW Maximum Taxi Weight

Master Unit Mobile Unit Mockup Multiple Unit

MUA Material(s) Usage Agreement

Maximum Usable Altitude

MUF Maximum Usable Frequency

MULT Multiple Multiply

MTVC

ΜU

MUMSMultiple Use Marc SystemMURManpower Utilization ReportMUSATCanadian Government SatelliteMUSSModule Utility Support Structure

MUX Multiplex, Multiplexer

MV Manual Valve

Manufacturing Verification

mV Millivolt

MVA Main Valve Actuator

Megavolt Ampere

MVAS Multipurpose Ventricular Actuating System

MVC Manual Volume Control

Master Volume Control

MVF Manned Vertical Flight

MVGVT Mated Vertical Ground Vibration Test

MVM Mariner Venus/Mercury MVP Master Verification Plan

MVR Maneuver

MVS Middle Value Select

Multiple Virtual Storage

MVT Mission Verification Test

MW Man Week

MW Microwave mW Milliwatt

MWB Master Work Book

MWG Maintenance Analyzer Working Group

MWP Maximum Working Pressure
MWPR Monthly Work Package Report

MWR Mean Width Ratio

MWV Maximum Working Voltage

MX Multiplex MY Man Year

MYTA Maintainability Task Analyses
MYVAL Maintainability Evaluation
MZFW Maximum Zero Fuel Weight

N Neutrons

Newton North Nitrogen

Hydrazine

N₂HO₄ Nitrogen Peroxide N₂O₄ Nitrogen Tetroxide

N&G Navigation and Guidance (G&N preferred)

N/A Next Assembly

Not Applicable

N/B Narrow Band
N/C Normally Closed

Nose Cone Not Critical

Numerical Control

N/D Need Date
N/O Normally Open
N/P Not Provided
N/W Network
NA Next Action

Not Applicable

NAAL North American Aerodynamic Laboratory (Wind Tunnel)

NAC Nacelle

NAEC Naval Air Engineering Center

NAM National Association of Manufacturers

NAP Navigation Analysis Program
NAR Numerical Analysis Research

NARS National Archives and Record Services

NAS National Academy of Sciences

National Aircraft Standard

Naval Air Station

NASA National Aeronautics and Space Administration

NASCOM NASA Communications (Network)

NASTRAN NASA Structural Analysis
NATF Naval Air Test Facility

NATL National

NAV Navigate, Navigation NAVAID Navigation Aid

NAVDAD Navigationally Derived Air Data
NAVPOOL Navigation Parameter Common Pool

NAVSAT Navigation Satellite
NB Narrow Band

Navigation Base Nitrogen Base No-Bias (Relay)

Nb Niobium

NBF Neutral Buoyancy Facility
NBS National Bureau of Standards
NBT Neutral Buoyancy Trainer

NC National Course

No Change No Comment Noise Criteria Normally Closed Numerical Control

NC1 Nominal Correction 1 (Phasing Maneuver)

NCC NASA Class Code

Nominal Corrective Combination (Maneuver)

NCGS Nuclear Criteria Group Secretary

NCI Phasing Maneuver

NCIU Network Common Interface Unit

NCR No Calibration Required

Nonconformance/Failure Report

NCS Nutation Control System

ND NASA Document Nd Neodymium

NDE Nondestructive Evaluation
NDI Nondestructive Inspection

NDT Nondestructive Test

NDTF Nondestructive Test Facility
NDTL Nondestructive Test Laboratory

NEA Noise Equivalent Angle
NEC National Electrical Code

NEG Negative

NEP Normal Entry Point

NESC National Electrical Safety Code
NESR Natural Environment Support Room

NET Network (N/W preferred)
NETCOM Network Communications

NF Natural Flood

Noise Figure

NFCS Nuclear Forces Communications Satellite
NFPA National Fire Protection Association

NFS Nozzle Flow Sensor
NFSP Nonflight Switch Panel
NFW Nonfuel Wasting
NG Narrow Gage

Nitrogen Gage

Nose Gear

NGM Nitrogen Generation Module
NH Nominal Height (Adjust Maneuver)

NH₃ Ammonia NH₄ Hydrazine

NHA Next Higher Assembly NHB NASA Handbook

NHC National Hurricane Center

Ni Nickel NI-SIL Nickel-Silver

NIA NOVA Interface Adapter
NIB Noninterference Basis
NIC Not in Contract

NICD Nickel Cadmium

NIDS Network Interface Data System

NIL No Limit (NL preferred)

NIM Nuclear Instrumentation Module

NIP Network Input Processor

Network Interface Processor

Nipple

NJP Network Job Processing

NL No Limit

Nose Left

NLA Next Lower Assembly

NLG Nose Landing Gear NLT Not Later Than

Not Less Than

NM Nautical Miles

Network Manager (GSFC)

Nonmetallic Nanometer

NMAB National Materials Advisory Board
NMC National Meteorological Center
NMI NASA Management Instruction

Nautical Miles

NMO Normal Manual Operation
NMR Nuclear Magnetic Resonance

NMT Not More Than

nm

Notification of Master Tool

NMV Nitrogen Manual Valve

NNI-I NASA Standard Initiator—Type I (was SMSI)

NO Nitric Oxide

Normally Open

Not for Off-KSC Distribution

NO, Number

NO₂ Nitrogen Dioxide

NOĀA National Oceanic and Atmospheric Administration

NOC Network Operation Control

Not Otherwise Coded Notation of Content

NOCC Network Operations Control Center

NOES National Operational Environmental Satellite Serv.

NOM Network Output Multiplexer

Nominal

NOR Normal

Northrup Flight Strip, NM (Deorb OPT site)

NORAD North American Air Defense Command
NORDSAT Scandinavian Countries Broadcast Satellite

NORM Normal

NOSL Night/Day Optical Survey of Thunderstorm Lightning

NOSP Network Operations Support Plan NOSS National Oceanic Survey Satellite NOZ Nozzle NP Neptunium

> Network Program Not Provided

NPC NASA Publication Control

Nitrogen Purge Control

NASA Policy Directive NPD

Nominal Percent Defective

NPDS Nuclear Particle Detection Subsystem

NPL Normal Power Level (see RPL)

NPN NASA Part Number

NPRV Nitrogen Pressure Relief Valve

NPS **NASA Planning Studies NPSH** Net Positive Suction Head **NPSP Net Positive Static Pressure Net Positive Suction Pressure**

NPU Nitrogen Purge Unit

NPV Nitrogen Pressure Valve NR Noise Rating

Nose Right Not Required NR/T Near Real-Time

NRC **Nonrecurring Costs NRCC** National Research Council of Canada

NRI Nonrecurring Investment NRL Naval Research Laboratory NRM Nonrecurring Maintenance NRP Normal Rated Power

NRS Nonconformance Reporting System

NRT Near Real-Time

NRTS Not Repairable at This Station

NRZ Non-Return-to-Zero NRZ-L Non-Return-to-Zero Level

NS Nickel Steel Not Switchable

Nuclear Shuttle

NSA National Standards Association

NSI-I NASA Standard Initiator-Type I (was SMSI) NSN National Stock Number
NSO NASA Support Operation
NSP NASA Support Plan

Network Signal Processor

NSR National Slow Rate

Nominal Slow Rate

Normal Slow Rate (Maneuver)

NSR1 First Coelliptic Maneuver
NSR2 Second Coelliptic Maneuver
NSS Nitrogen Supply Subsystem

NSSDC National Space Science Data Center

NSTL National Space Technology Laboratory (was MTF)

NSW NSP Status Word

nt Newton

NTIS National Technical Information Service

NTO Nitrogen Tetroxide
NTP Network Test Panel

Normal Temperature and Pressure

Notice To Proceed
Near Term Schedule

Not to Scale

NTSO NASA Test Support Office

NTTF Network Test and Training Facility

NUL Non-GSE Utilization List

NVAFB North Vandenberg Air Force Base

NVB Navigational Base

NVPOWG NASA/VAFB Payload Operations Working Group

NVR No Voltage Release

Non-Verification Required

Nonvolatile Residue

NW NASA Waiver

Nose Wheel

NWS National Weather Service

Nose-Wheel Steering

NWSI New World Services Inc.

NWSA Nose Wheel Steering Amplifier

NWT Nonwatertight
NWW Nose Wheel Well

NTS

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

Omicron 0 Out

O₂ O&C Oxygen

Operation and Checkout

Operation(s) and Checkout (Building-was MSOB)

Operations and Flight Support O&FS O&M Operation and Maintenance **Operations and Procedures** O&P

Overhaul and Repair O&R Onboard Navigation O-NAV

Onboard O/B

Operational Base O/C Operations Critical

O/D On Dock

Outside Diameter

Orbiter/External Tank O/ET Oxidizer-to-Fuel Ratio O/F

O/L Overload

O/L-RC Overload-Reverse Current

Outside Radius O/R Oxygen Relief

O/V Overvoltage

Over Voltage/Under Voltage O/V-U/V

Office of Applications (now OSTA) OA

Operational Aft (DSC or MOM)

Operational Instrumentation MDM-Aft

Orbital Assembly **Output Axis** Overall

Orbiter Access Arm OAA

Orbiter Alternate Airfield

Orbiter Air Flight Deck OAFD

Orbiter Atmospheric Flight Test Office OAFTO

Overall Level OAL

OALC Ogden Air Logistics Center

Orbital Attitude and Maneuvering System **OAMS**

200

OAS Office Automation System

Orbiter Aeroflight Simulator Orbiter Atmospheric Simulator

Orbiter Avionics System

OASCB Orbiter Avionics Software Control Board

OASIS Oceanic and Atmospheric Scientific Information System

OASPL Overall Sound Pressure Level

OAST Office of Aeronautics and Space Technology

OAT Operational Acceptance Test

Overall Test

OB Onboard

Operational Base

Outboard

OBC Onboard Computer

OBCO Onboard Checkout (Instrumentation)
OBCS Onboard Checkout Subsystem

OBS Observe, Observer

Operational Bioinstrumentation System

Operational Biomed Sensors Operational Biomedical System

OBV Oxidizer Bleed Valve

OC On Center

On-Condition
Open Circuit
Orbital Check
Overcurrent

OCALC Oklahoma City Air Logistics Center OCC Office of Contract Compliance

Operations Control Center

OCD Operational Capability Development
OCDR Orbiter Critical Design Review
OCDU Optics Coupling Data Unit (G&N)

OCE Ocean Color Experiment

OCF Onboard Computational Facility

Orbiter Computational Facilities

OCH Orbiter Common Hardware
OCM Organic Content Monitor
OCN Order Control Number

OCO OMS Cutoff

Open-Close-Open

OCP Output Control Pulse

OCR Optical Character Recognition
OCRM Orbiter Crash and Rescue Manuals

OCS Onboard Checkout System

OCT Octal, Octave

OD Operations Directive

Operational Downlink/Downlist

Outside Diameter Oxygen Drain

ODB Operational Data Book
ODC Other Direct Costs
ODCDR Orbiter Delta CDR

ODDS Operational Data Delivery Services
ODES Optical Discrimination Evaluation Study

ODF Orbit Determination Facility
ODIN Orbital Design Integration (System)
ODP Operational Display Procedure
ODR Output Data Redundancy

ODRAN Operational Drawing Revision Advance Notice

ODU Output Display Unit

OEAS Orbital Emergency Arresting System

OECO Outboard Engine Cutoff

OEM Original Equipment Manufacturer

OES Orbiter Emergency Site

OESS Orbiter/ET Separation Subsystem

OEX Orbiter Experiments

OF Operational FWD DSC or MDM

Operational Instrumentation MDM-FWD

Orbital Flight Outside Face

Oxidizer-to-Fuel Ratio

Oxygen Fill

OFCC Office of Federal Contract Compliance
OFDS Orbiter Flight Dynamics Simulator

Oxygen Fluid Distribution System

OFI Operational Flight Instrumentation

OFK Official Flight Kit

Optical Flight Kit

OFM Original Equipment Manufacturer OFP

Operational Flight Profile

Operational Flight Program Orbiter Flight Program

OFS Orbital (Orbiter) Flight System

Orbiter Functional Simulator

OFT Orbital Flight Test

OFTDS Orbital Flight Test Data System **OFTM** On-Orbit Flight Technique Meeting **OFTR** Orbital Flight Test Requirement

OG Outer Gimbal (Roll)

> Oxygen Gage Zero Gravity

OGA Outer Gimbal Angle

Outer Gimbal Axis OGE **Operating Ground Equipment**

OGMT Orbiter Greenwich Mean Time

OGS Outer Glideslope

Oxygen Generation System

OGV Oxygen Gage Valve

ОН Overhaul

Overhead

OHA Operational Hazard Analysis

Orbital Height Adjustment Maneuver

OHC Onboard Hard Copier

Optics Hand Controller

OHF Occupational Health Facility

OHGVT Orbiter Horizontal Ground Vibration Test

OHMM Ohmmeter

ΟI Operational Instrumentation

Operations Interface Orbiter Insertion Orbiter Instrumentation

OIA Office of International Affairs

Orbiter Interface Adapter

OIB Orbiter Interface Box

OIC Orbiter (Orbital) Integrated Checkout OII Operations Integration Instruction 010 **Operations Integrations Officer** OIR Operations Integration Review

OIS Operational Intercommunication System

Orbiter Instrumentation Systems

OISR Open Item Status Report

OISSP Office of Interim Space Station Program

OIT Orbiter Integrated Test
OIV Oxidizer Isolation Valve

OIVS Orbiter Interface Verification Set

OJT On-the-Job Training

OL Open Loop

Operational Left DSC or MDM

Overlay Overload

OLDB On-Line Data Bank

OLF Orbiter Landing Facility (now SLF)
OLIF Orbiter Landing Instrumentation Facilities

OLOW Orbiter Lift-Off Weight
OLSA Orbiter/LPS Signal Adapter
OLSP Orbiter Logistics Support Plan
OM Operational Mid DSC or MDM

Optical Master

Outer Marker (ILS)

OMA Operations Maintenance Area

Orbiter Maintenance Area

OMB Office of Management and Budget
OMBUU Orbiter Midbody Umbilical Unit
OMC Orbiter Maintenance and Checkout
OMCF Operations and Maintenance Control File

Orbiter Maintenance and Checkout Facility

OMD Operations and Maintenance Documentation

Orbiter Mating Device

OMDR Operations and Maintenance Data Record
OMDR1 Operations and Maintainability Data Record

OME Orbital Main Engine

Orbital Maneuvering Engine

Orbiter Main Engine

OMET Orbiter Mission Elapsed Time

OMEWG Orbiter Maintenance Engineering Working Group

OMI Operations and Maintenance Instruction
OMIS Operational Management Information System

OMISS Operation and Maintenance Instruction Summary Sheet(s)

OML Orbiter Mold Line

OML Outer Mold Line

Outside Mold Line

OMMH Orbiter Maintenance Man-Hours

OMNI Omni-Range Omnidirectional

OMP Operations and Maintenance Plan

OMPR Operational Maintainability Problem Reporting

OMPT Observed Mass Point Trajectory

OMR Operations and Maintenance Requirements

Operations Management Room Orbiter Management Review

OMRB Operating Material Review Board

OMRC Operational Maintenance Requirements Catalog
OMRP Operations and Maintenance Requirements Plan

OMRS Operations and Maintenance Requirements Specification
OMRSD O&M Requirements and Specifications Documentation

Operational Maintainability Reporting Systems Document Operational Maintenance Requirements and Specifications

Document

OMS Orbital Maneuvering Subsystem

OMSF Office of Manned Space Flight (now OSTS)
OMSP Operational Maintenance Support Plan

OMU Optical Measuring Unit
OMV Oxygen Manual Valve

ONBD Onboard

ONBT Orbiter Neutral Buoyancy Trainer

OND Operator Need Date
ONR Office of Naval Research

OOD Orbiter On-Dock
OODP Out-of-Detent Pitch
OODR Out-of-Detent Roll

OOMM Organizational Operations and Maintenance Manual

OOP Out of Position
OOS On-Orbit Station

Orbit-to-Orbit Shuttle

Orbit-to-Orbit Stage

OOSDP On-Orbit Station Distribution Panel

OOT Out of Tolerance

OP Open

Operate
Operation
Oxygen Purge

OPA Operations Planning Analysis

OPB Oxidizer Preburner

OPBOV Oxidizer Preburner Oxidizer Valve
OPDAR Optical Detection and Ranging

OPE Other Project Element

OPER Operation

Operations, Operate, Operator
OPF Orbiter Processing Facility
OPFC Orbiter Preflight Checklist
OPGUID Optimum Guidance (Technique)
OPI Orbiter Payload Interrogator

OPIDF Operational Planning Identification File

OPIS Orbiter Prime Item Specification

OPL Open Problem List

Operational

OPLF Orbiter Processing and Landing Facility

OPNS Operational Phase

OPO Orbiter Project(s) Office

OPOV Oxidizer Preburner Oxidizer Valve

OPP Opportunity

Opposite

OPPAR Orbiter Project(s) Parts Authorization Request

OPPL Orbiter Project Parts List
OPR Office of Primary Responsibility

Operations Planning Review

Operator

Orbiter/Payload Recorder Oxygen Pressure Regulator Oxygen Pressure Relief Valve

OPRV Oxygen Pre OPS Operations

Operations Sequence
Orbiter Project Schedules

Oxygen Purge System

OPSB Orbiter Processing Support Building

OPSR Operations Supervisor (GSTDN Site) OPSS Orbital Propellant Storage Subsystem OPT

Operational Pressure Transducer

Optics Optimum Option

OPTB Operational Program Time Base

Opposite

OR Operational Right DSC or MDM

Operations Requirement **Operations Review Operations Room** Outer Roll

Oxygen Relief

ORB Orbit, Orbital, Orbiter

Order

ORB 1-g Orbiter one-g (trainer)

ORCHIS Oak Ridge Computerized Hierarchical Information

System

ORD Operational Readiness Date

Operational Ready Data

Operational Requirements Document **Orbital Requirements Document**

Ordnance

ORE On-Orbit Repair Experiment ORDC **Orbiter Data Reduction Center**

ORF Orifice ORG Organization

ORI Operational Readiness Inspection

ORIDE Override ORIEN Orientation ORIG Origin

ORLA Optimum Repair Level Analysis ORP **OFS Retransmission Processor** ORR Operational Readiness Review

Operations Requirements Review

ORS **Orbital Refueling System**

Orroval Valley, Australia (STDN)

ORSDI Oak Ridge Selective Dissemination of Information

ORT Operational Readiness Test

Orbit Readiness Test

ORTHOG Orthogonal
OS On-Orbit Station

Operating Software Operating System Optics Subsystem

Orbiter CEI Specification
Operational Support Area

OSC Oscillator

OSA

OSDH Orbiter System Definition Handbook

OSE Operating Support Equipment

Orbiter Support Equipment

OSF Office of Space Flight (now OSTS)

Ordnance Storage Facility

OSHA Occupational Safety and Health Act (Activity)

Occupational Safety and Health Administration

OSLM Operations Shop/Lab Manager

OSM Orbital Service Module

OSMP Operational Support Maintenance Plan

OSO Ocean Systems Operation

OSOP Orbiter Systems Operating Procedures

OSP Operations Support Plan
OSR Operations Support Room
OSS OEX Support System
Office of Space Science
Optics Subsystems

Optics Subsystems
Orbiting Space Station

OSSA Office of Space Science and Applications
OSSRH Orbiter Subsystem(s) Requirements Handbook

OST Operations Support Team (GSFC)

Orbiter Support Trolley

OSTA Office of Space and Terrestrial Application(s)
OSTDS Office of Space Tracking and Data Systems
OSTO Office of Space Transportation Operations

OSTP Orbiting System Test Plan

OSTS Office of Space Transportation Systems

OT Operating Time

Operational Instrumentation MDM-Tank

Operational Test

Operational Trajectory

OT Optical Tracker

Out Temperature

Overtime

OT&E Operational Test and Evaluation
OTA Optical Telescope Assembly

OTB Orbiting Tanker Base

OTBD Outboard

OTC Orbiter Test Conductor

OTD Operational Technical Documentation

Orbiter Test Director

OTDA Office of Tracking and Data Acquisition (now OSTDS)

OTEMP Overtemperature

OTH Over-the-Horizon (Radar)

OTK Oxidizer Tank

OTL Ordnance Test Laboratory
OTLC Orbiter Timeline Constraints

OTO One-Time-Only
OTOS Orbit-to-Orbit Stage

OTP Operational Test Procedure

Operations Test Plan

Operations Turnaround Plan

OTR Operating Time Record

Outer

OTS Off-the-Shelf

Orbiter Test Conductor
OTT Optional Team Targeting
OTV Operational Television

Orbiter Transfer Vehicle

OUP OFS Uplink Processor OUT Orbiter Utilities Tray

Outlet

Output

OUTBD Outboard
OV Orbiter Vehicle

Oxygen Vent

OVBD Overboard

OVCO Operational Voice Communication Office

OVF Overfill

OVFL Overflow OVHD Overhead OVHT Overheat

OVI Operational Validation Inspection

OVLD Overload OVRD Override

OVS Operational Voice System

OVV Overvoltage
OW Optical Window
OWD One-Way Doppler

OWDE One-Way Doppler Extraction
OWF Optimum Working Frequency

OX Oxidizer

OXD Oxide, Oxidizer

OXDZR Oxidizer
OXID Oxidizer
OXY Oxygen
OZ Ozone
oz Ounce

P Pallet (Spacelab)

Period
Pilot
Pitch
Pole
Pressure
Primary
Prime

Roll Rate (Angular Rate)

P&FS Particles and Fields Subsatellite

P&I Performance and Interface (Specification)

P&M Performance Monitor

Phase Modulation (Modulated)

Planetary Mission Preventive Maintenance Processes and Materials Program Milestone Pulse Modulation

P&R Performance and Resources

P&SM Procurement and Subcontract Management

P-BAND 225 to 390 MCS
P-P Peak-to-Peak (Value)
P-TUBE Pheumatic Tube
Pheumatic Tube
Problem Analysis

P/B Preburner

Pushbutton
P/C Pitch Control
P/L Parts List

Payload Postlanding Purchased Labor Part Number

P/P Patch Panel Printer/Plotter

P/N

P/PL Primary Payload

P/S Parallel to Serial Converters

Payload Specialist

P/Y Pitch/Yaw PA Pad Abort

PA Paging and Area Warning

Power Amplifier
Product Assurance
Public Address
Public Affairs
Pulse Amplifier

PAC Pressure Alpha Center

Probe Aerodynamic Center Problem Action Center

PACAS Personnel Access Control Accountability System

PACC Problem Action Control Center

PACE Prelaunch Automatic Checkout Equipment
PACS Pointing and Attitude Control System

PAD Preliminary Advisory Data (Crew Data Uplink)

Program Approval Document Propellant Acquisition Device

PAE Preventive Action Engineer

Problem Assessment Engineer

PAF Payload Attach Fitting

Peak Annual Funding

PAFB Patrick Air Force Base

PAH Payload Accommodations Handbook
PAL APA Indonesian Communications Satellite
PALS Photo Area and Location System

Precision Approach and Landing System

PAM Payload Assist Module

Pulse Amplifier Modulation
Pulse Amplitude Modulation

PAM-A PAM, Atlas-Centaur Class Spacecraft

PAM-D PAM, Delta Class Spacecraft

PAMB Pressure Ambient

PAO Public Affairs Office (Officer)
PAP Product Assurance Plan

PAPI Precision Approach Path Indicator

PAR Planning Action Request

Precision Approach Radar Problem Accountability Record

Problem Action Record

PAR Problem Action Request

Product Acceptance Review

PARA Paragraph PARAM Parameter

PARS Property Accountability Record System

PAS Payload Accommodation Studies

Primary Ascent System

PASS Planning and Scheduling System

Primary Avionics Software System

PAT Problem Action Team

Production Acceptance Test

PATP Preliminary Authority To Proceed
PATS Program for Analysis of Time Series

PAU Probe Aerodynamic Upper PAV Pressure Actuated Valve

PAX Passengers

PAYCOM Payload Command PAYDAT Payload Data

PB Phonetically Balanced

Playback

Preburner (P/B preferred)

Pushbutton

PBAN Polybutadiene Acrylonitrile (Propellant)

PBD Payload Bay Door

PBDF Payload Bay Door FWD
PBDM Payload Bay Door Mechanism

PBI Push Button Indicator

PBIC Programmable Buffer Interface Card
PBIM Programmable Buffer Interface Module

PBK Payload Bay Kit
PBL Payload Bay Liner

PBM Program Business Management
PBPS Post-Boost Propulsion System(s)

PBW Proportional Band Width

PC Chamber Pressure

Pitch Control Plane Change

Printed Circuit (Card)

PC Project Control

Pulsating Current

PCA Pitch Control Assembly

Pneumatic Control Assembly Point of Closest Approach Power Control Assembly

PCB Power Circuit Breaker

Power Control Box Printed Circuit Board

Product Configuration Baseline

PCC Pad Control Center

Payload Control and Checkout Production Control Centers

PCCB Program Configuration Control Board

PCCE Payload Common Communication Equipment

PCCM Program Change Control Management
PCCN Provisioning Contract Control Number
PCCP Preliminary Contract Change Proposal
PCD Procurement Control Document
PCDU Payload Command Decoder Unit

PCEM Propulsion Contamination Effects Module

PCF Payload Control Facility

PCG Phonocardiogram

PCI Peripheral Controller Interface

Procedure Change Unit

Product Configuration Identification

Program Control Input

PCIL Pilot-Controlled Instrument Landing
PCIN Program Change Identification Number

Program Change Integration

PCL Pallet Coolant Loop

Power Control List
Primary Coolant Line
Primary Coolant Loop
Programming Check List
Rever Control Mission

PCM Power Control Mission

Pulse Code Modulation Pulse Code Modulator PCM Punch Card Machine

PCMD Pulse-Code Modulation, Digital PCME Pulse-Code Modulation Event

PCMMU PCM Master Unit

Pulse-Code Modulation Master Unit

PCMS Pulse-Code Modulation Shared

PCN Page Change Notice

Program Change Notice Program Control Number

PCO Postcheckout

Postcheckout Operations
Procuring Contracting Officer
Program Controlled Output

PCOT Payload Center Operations Team

PCP Power Control Panel

Program Change Proposal Project Change Proposal Project Cost Plan

PCR Payload Changeout Room

Payload Checkout Room Power Change Request Program Change Request Project Control Room Publication Change Request

PCRB Program Change Review Board (RI Launch

Operations)

PCS Payload Checkout System

Payload Control Supervisor Pointing Control System Power Conversion System Pressure Control System Primary Coolant System Procedure Completion Sheet

PCT Percent

PCTE Portable Commercial Test Equipment
PCTO Payload Cost Tradeoff Optimization

PCU Payload Checkout Unit

Power Control Unit Pressure Control Unit **PCU Process Control Unit** Precheck Verification **PCV** Purge Control Valve

PCVB Pyro Continuity Verification Box **PCVL** Pilot Controlled Visual Landing

Physical Control Zone **PCZ**

PD Pitch Down

> Preliminary Design **Procurement Document Procurement Drawing** Program Directive **Project Directive Propellant Dispersal**

PD&RS Payload Deployment and Retrieval Subsystem

PDA Propellant Drain Area

Program Description and Requirements **PDAR**

PDB Performance Data Book Power Distribution Box

PDC Predefined Command

Procurement Document Change

PDCR Proprietary Data Control Record

Power Distribution and Control System (Subsystem) **PDCS**

PDH Pocket Dosimeter-High PDI Payload Data Interleaver

Payload Deployment and Retrieval System

PDL Pocket Dosimeter-Low

Procedure Distribution List

Program Design Language

Processor Data Monitor Pulse Duration Modulation

Pulse Duration Modulation/Frequency Modulation PDM/FM

PDP Plasma Diagnostics Package

> Postinsertion Deorbit Preparation Preliminary Definition Plan Procurement Data Package Program Development Plan

Project Definition Phase

PDR Preliminary Data Requirements

PDM

PDR Preliminary Design Review

Processed Data Recorder Program Design Review Program Director's Review

PDRD Procurement Data Requirements Document

PDRL Procurement Data Requirements List

PDRM Payload Deployment and Retrieval Mechanism

PDRS Payload Data and Retrieval System

Payload Deployment and Retrieval System(s)

PDRSS Payload Development and Retrieval System Simulator
PDRSTA Payload Deployment and Retrieval System Test Article

PDS Package Data System

Partitioned Data Set

Power Distribution System (Subsystem)

Problem Data System

PDU Pilot Display Unit

Power Drive Unit

Pressure Distribution Unit Pulse Detection Unit Pressure Disconnect Valve

PE Project Engineer

PEB Performance Evaluation Board

PED Pedal

PDV

Pedestal

PEFO Payload Effects Follow-on Study
PEIR Project Equipment Inspection Record
PEM Plant Engineering and Maintenance

PEN Penicillin

PEP Power Extension Package

PER Perigee

Period

Preliminary Engineering Report

PERF Perform, Performance

PERM Permanent

PERT Program Evaluation Review Technique

PET Phase Elapsed Time

PETA Performance Evaluation and Trend Analysis

PETB Preflight Test Bus

PETN Petaerythrite Tetranitrate

PETS Payload Environmental Transportation System

P/L Experiment Test System (KSC)

POCC Experiments Timeline System (GDSD and Spacelab)

PF Parachute Facility

Payload Forward Payload Function

Payload Operational Instrumentation MDM-FWD

Power Factor Powered Flight Preflight Prime Function

Probability of Failure
Pulse Frequency

PFA Palmdale Final Assembly

PFB Payload Feedback

Payload Forward Bus Position Feedback Pressure Fed Booster

PFC Performance Flight Certification

Postflight Checklist
Power Factor Corrector

Preliminary Flight Certification
PFCF Payload Flight Control Facility
PFCS Primary Flight Control System

PFK Payload Function Key
PFL Primary Freon Loop

PFM Platform

Pulse Frequency Modulation

PFP Program Financial Plan

Programmable Function Panel

PFR Portable Foot Restraint

PFRT Preliminary Flight Rating Test

PFRX Preflight Relmat (X-1,2,3...9 or A,B,C...Z)

PFS Percent Full Scale

Primary Flight System

PFTA Payload Flight Test Article

PG Power Generation

PG Pressure Gage

PGA Power Generating Assembly

Pressure Garment Assembly
Programmable Gain Amplifier

PGDCS Power Generation, Distribution, and Control

Subsystem

PGE Purge

PGHM Payload Ground Handling Mechanism

PGM Program (able)

PGNCS Primary G&N and Control System (Subsystem)
PGOR Payload Ground Operation Requirements

PGORS Payload Ground Operations Requirements Study

PGR Spacelab Planning and Ground Rule

PGRWG Payload Ground Requirements Working Group

PGS Power Generation Subsystem

PGSE Payload Ground Support Equipment

PGU Plant Growth Unit

PGWG Particles and Gasses Working Group

PH Personal Hygiene

Phase

pH Hydrogen-Ion Concentration (Alkalinity)

PHA Preliminary Hazard Analyses
PHF Personal Hygiene Facility
PHK Personal Hygiene Kit
PHM Per Hundred Million

PHMC Probe Heater Motor Controller

PHOTO Photograph

PHP Payload Handling Panel
PHR Payload Hazardous Report
PHS Payload Handling Station
PI Payload Interrogator

Pen and Ink (Document Update)

Preliminary Investigation Principal Investigator Procurement Item Program Introduction

PIA Preinstallation Acceptance

Project Impact Analysis

PIAR Project Impact Analysis Report
PIB Pyrotechnic Installation Building

PIC Payload Integration Center

Payload Integration Committee

Preinstallation Checkout Programmable Interval Clock

Pyro Ignition Control
Pyro Initiator Capacitors
Pyro Initiator Controller

Pyrotechnic Initiator Controller Program Interface Control Plan

PICP Program Interface Control Plan
PICRS Program Information Control and Retr

Program Information Control and Retrieval System
Program Information Coordination and Review

ervice

Service

PICS Photo Index and Cataloging System

Predefined Input Control Sequence

PID Payload Insertion Device

Program Information Document Program Introduction Document

.PIDA Payload Installation and Deployment Aid

PIDS Portable Image Display System
PIE P/L Integration Equipment

PIECP Preliminary Impact Engineering Change Proposal

PIF Payload Integration Facility

PIGA Pendulous Integrating Gyro Accelerometer
PII Procurement Instrument Identification

PIIN Procurement Instrument Identification Number

PIM Pulse Interval Modulation

PIND Particle Impact Noise Detection

Payload Integration Plan

PIO Pilot-Induced Oscillation

Public Information Office

PIP Payload Integration Plan

Payload Interface Plan

Plant Instrumentation Program
Production Instrumentation Package

Project Implementation Plan

PIPA Pulse Integrating Pendulum Accelerometers

PIPA Pulse Integrating Pendulum Assembly
PIRN Preliminary Interface Revision Notice

PIT Preinstallation Test

PITG Payload Integration Task Group
PITS Payload Integration Test Set

PIU Power Interface Unit

Pyrotechnic Initiator Unit

PIV Peak Inverse Voltage

PK Peak (Valve)
PK/PK Peak to Peak

PKD Programmable Keyboard and Display

PKG Package

PKM Perigee Kick Motor

PKT Pocket

PL Payload (P/L preferred)

Plate Pluq

Postlanding (P/L preferred)

Prelaunch

PL/SNSR Payload Sensor

PLA Parachute Location Aid

PLACE Position Location Aircraft Communications

Equipment

PLAT Platform PLB Payload Bay

PLBD Payload Bay Door(s)
PLBK Playback (PB preferred)
PLD Program Listing Document
PLDI Payload Data Interleaver
PLDM Payload Management
PLDS Payload Support

PLGSS Payload Ground Support Systems

PLH Payload Handling
PLI Payload Interrogator

PLISN Provisioning List Item Sequence Number

PLL Phase Locked Loop
PLM Payload Management

Payload Monitoring

PLMS Program Logistics Master Schedule

PLN Plan

Program Logic Network

PLRD Payload Requirements Document
PLRV Payload Launch Readiness Verification

PLS Payload Systems

Post Landing and Safing Preliminary Landing Site Primary Landing Site Propellant Loading System

Pulse

PLSL Propellants and Life Support Laboratory

PLSP Payload Signal Processor

PLSS Portable Life Support Subsystem

Primary Life Support Subsystem

PLT Pilot

Production Lead Time

PLTS Precision Laser Tracking System

PLUM Payload Umbilical Mast

PLV Postlanding Vent

PLVC Postlanding Vent Control
PM Payload Management
Payload Midbody

Performance Monitor
Phase Modulation
Preventive Maintenance
Project Manager

Pulse Modulation

PMA Performance Monitor Annunciator

PMAD Performance Monitor Annunciation Driver

Power Management and Distribution

PMAP Performance Monitor Annunciation Panel

PMAT Page Map Address Table

PMC Payload Monitoring and Control

Plutona-Molybdenum Cermet Postmanufacturing Checkout Private Medical Communication Procurement Method Code

PMD Palmdale (TACAN Station)

PMDL Palmdale, California

PMEL Precision Measurements Equipment Laboratory
PMF Performance Monitor (Monitoring) Function

Perigee Motor Firing

Program Management Facility

PMHL Preferred Measurement Hardware List
PMI Preventive Maintenance Inspection

Preventive Maintenance Instruction

Principal Maintenance Inspector

PMIA Parallel Multiplexer Interface Adapter
PMIR Program Manager's Integration Review
PMIS Personnel Management Information System

PML Preliminary Materials List
PMM Property Management Manual
PMN Program Management Network

PMOM Performance Management Operations Manual PMON Performance Management Operations Network

PMP Parts, Materials, and Processes

Performance Management Package

Premodulation Processor Program Management Plan

Pump

PMPL Preferred Mechanical Parts List
PMR Performance Measurement Report

Program Manager's Review

PMS Performance Management System

Performance Measurement System Performance Monitoring System

Planning/Management Team

Production Monitoring Test

PMTC Pacific Missile Test Center

PMU PCM Master Unit

PMT

Pressure Measuring Unit

Pulse Modulation Unit

PN Part Number (P/N preferred)

Pseudo Noise

Pseudo-Random Noise

PNEU Pneumatic PNL Panel PNP Prenegotiation Position

PO Personnel Office (KSC Directorate)

Postorbit Purchase Order

POA Plan of Action

POC Payload Operations Center

Purchase Order Closeout

POCC Payload Operations Control Center
POCN Purchase Order Change Notice
POD Payload Operations Division (JSC)

Proximity Optical Device

POE Pilot Operational Equipment POGO Pogo Suppression System

Polar Orbiting Geophysical Observatory

POI Product of Inertia

POL Petroleum, Oil, and Lubricants

POLAR Production Order Location and Reporting

POM Pallet-Only Mode

Printer Output Microfilm

POMT Planning Operations Management Team

POP Perpendicular-to-Orbit Plane

Preburner Oxidizer Pump Preflight Operations Procedures Prelaunch Operations Plan Program Operating Plan

POPA Payload Ordnance Processing Area

POPU Push Over Pull Up
POR Purchase Order Request

PORB Production Operations Review Board
PORCN Production Order Records Change Notice

PORD Performance and Operations Requirements Document

PORR Preliminary Operations Requirements Review

PORT Portable

POS Pacific Ocean Ship

Portable Oxygen System

Position

POST Payload Operations Support Team

Positive

Program to Optimize Simulated Trajectories

POT Potable

Potentiometer

POV Peak Operating Voltage

Pneumatic Operated Valve

POWS Project Operating Work Statement

PP Partial Pressure

Planning Package

Power Pole

Program Performance

Push-Pull

PPB Parts per Billion

Program Performance Baseline

PPC Phased Provisioning Code

Preprocessing Center

PPCO₂ Partial Pressure CO₂

PPEP Plasma Physics and Environmental Perturbation

PPF Payload Processing Facility (USAF)

PPH Pounds per Hour
PPI Plan Position Indicator

Pulse Position Indicator

PPIL Priced Provisioned Item List

PPL Planning Parts List

Priced Parts List

Provisioning Parts List

PPM Part per Minute

Parts per Million Pulse per Minute

Pulse Position Modulation

PPME Pacific Plate Motion Experiment

PPO Partial Pressure O Peak Pulse Power

PPR Payload Preparation Room
PPS Pneumatic Power Subsystem

Printer/Plotter System

Provisioning Performance Schedule

Pulse per Second

PQGS Propellant Quantity Gaging System
PQI Propellant Quantity Indicator

PR Pair

PR Performance Report

Position Record

Pressure

Pressure Ratio
Pressure Regulator

Primary

Problem Report

Procurement Regulation Procurement Requisition

Pulse Rate

Purchase Request

PRACA Problem Reporting and Corrective Action

PRB Panel Review Board

Parachute Refurbishment Building Paso Robles (TACAN Station)

Project Review Board

PRC People's Republic of China (Payload)

People's Republic of China Satellite

Planning Research Corporation

PRCA Problem Reporting and Corrective Action
PRCB Program Requirements Change Board
Program Requirements Control Board

Program Review Control Board

PRCBD Program Requirements Control Board Directive

Program Review Control Board Directive

PRD Personal Radiation Dosimeter

Procurement Regulation Directive Procurement Requirements Document Program Requirements Documents (UDS)

PRE Personal Rescue Enclosure

PRE-MOD Premodulation
PREAMP Preamplifier
PREF Preference
PREFLT Preflight
PREL Preliminary
PREP Preparation

Prepare

PRES Present
PRESS Pressurant

Pressure

PREV Previous PREVLV Prevalve

PRF Parachute Refurbishment Facility

Pulse Repetition Frequency

PRI Primary Primary

PRL Page Revision Log

Priority Rate Limiting

PRM Payload Retention Mechanism

Posigrade Rocket Motor
Pulse Rate Modulation

PRN Program Release Notice

Pseudo-Random Noise Pulse Range Navigation

PRO Proceed
PROB Problem
PROC Procedure

Processor, Process

Procurement

PROG Program

Progress

PROJ Project

PROM Programmable Read-Only Memory

PROP Propellant

Proportioning Propulsion

Propulsion Engineer

PROPLT Propellant PROX Proximity

PRP Personnel Reliability Program

PRPS Programming Requirements Process Specification

PRR Parts Replacement Request

Preliminary Requirements Review Program Requirements Review

Pulse Repetition Rate

PRS Payload Retention Subsystem

Personnel Rescue Service Personnel Rescue System

Power Reactant System (Subsystem)

Precision Ranging System

PRS Primary Recovery Site

Primary Rescue Site

Provisioning Requirements Statement

PRSD Power Reactant Storage and Distribution

Power Reactant Supply and Distribution

PRSDS Power Reactant Storage and Distribution System

PRSS Problem Report Squawk Sheet

PRT Pulse Repetition Time

PRTLS Powered Return to Launch Site
PRV Pressure Reduction Valve

PS Parachute Subsystem
Payload Specialist

Payload Station Payload Support Power Supply Pressure Switch

Prime Select

PS/FC Power Supply/Fuel Cell
PSA Payload Service Area

Payload Support Avionics
Power Servo Amplifier
Power Servo Assembly
Pre/Post Sleep Activity
Preferred Storage Area
Pressure Switch Assembly
Provisions Stowage Assembly

PSAC Presidential Scientific Advisory Committee

PSC Parallel Switch Control

Program Schedule Chart

PSCL Propellant Systems Cleaning Laboratory
PSCN Preliminary Specification Change Notice

PSD Power Spectral Density

Program Support Document

PSDP Payload Station Distribution Panel

PSDR Planning and Scheduling Document Record

PSE Payload Service Equipment

Payload Servicing Equipment

PSU Power Switching Unit
PSV Planetary Space Vehicle
PSW Program Status Word

PT Advanced Planning and Technology Office (KSC Dir.)

Pint

Pitch Trim Point

Pressure Transducer

PTA Posttest Analysis

Potential Toxic Area Propulsion Test Article Payload Timing Buffer

PTB Payload Timing Buffer
PTC Passive Thermal Control

Portable Temperature Controller

PTCR Pad Terminal Connection Room
PTCS Passive Thermal Control Section
Passive Thermal Control System

Planning, Training, and Checkout System Propellant Tanking Computer System

PTD Provisioning Technical Documentation

PTD Data Selection Sheet
PTI Preliminary Test Information
Programmed Test Input

PTIS Program Test Input System
PTM Pulse Time Modulation

PTMS Precision Torque Measuring System
PTO Participating Test Organizations

Power Test Operations

PTP Point-to-Point Phone(s)
PTR Preliminary Test Report

Printer

Program Trouble Report

PTS Payload Test Set

Payload Transportation System

PTT Push-to-Talk

PTV Pathfinder Test Vehicle

PU Pickup

Power Unit

PSE Payload Support Equipment

Peculiar Support Equipment

PSF Processing and Staging Facility (SRB)

Processing and Storage Facility (ET)

psf Pounds per Square Foot
PSFC Power Supply/Fuel Cell
PSG Power Subsystem Group
PSI Power Static Inverter

psi Pounds per Square Inch (Static Pressure)

psia Pound per Square Inch Absolute
psid Pounds per Square Inch Differential
PSIG Propulsion Systems Integration Group

psig Pounds per Square Inch Gage psis Pounds per Square Inch Sealed

PSK Phase Shift Keyed
PSL Pressure Seal
Propellant Seal

PSM Phase Sensitive Modulator

Propellant Storage Module Pyro Substitute Monitor

PSOP Payload Systems Operating Procedures

PSP Payload Signal Processor

Payload Specialist Panel Payload Support Plan Program Support Plan Project Schedule Plan

PSPA Pressure Static Probe Assembly

PSPL Priced Spare Parts List
PSR Program Status Review

PSRD Program Support Requirements Document

PSS Pad Safety Supervisor

Payload Specialist Station Payload Support System Propellant Supply Subsystem Propulsion Support System

PSSP Payload Specialist Station Panel
PSST Periodic Significant Scheduled Tasks
PSSU Patch Survey and Switching Unit

PU Propellant Unit

Propellant Utilization

PUB Publication

PUCS Propellant Utilization Control System
PUGS Propellant Utilization and Gaging System

PUPO Pull Up Push Over

PUSS Pallet Utility Support Structure
PUV Propellant Utilization Valve

PV Prevalve

PV&D Purge, Vent, and Drain
PVA Preburner Valve Actuator
Propellant Valve Actuator

PVD Purge, Vent, Drain System
PVR Precision Voltage Reference

PVRD Purge, Vent, Repressurize, and Drain

PVRO Pyrotechnics

PVT Preflight Verification Test

Pressure, Volume, and Temperature Pressure/Volume/Temperature

Private

Pyrotechnic Verification Test

PVWA Planned Value of Work Accomplished PVWS Planned Value of Work Scheduled

PW Pulse Width

PWA Pratt and Whitney Aircraft

Private Write Area

Product Work Authorization

PWB Printed Wire Board

PWBS Program Work Breakdown Structure

PWM Pulse-Width Modulation

PWMD Printed Wiring Master Drawing

PWR Power

PWS Pricing Work Statement

PY Program Year PYRO Pyrotechnics Q Dynamic Pressure

Pitch Rate (Angular Rate)

Q Alpha
 Pitch Dynamic Pressure
 Q Beta
 Yaw Dynamic Pressure
 Q-BAND
 36,000 to 46,000 MCS
 QA
 Quality Assurance
 QAC
 Quality Assurance Chart

QACAD Quality Assurance Corrective Action Document

QAM Quality Assurance Manual QAP Quality Assurance Procedure

QAR Quality Assurance Responsible/Witness

QATT Qualification for Acceptance Thermal Testing
QAVT Qualification Acceptance Vibration Test

Qualification for Acceptance Vibration Testing

QC Quality Control
QCB Queue Control Block

QCDR Quality Control Deficiency Report
QCOP Quality Control Operating Procedure

QD Quick Disconnect

QDR Qualification Design Review

QDS Quality Data System
QE Quality Engineer
QEC Quick Engine Change
QGS Quantity Gaging System

QL Quick Look

OLDR Ouick Look Data Reference
OLDS Ouick Look Data Station
OLS Ouick Look Station
OM Oualification Motor
OPL Oualified Parts List

Qualified Products List

QPR Quarterly Progress Report

QPRD Quality Planning Requirements Document

QPS Quality Planning Specification

Quantity Planning Specification

QPSK Quadrature Phase Shift Key

QRE Quick-Reaction Estimate
QRI Quick-Reaction Integration

QRIA Quick-Reaction Integration Activity

QRS Quick-Reaction Sortie

QRSL Quick-Reaction Space Laboratory
QSA Qualification Site Approval

QSGVT Quarter Scale Ground Vibration Test

QSL Qualified Source List QSM Quarter Scale Model

QSMVT Quarter Scale Model Vibration Testing

QSS Quindar Scanning System

QT Qualification Test
QTP Qualification Test Plan
QTR Qualification Test Report

Quarter

QTRS Quarters QTY Quantity

QUAD Quandrangle, Quadrant, Quadrature QUADS Quality Achievement Data System

QUAL Qualification, Qualified

Quality

QUAT Quaternion

QUI Quito, Ecuador (STDN)

QUIC Quality Data Information and Control

QUP Quality Unit Pack

QVT Qualified Verification Testing

QVVT Qualified Verification Vibration Testing

R Gas Constant

Radius
Range
Range Rate
Rankine
Ratio
Rear
Receive
Redundant
Regulate
Rehydratable
Reliability
Replace
Resistance
Right
Roentgen

Yaw Rankine Rate

R BAR Radius Vector Axis

Roll

R DOT Range Rate to Target, (+) Opening, (-) Closing R IMP Minimum Range to Avoid Plum Impingement

R&CC Recorder and Communication Control

R&D Research and Development

R&DO Research and Development Operations (MSFC)

R&P Reserve and Process

R&PM Research and Program Management
R&QA Reliability and Quality Assurance

R&R Remove and Replace

Rendezvous and Recovery

R&Z Range and Zero

R-OUT Rollout

R-T Resistance Test
R/A Radar Altimeter
R/C Radio Command
Rate of Climb

Rate of Climb Remote Control R/D Rate of Descent

R/E Reentry

R/IReceiving Inspection R/L

Rate/Limited

Remote/Local

R/O Rollout R/S Range Safety

Redundant Set

R/T Real Time

Receiver/Transmitter

R/W Read/Write

Runway

RA Radar Altimeter (R/A preferred)

> Range Area Right Aft Right Ascension

Ra Radium

RAAB Remote Amplifier and Adaption Box

Remote Application and Advisory Box

RAC Reliability Action Center

RACS Remote Automatic Calibration System

Rotation Axis Coordinate System

RACU Remote Acquisition and Command Unit

RAD Radar Radian

RADAR

RADCC

RAE

RAF

Radiation Dosage

Radius

Roentgen Absorbed Dosage Radio Detecting and Ranging **Radiation Control Center** Radio Astronomy Explorer

Requirements Analysis Form

RAG Reusable Agenda

Research Animal Holding Facility **RAHF**

RAI Radar Altimeter Indicator

Roll Attitude Indicator

RAL Responsibility Assignment List

RALPH Reduction and Acquisition of Lunar Pulse Heights RALT Radar Altimeter

RAMA

RANC

RAM Radar Absorption Material

Random Access Memory

Responsibility Assignment Matrix Recap and Movement Authorization Radar Absorption Noise and Clutter

Research and Applications Module

RANN Research Applied to National Needs
RAPCON Radar Approach and Control
RAS Requirements Allocation Sheet
RAPS Right AFT Propulsion System
RATCC Radar Air Traffic Control Center

RAU Remote Acquisition Unit

RAUIS Remote Acquisition Unit Interconnecting Station

RAX Remote Access Computing System

Remote Access Terminal

RB Radar Beacon

RBA Radar Beacon Antenna

RBC Red Blood Cells

Rotating Beam Ceilometer

RBDE Radar Bright Display Equipment
RBE Radiation Biological Effectiveness

RBK Right Bank

RBL Right Buttock Line

RBMT Retrospective Bibliographies on Magnetic Tape

RBN Radio Beacon
RC Range Command
Rate Command
Recovery Controller

Recurring Cost
Resistance-Capacitance

Reverse Current Rotation Control

RCA Radio Corporation of America (SATCOM)

Remote Control Amplifier

RCAG Remote Center Air-Ground

Remote Control Air-Ground

RCB Remote Circuit Breaker

RCC Range Commanders Council (DOD)

Range Control Center Reinforced Carbon-Carbon Reusable Carbon-Carbon Rough Combustion Cutoff

RCCA Rough Combustion Cutoff Assembly RCCB Remote Control Circuit Breaker

RCCP Recorder and Communications Control Panel

RCD Record

RCDP Record Parallel RCDR Recorder

RCHCS Regenerable CO₂ and Humidity Control System

RCN Requirements Change Notice
RCP Radiation Constraints Panel
Right Circular Polarization

Right Circular Polarizer

RCPT Receipt Receptacle

RCR Retrofit Configuration Record

RCS Reaction Control System (Subsystem)
RCSC Reaction Control Subsystem Controller

RCU Remote Control Unit

RCV Receive RCVR Receiver

RCVS Remote Control Video Switch

RCVY Recovery RCY Recovery

Remaining Cycles

RD Radiation Detection

Reference Designator Requirements Document

Round

RD/SB Rudder Speed Brake
RDA Remote Data Access

Resident Data Area

RDC Reference Designator Code

Request for Document Change

RDCS Reconfiguration Data Collection System

RDD Requirements Definition Document

RDF Radio Direction Finder

Resource Data File

RDM Real-Time Data Manager

RDMTR Radiometer

RDOC Reference Designation Overflow Code

RDOUT Readout

RDP Receiver and Data Processor

Requirements Data Plan

Requirements Development Plan

RDR Raw Data Recorder

Rudder

RDS Rocketdyne Digital Simulator

RDT&E Research, Development, Test, and Evaluation

RDTR Radiator

RDW Response Data Word

Return Data Words

RDX Cyclotrimethylenetrinitramine

RDY Ready

RE Responsible Engineer

RE&T Research Engineering and Test

REAC Reactant
REACQ Reacquisition
REC Receive

Record (RCD preferred)

Recertification RECERT Recharge **RECHG** Reciprocate **RECIP** Recognition RECOG RECON Remote Console Reconfiguration RECONFIG RECONN Reconnaisance Recovery **RECOV RECP** Receptacle

Request for Engineering Change Proposal

RECRC Recirculate

RECS Representative Shuttle Environmental Control System

RECT Rectifier, Rectify

RECV Receive
RECVR Receiver
RED Reduction
REDUN Redundancy
REF Reference

Refurbish, Refurbishment

REFRIG Refrigerate

REFSMMAT Reference Stable Member Matrix

REFURB Refurbish REG Register

Regulator, Regulate

REGEN Regenerate

REI Range from Entry Interface (400 K)

Runway End Identification

REI-Mollite

REIL Runway End Identification Lights

REINF Reinforce
REINIT Reinitialize
REJ Reject
REL Relative
Release

RELMAT Relative Matrix

REM Release-Engage Mechanism

Release Engine Mechanism Release Engine Module Release Escape Mechanism

Remove

Roentgen Equivalent Man

REN RAD Rendezvous Radar

REND Rendezvous REPL Replace

REPR Repressurization
REPRO Reproduction
REQ Request

Require

REQD Required

REQMTS Requirements (RQMTS preferred)

RES Reserve

Reservoir

RESID Residual
RESIS Resistance
RESP Responsibility
RESVR Reservoir
RET Retract
RETEN Retention

RETRO Retro Controller (NASA)

Retrofire

Retrofire Officer

RETRV Retrieve

RETS Reconfigurable Electrical Test Stand

Reconfiguration Electrical Test Stand

REV Reverse

Review Revision Revolution

RF Communications Support

Radio Frequency Right Forward

RF-TK Radio Frequency Tracking

RFA Request for Action

RF Authorization (Frequency)

RFB Ready for Baseline

Request for Bid

RFC Radio Frequency Charts

Request for Change

Request for Change Revolution
Request for Computer Program

RFD Requirements Formulation Document

RFE Request for Estimate

RFEI Request for Engineering Information

RFI Radio Frequency Interference

Remote Facility Inquiry Remote File Inquiry Request for Information

RFL Reflect

RFO Request for Order
RFP Request for Proposal

RFCP

RFP Requirements and Formulation Phase **RFPA** Request for Proposal Authorization

RFQ Request for Quotation RFT Ready for Training

RFW Request for Waiver (Deviation)

RG Radio Guide Rate Gyro

RGA Rate Gyro Assembly

RGAL Rate Gyro Assembly-Left SRB **RGAO** Rate Gyro Assembly-Orbiter RGAR Rate Gyro Assembly-Right SRB

RGM Redundant Gyro Monitor

RGP Rate Gyro Package

RGRMA Rate Gyro Redundancy Management Algorithm

RH Relative Humidity

Right Hand

Right Hand Circular RHC

Rotation Hand Controller

RHCM Relative Humidity Control/Monitor

RHCP Right Hand Circular Polarization (Polarized)

RHEB Right Hand Equipment Bay

RHEO Rheostat

RHFEB Right Hand Forward Equipment Bay

RHL Residual Hazards List Relative Humidity Monitor RHM

RHP Right Hand Panel **RHS** Right Hand Side

Rocketdyne Hybrid Simulator

RHSC Right Hand Side Console RHT Radiant Heat Temperature RHU Radioisotope Heater Unit RHW Router Header Word RΙ Rockwell International RIB

Recoverable Item Breakdown

Right Inboard

RIC Resistance Inductance and Capacitance **Rockwell International Corporation**

Remote Intercomputer Communications Interface

RID Review Item Disposition

RICC

RIDI Receiving Inspection Detail Instruction

RIE Right Inboard Elevon
RIF Relative Importance Factor
RIG Rate Integration Gyro

RIGI Receiving Inspection General Instruction

RIL Recoverable Item(s) List(s)

Repairable Item List Reparable Item List

RIPS Radar Impact Prediction System

RIR Reportable Item Report

RIS Reporting Identification Symbols

RISKAC Risk Acceptance

RIT Request for Interface Tool
RIU Remote Interface Unit
RIV Recirculation Isolation Valve
RJ/EC Reaction Jet/Engine Control

RJC Reaction Jet Control RJD Reaction Jet Device

Reaction Jet Driver

RJDA Reaction Jet Driver Aft
RJDF Reaction Jet Driver Forward
RJEC Reaction Jet Engine Control
RJOD Reaction Jet OMS Driver

RK Recharge

RLA Repair Level Analysis

Repair Line Agreement

RLC Remote Load Controller

RLEO Request Liaison Engineering Order

RLF Relief

RLG Ring Laser Gyro

RLSS Regenerative Life Support System

RLT Return Line Tether

RLY Relay

RM Redundancy Management

Reference Mission Remote Manipulator Rendezvous Maneuver

Rescue Module Right Mid RM/MS&C Redundancy Management/Moding, Sequencing, and

Control

RMA Remote Manipulator Arm

RMC Redundancy Management Control

RMF RCS Module Forward RMG Right Main Gear

RMI Radio Magnetic Indicator

RMRS Repeatable Maintenance and Recall System

RMS Radian Means per Second

Random Motion Simulator Redundancy Management System

Remote Manipulator System (Subsystem)

Root-Mean-Square

RMSVP Remote Manipulator Subsystem Verification Plan

RMT Remote

RN Reynolds Number
RNDZ Rendezvous
RNG Range
RNG RT Range Rate

RO Radar Operator

Readout Receive Only

Recovery Operations

ROB Right Outboard
ROC Record of Comments

Request of Change

ROD Remote Operated Door(s)

ROLL Roll Angle

ROM Read-Only Memory

Rough Order of Magnitude

ROS Regulated Oxygen Supply

Regulated Oxygen System
Removable Overhead Structure

Rosman, North Carolina (STDN Site)

ROT Remaining Operating Time

Rotate, Rotation

ROTI Recording Optical Tracking Instrument

RP Relative Pressure

RP Repair Period

Rocket Propellant

RPA Record and Playback Assembly

Request for Procurement Action (Authorization)

RPC Remote Power Controller
RPE Reliability Project Engineer
RPIE Real Property Installed Equipment

RPL Rated Power Level

RPLC Replace

RPM Revolutions per Minute
RPO Radiation Protection Officer
RPOC Remote Payload Operations Center

RPP Reinforced Pyrolytic Plastic

RPS Record and Playback System (Subsystem)

Revolutions per Second

RPT Resident Provisioning Team

Rudder Pedal Transducer

RPTA Rudder Pedal Transducer Assembly

RPV Remotely Piloted Vehicle
RQ Respiratory Quotient

RQMT Requirement RQMTS Requirements RR Range Rate

Rendezvous Radar Requirements Review Respiration Rate

RREA Rendezvous Radar Electronics Assembly
RREU Rendezvous Radar Electronics Unit

RRI Rendezvous Radar Indicator
RRL Rudder Reference Line
RRP Rudder Reference Plane
RRT Rendezvous Radar Transducer

Rendezvous Radar Transponder

RS Rawinsonde

Redundancy Status Redundant Set Refurbishment Spare Remote Station RTA Real-Time Accumulator

RTAC Research and Technology Advisory Committee

RTB Resistance Temperature Bulb

RTC Real-Time Clock

> Real-Time Command Real-Time Computer Room Temperature Cure

RTCC Real-Time Command Controller

> Real-Time Computer Center (NASA) Real-Time Computer Command (Uplink)

Real-Time Computer Complex

RTCE Rotation/Translation Control Electronics

RTCL Reticle

RTCP Real-Time Communications Processor

RTCS Real-Time Computer System

Rate Damping RTD

Real-Time Display

Resistance Temperature Device

RTE Responsible Test Engineer

RTG Radioisotope Thermal Generation

Radioisotope Thermoelectric Generator

Range (Slant) to Ground

RTHC Rotation-Translation Hand Controller

RTHS Real-Time Hybrid System RTIF Real-Time Interface **RTLS** Return to Launch Site

RTN Return

RTO Responsible Test Organization

RTOP Research and Technology Objectives and Plans

RTR Rotor

RTS Real-Time Supply

Remote Tracking Station

RTSF Real-Time Simulation Facility

RTTV Real-Time Television RTU Remote Terminal Unit

RTV Room-Temperature Vulcanized

RU Remote Unit RUD Rudder

RS Right Side

RSA Reference Satellite A

RS&H Reynolds, Smith, & Hills, Inc.
RS&S Receiving, Shipping, and Storage

RSB Rudder Speed Brake

RSC Range Safety Control/Command

RSCIE Remote Station Communication Interface Equipment

RSD Requirements and Specifications Document

RSDP Remote Site Data Processor RSF Receiving-Safing Facility

Refurbishment and Subassembly Facilities

RSI Reusable Surface Insulation
RSL Resource Support List

RSLV Resolve RSM Resume

RSMM Redundant System Monitor Model

RSO Radiological Safety Office

Range Safety Officer

RSP Rendezvous Station Panel
RSPL Recommended Spare Parts List

RSS Range Safety Switch
Range Safety System
Reactants Supply System
Rib Structure Station

Root Sum Square

Rotating Service Structure

RSSPO Resident Space Shuttle Project Office (Officer)

RST Recessed Selectromatic Terminal

RSTRT Restart

RSU Remote Service Unit

RSVR Reservoir

RSYS Responsible System RT Range-to-Target

Rate

Real Time (R/T preferred)
Receiver-Transmitter
Reference Trajectory

Right

RUPT Interrupt

Rupture

RUT Resource Utilization Time

RV Recirculation Valve

Recovery Vehicle Recovery Vessel Reentry Vehicle Relief Valve Retrieval Vessel

RVCF Remote Vehicle Checkout Facility
RVDT Rotary Variable Differential Transducer

Rotary Variable Differential Transformer

RVN Requirements Verification Network
RVR Runway Visible (or Visual) Range

RVS Reverse

RW Response Word
RWD Right Wing Down
RWM Read/Write Memory
RYD Real Year Dollars
RZ Return-to-Zero

(S) Safe (Task Classification)

S Second Side

> Star Stere

S CHG Supercharge S PRES Star Present S TRK Star Tracker

S&A Safe and Arm (Device)

Science and Application

S&AD Science and Applications Directorate
S&E Science and Engineering (MSFC Directorate)

s Second (Astronomical Tables)

S-BD S-Band

S-Band 1550 to 5200 MHz
S-N Stress Number
S/A Safe and Arm
Scheduled/Actual
Site Activation

Spacecraft Adapter

Subassembly

S/AC Stabilization/Attitude Control

S/B Standby

S/C Sensor/Controller

Signal Conditioner
Software Contractor

Spacecraft

Splitter/Combiner Stabilization and Control Stripchart (Recorder)

Subcontractor

S/EOS Standard Earth Observation Satellite

S/F Safety Factor

Single Flow

S/G Strain Gage S/L Shop/Laboratory

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S/M Scheduled Maintenance

Service/Maintenance Structural/Mechanical

S/N Serial Number

Signal-to-Noise Ratio

S/O Shutoff

Switchover S/P Serial to Parallel

Signal Processor

S/R Send and Receive

Shift Register

Stimulus/Response

S/S Samples per Second

Single Sideband Space Shuttle

Subsystem

S/Sys Subsystem

S/U Set Up

S/V Space Vehicle

Supply Valve

S/W Software

SA Safing Area

Shaft Angle Single Access

Site Activation Subaccount

Supplemental Agreement

Support Area

SAA Safety Assurance Analysis

South Atlantic Anomaly

SAAC Schedule Allocation and Control
SAALC San Antonio Air Logistics Center
SAAM Special Air Force Airlift Mission
SAAMA San Antonio Air Material Area

SAAS Shuttle Aerosurface Actuator Simulation

SAB Shuttle Avionics Breadboard

Spacecraft Assembly Building Storage and Assembly Building

SAC Strategic Air Command (USAF)

Support Action Center

SACS Software Avionics Command Support

Systems Software Avionics Command Support

SAD Shuttle Authorized Document

Spacecraft Attitude Display Systems Allocation Document

SADEC Spin Axis Declination

SAE Society of Automotive Engineers

SAEF Spacecraft Assembly and Encapsulation Facility

SAES Stand-Alone Engine Simulator SAFE San Andreas Fault Experiment

SAGE Stratospheric Aerosol Gas Experiment
SAIL Shuttle Avionics Integration Laboratory

SAL Scientific Airlock

Shuttle Avionics Laboratory

SALC Sacramento Air Logistics Center
SAM Shuttle Attachment Manipulator
System Activation and Monitoring

SAMP Shuttle Automated Mass Properties
SAMS Shuttle Attachment Manipulator System

SAMSO Space and Missile Systems Organization (USAF)

SAMSOR SAMSO Regulation (now SDR)

SAMTEC Space and Missile Test Center (VAFB, CA)
SAMTECM Space and Missile Test Center Manual
SAMTO Space and Missile Test Organization (VAFB)

SAND Site Activation Need Date
SAP Strain Arrestor Plate
SAR Safety Analysis Report

Search and Rescue

Summary Analysis Report

SARP Safety Analysis Report for Packaging

Shuttle Astronaut Recruitment Program

SART Stimuli Analog Refresh Table

SAS Solar Array System

Stability Augmentation Subsystem

Stability Augmented System

SASTP Stand-Alone Self-Test Program

SAT Saturate, Saturated

Systems Approach to Training

SATAF Shuttle Activation Task Force SATO Shuttle Attached Teleoperator

Supply and Transportation Operations

SATS Shuttle Avionics Test System

Small Applications Technology Satellite

SAU Signal Acquisition Unit

Strap Around Unit

SAVER Shuttle Avionics Verification and Evaluation

SAWD Solid Amine Water Desorbed

SB Space Base

Speed Brake

Synchronization Base

Synchronization Bit

SBA Seat Back Assembly

Small Business Administration Structure Borne Acoustic

SBAS S-Band Antenna Switch
SBC Speed Brake Command

SBCR Stock Balance and Consumption Report

SBD Schematic Block Diagram

SBE Sub-Bit Encoder

SBHC Speed Brake Hand Controller
SBP San Luis Obispo (TACAN Station)

Sonic Boom Panel

SBS Satellite Business System
SBTC Speed Brake/Thrust Controller

SBX S-Band Transponder

SC Scale

Service Charge

Signal Conditioner (S/C preferred)

Statement of Capability Statement of Compatibility

Support Contractor

Surface Command

SCA Schedule Change Authorization

Sequence Control Assembly

Shuttle Carrier Aircraft

SCA Simulation Control Area

Sneak Circuit Analysis

SCAN Antenna Scan

Selected Current Aerospace Notices

SCAPE Self-Contained Atmospheric Protective Ensemble

SCARS Serialized Control and Record System

Serialized Control and Reporting System

Sneak Circuit Analysis Report Summary

SCAS Subsystem Computer Application Software

SCAT Space Communication and Tracking

Storage, Checkout, and Transport

SCATS Simulation Control and Training System

SCB Schedule Change Board

Selection Control Board Selector Control Box Software Control Board

Specification Control Board

SCBD Seller's Approved Configuration Baseline Document

SCC Safety Control Center

Simulation Control Center Standard Cubic Centimeters

SCCB Site Configuration Control Board
SCCH Standard Cubic Centimeters per Hour
SCCM Standard Cubic Centimeters per Minute
SCCS Standard Cubic Centimeters per Second

SCD Source Control Document

Source Control Drawing

Specification Control Document Specification Control Drawing

SCDA Safing, Cooldown, and Decontamination Area

SCDP Simulation Control Data Package SCDR Seller Critical Design Review

Shuttle Critical Design Review
Software Critical Design Review
Subcontractor Critical Design Review
Signal Conditioning and Rivaley Unit

SCDU Signal Conditioning and Display Unit SCE Signal Conditioning Equipment

SCEA Signal Conditioning Electronics Assembly

SCF Safing and Deservicing Facility

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SCF Satellite Control Facility

Sequenced Compatibility Firing Spacecraft Control Facility Standard Charge Factor Standard Cubic Feet Statistical Collection File Sunnyvale Control Facility

SCFH Standard Cubic Feet per Hour
SCFM Standard Cubic Feet per Minute
SCFS Standard Cubic Feed per Second
SCGSS Super Critical Gas Storage System

SCHED Scheduled, Scheduling

SCHEM Schematics

SCI Switch Closure In

SCIM Standard Cubic Inches per Minute SCIS Standard Cubic Inches per Second

SCIT Standard Change Integration and Tracking

SCIU Selector Control Interface Unit

Spacecraft Interface Unit

SCL Secondary Coolant Line

Secondary Coolant Loop

Specification Change Log

SCLM Stability, Control, and Load Maneuvers

SCM Site Configuration Message

Subsystem Configuration Management Subsystem Configuration Monitoring

System Control Module

SCMB Development Configuration Management Board

SCMP System Contractor Management Plan

SCN Specification Change Notice

SCNP Preliminary Specification Change Notice

SCNR Scanner

SCO Start Checkout

Subcarrier Oscillator Super Critical Oxygen

Switch Closure Out

SCOE Special Checkout Equipment

SCOS Subsystem Computer Operating System

SCP Scanner Control Power

Specific Candle Power

SCR Schedule Change Request

Sneak Circuit Report Software Change Request Stripchart Recorders

SCRG System Change Review Group (MSFC)
SCRL Station Configuration Requirement List

SCRS Stripchart Recording System
SCS Secondary Coolant System
Spacecraft Control System

Stabilization and Control System (Subsystem)

SCT Scanning Telescope
SCU Secondary Control Unit

Sequence Control Unit Service and Cooling Umbilical

Signal Conditioning Unit Signal Control Unit

SD Scaling and Display

Smoke Detector

Space Division (AFSC)
Space Division (Rockwell)

Spare Disposition
Specification Document
Supplier Documentation

SD/FS Smoke Detector/Fire Suppression

SD/YVV SD/Launch Base Division

SDA Shaft Drive Axis

Source Data Automation

SDAF Solid Rocket Booster Disassembly Facility

SDB Shallow Draft Barge Shallow Draft Board

SDC Software Development Computer

Spares Disposition Code

SDCL Supplier Documentation Checklist
SDCP Summary Development Cost Plan
SDCS SAIL Data Communications System

SDD Shuttle Design Directive

Software Description Document

SDD Software Design Document
System Design Document
SDE Space Division Evaluator

SDF Safing and Deservicing Facility
Single Degree of Freedom
Software Development Facility

System Development Facility (Breadboard)

SDG Supplier Documentation Group SDH Software Development Handbook

System Development Handbook

SDI Selective Dissemination of Information

SDIF Software Development and Integration Facility

SDL Software Development Laboratory

Standard Distribution List

SDM Shuttle Data Management

Subsystem Design Manuals System Definition Manual Software Development Note

SDN Software Development I SDP Shuttle Data Processor

Site Data Processor

Software Development Plan

Supplier Data Package

SDPC Shuttle Data Processing Complex SDR Software Design Requirements

Software Design Review
Space Division Regulation

Spacelab Disposition Record (ESA)

System Design Review

SDRB Software Design Review Board

Supplier Documentation Review Board

SDRD Supplier Data Requirements Description

Supplier Documentation Review Data

SDRL Supplier Data Requirements List

SDS Shuttle Dynamic Simulation (Simulator)

Software Design Specification

Steering Damping System

SDSS Space Division Shuttle Simulator

SDT Scaling and Display Task

Shuttle Data Tape

SDT Structural Dynamic Test

SDTA Structural Dynamic Test Article

SDVF Software Development and Verification Facilities

SE Support Equipment

System Element

SE&I Systems Engineering and Integration

SE/FAC Support Equipment/Facility
SEA Scanning Electrostatic Analysis

Silicon Elastimeter Ablator

SEACF Support Equipment Assembly and Checkout Facility

SEADS Shuttle Entry Air Data Sensor

Shuttle Entry Air Data System (Subsystem)

SEAID Support Equipment Abbreviated Items Description
SEAPG Support Equipment Acquisition Planning Group
SEARCHS Shuttle Engineering Approach/Rollout Control Hybrid

Simulation

SEB Scientific Equipment Bay

Source Evaluation Board Support Equipment Building Systems Engineering Branch

SEC Secondary

Sequential Events Controller Source Evaluation Committee

sec Second

SECO Sustainer Engine Cutoff

SECS Shuttle Events Control Subsystem
SEE Special Purpose End Effector

Standard End Effector

SEG Segment

System Engineering Groundrule

SEI Support Equipment Installation

System Engineering Instrumentation

SEICO Support Equipment Installation and Checkout

SEL Select, Selector

SEM Scanning Electron Microscope

Seller's Engineering Memo Space Environment Monitoring System Engineering Management SEMS Space Environment Monitor System

SEN Sensor

SEND Shared Equipment Need Date

SENS Sensitivity

SEO Special Engineering Order

SEOS Synchronous Earth Observation Satellite

SEP Separation

Source Evaluation Panel Support Equipment Package

SEPAP Shuttle Electrical Power Analysis Program
SEPAR Shuttle Electrical Power Analysis Report

SEPS Solar Electric Propulsion System

SEQ Sequence, Sequencer

SER Serial

SERB Shuttle Engineering Review Board

Systems Engineering Review Board

SERS Shuttle Equipment Record System

SERV Service

SERVO Servomechanism

SES Shuttle Engineering Simulation

Special Emphasis Study

SESC Shuttle Events Sequential Control

SESL Space Environmental Simulation Laboratory

SEUL Support Equipment Utilization List

SF Safe

Safe, R and QA (R&QA), and Protective Services (KSC

Directorate)
Safety Factor
Scale Factor
Selection Filter
Signaling Frequency

Sliding Filter Star Field Static Firing

Subcontractor Furnished

sq ft Square Feet

SF-SOO KSC Safety Operations Office

SFA Sun Finder Assembly

SFACI Software Flight Article Configuration Inspection

SFC Selection Filter Control

Specific Fuel Consumption

SFCS Survival Flight Control System

SFD Crossfeed

SFDS System Functional Design Specification

SFDT Site Format Dump Tape
SFEX Solar Flare X-ray Polarimeter
SFL Secondary Freon Loop

SFME Storable Fluid Management Experiment

SFO Space Flight Operations

SFOM Shuttle Flight Operations Manual SFOP Safety Operating Procedure (KSC)

SFP Single Failure Point

Summary Flight Plan

SFPA Single Failure Point Analysis
SFPPL Short Form Provisioning Parts List
SFPS Single Failure Point Summary

SFS Shuttle Flight Status

SFSS Satellite Field Service Station

SFT Shaft

Simulated Flight Test Static Firing Test

SFTA Structural Fatigue Test Article
SFTF Static Firing Test Facility

SFTWE Software

SFU Standard Firing Unit

SFW Software

SFWE(M) Static Feed Water Electrolysis (Module)

SG Signal Generator

SGC Stabilized Ground Cloud SGLS Space Ground Link Station Space Ground Link System

Simulated Greenwich Mean Time

SGOS Shuttle Ground Operations Simulation (Simulator)

SGP Single Ground Point SGS Steep Glide Slope

SGSC Strain Gage Signal Conditioner

SGMT

SH₂ Supercritical Hydrogen SHA Sidereal Hour Angle System Hazard Analysis

SHAG Simplified High Accuracy Guidance (Honeywell)

SHDN Shutdown

SHE Supercritical Helium

SHERB Sandia Human Error Rate Bank

SHF Super High Frequency

SHLB Simulation Hardware Load Boxes

SHLD Shield SHLDR Shoulder

SHORAN Short Range Navigation SHP Shaft Horsepower

SHRD Shroud

Supplemental Heat Rejection Devices

SHS Simulation Hardware System

SHTR Shutter SHUTDN Shutdown

SI Center Support Operations (KSC Directorate)

International System of Units (ISU preferred)

Scientific Instrument

Solar Inertial

SIA Shuttle Induced Atmosphere

Software Impact Assessment Solar Inertial Attitude

SID Shuttle Integration Device

Simulator Interface Devices Standard Interface Document System Interface Document Shuttle Interface Equipment

SIE Shuttle Interface Equipment

SIES Supervision, Inspection, Engineering, and Services

SIG Signal

SIG CONDR Signal Conditioner SIG GEN Signal Generator

SIL Silver

Sound Interference Level Systems Integration Laboratory

SILTS Shuttle Infrared Leeside Temperature Sensing

SIM Scientific Instrumentation Module

Simulate, Simulation

SIMAS Shuttle Information Management Accountability

System

SIMCOM Simulation Complex SIMFAC Simulation Facility SIMO Simultaneously

SIMR Systems Integration Management Review
SIMS Shuttle Imaging Microwave System

Shuttle Inventory Management System

SIMU Simulated Inertial Measurement Unit

SIN Sine

SIO Serial Input/Output

Systems Integration Office

SIP Scientific Instrument Package

Separation Instrument Package

Strain Isolator Pad

Systems Integration Office

SIPS Small Instrument Pointing System

SIR Shuttle Imaging Radar

Software Initiated Restart
System Interface Requirements
Systems Integration Review

SIR-A Shuttle Imaging Radar-A

SIRR Software Integration Readiness Review

SIS SAIL Interface System

Scanning Imaging Spectrometer

Serial Input Special

Shuttle Information System Shuttle Interface Simulator

Simulator Interface System (Subsystem) Software Implementation Specification

Software Integrated Schedule Standard Interface Specification Systems Integration Schedule

SISWG STS Integrated Schedule Working Group

SIT Shuttle Integrated Test

Shuttle Interface Test

Situation

Software Integrated Test

SIT SSV Integrated Test
SIU Signal Interface Unit

SIV Sieve

SIVE Shuttle Interface Verification Equipment

SKD Singer, Kearfott Division

SL Sea Level

Seal

Shelf Life Sound Level

Spacelab

SL&I System Load and Initialization

SL-SS Spacelab Subsystems

SL-SSS Spacelab Subsystem(s) Segment

SLA ERNO Spacelab Product Assurance Department

Support and Logistics Areas

SLAC Stanford Linear Accelerator Center

SLAHTS Stowage List and Hardware Tracking System

SLAK Spacelab Late Access Kit
SLAM Side Load Arrest Mechanism
SLAR Side Looking Airborne Radar
SLC Space Launch Complex

ERNO Spacelab Project Control

SLCA ERNO Spacelab Contract Administration
SLCC ERNO Spacelab Configuration Management

SLCL Shop/Lab Configuration Layout

SLD Stiff-Leg Derrick

SLE ERNO Spacelab Engineering
SLEMU Spacelab Engineering Model Unit
SLF Shuttle Landing Facility (OLF)
SLI ERNO Spacelab Integration and Test

SLL Shelf Life Limit
SLM Sound Level Meter
SLN ERNO Spacelab Payload
SLO ERNO Spacelab Operations

SLOS Star Line of Sight

SLP ERNO Spacelab Program Office

SLPB Spacelab Program Board

SLRV Shuttle Launched Research Vehicle

SLS Secondary Landing Site

Sortie Lab Simulator Spacelab Simulator

Statement Level Simulator

SLSA Shuttle Logistics Support Aircraft
SLSMS Spacelab Support Module Simulator

SLT ERNO Spacelab Technology

SLV Space Launch Vehicle

SM Short Module

Shuttle Management (KSC)

Soft Manual Stable Member Support Module Systems Management

SM&S Systems Management and Sequencing SM/PM System Management/Performance Monitor

SMAB Solid Motor Assembly Building

SMAG Star Magnitude

SMART Shuttle Meeting Action - Item Review Tracking

SMB Space Meteorology Branch
SMC Scientific Manpower Commission
SMCC Shuttle Mission Control Center
SMCH Standard Mixed Cargo Harness

SMCS Separation Monitor and Control System
SMCU Separation Monitoring Control Unit
SMD Spacelab Mission Development

Special Measuring Device Special Measuring Service

SMDC Shielded Mild Detonating Cord

SMEAR Span/Mission Evaluation Action Request SMES Shuttle Mission Engineering Simulator

Shuttle Mission Evaluation Simulation (Simulator)

Superconduction Magnetic Energy Storage

SMG Spaceflight Meteorology Group
SMIA Serial Multiplexer Interface Adapter
SMIR Shuttle Multispectral Infrared Radiometer

SML Structure Mold Line
SMM Solar Maximum Mission

SMM Subsystem Measurement Management
SMMD Specimen Mass Measurement Device
SMOC Simulation Mission Operation Computer

SMP Software Management Plan

SMPM Structural Materials Property Manual

SMPTRB Shuttle Main Propulsion Test Requirement Board

SMQ Structure Module Qualification Test

SMR Source, Maintenance, and Recoverability (Code)

Spin Motor Rotational Detector

Spin Motor Run Discrete

SMRM Solar Maximum Repair Mission
SMS Separation Mechanism Subsystem

Shuttle Mission Simulator Solar Maximum Satellite

Synchronous Meteorological Satellite

SMSCC Shuttle Mission Simulator Computer Complex

System

SMSI Standard Manned Space Flight Initiator

(see NSI-I)

SMT Selective Message Transaction

SMTAS Shuttle Model Test and Analysis System

SMU Soft Mockup

SMRD

SMVP Shuttle Master Verification Plan

SMVRD Shuttle Master Verification Requirements Document

SMW Standard Materials Worksheet

SNF System Noise Figure SNR Signal-to-Noise Ratio

SNSO Space Nuclear Systems Office

SNSR Sensor

SO Support Operations (KSC Dir.)

SO₂ Sulphur Dioxide

SOAR Shuttle Orbital Applications and Requirements
SOARS Shuttle Operation Automated Reporting System
SOATS Support Operation Automated Training System

SOC Simulation Operations Center

Simulation Operation Computer

System Option Controller

SOCAR Shuttle Operational Capability Assessment Report

SOCC Satellite Operations Control Center
SOCH Spacelab Orbiter Common Hardware

SOCS Subsystem Operation and Checkout System

SODB Shuttle Operational Data Book

Start of Data Block

SODS Shuttle Operational Data System

Skylab Orbit-Deorbit System

SOF Safety of Flight

SOFI Spray-on Foam Insulation

SOFT Space Operations and Flight Techniques

SOH Start of Heading

SOIS Spacelab/Orbiter Interface Simulator

SOL Solar

Solenoid

SOLN Solution

SOM Ship Operations Manager (NASA)

Spares Optimization Model Standard Operating Manual

SOMF Start of Minor Frame

SOMS Shuttle Orbiter Medical System

SOP Secondary Oxygen Pack

Spacelab Opportunity Payload Standard Operating Procedure Subsystem(s) Operating Procedure Subsystem Operating Program

Systems Operation Plan

SOPC Shuttle Operations and Planning Center

Shuttle Operations Planning Complex

SOR Specification Operational Requirement

Stable Orbit Rendezvous

SORPTR South Repeater
SORTIE Short Term Mission
SOS Serial Output Special
Source of Supply

Stabilized Optical Sight

SOT Strap-on Tank

SOTS Suborbital Tank Separation

SOV Shut-off Valve

Solenoid Operated Valve

264

SOW Start of Word

Statement of Work

Subdivision of Work

SOX Supercritical Oxygen

SP Shoulder Pitch

Shuttle Projects Office (KSC)

Signal Processor Single Pole Single Precision Solar Physics

Spare Spin

Standard or Peculiar Static Pressure

SP&S Special Processes and Sequencing

SP-AF Air Force STS Liaison Office (KSC Shuttle)

Air Force Support Office (KSC)

SP-FGS Flight and Ground Systems Office (KSC Shuttle)
SP-ILS Integrated Logistics Support Office (KSC Shuttle)

SP-LMO Logistics Management Office (KSC)

SP-OPI Operations Planning and Integration Office (KSC

Shuttle)

SP-OSO Off-Site Offices (KSC Shuttle)

SP-PAI Project Assessment and Integration Staff (KSC)

SP-PCO Program Control Office (KSC Shuttle)
SP-SMO Site Management Office (KSC Shuttle)

SP-PMS Performance Management Systems Office (KSC)

SPA S-Band Power Amplifier

Servo Power Amplifier Shared Peripheral Area Signal Processor Assembly Space Processing Application

SPACE Spacecraft Prelaunch Automatic Checkout Equipment

SPAD Shuttle Payload Accommodation Document

Subsystem Positioning Aid Device

SPADS Shuttle Problem Analysis Data System

Shuttle Problem Action Data System

SPAF Simulation Processor and Formatter

SPAH Spacelab Payload Accommodations Handbook

SPAN Spacecraft Analysis

SPART Space Research and Technology SPAS Shuttle Pallet Satellite (German)

SPKB Speed Brake

SPC Shipping and Packing Cost

Starting Point Code

Stored Program Command
Synoptic Properties Code
STS Processing Control Cen

SPCC STS Processing Control Center SPCU Simulation Process Control Unit SPCW Stored Program Command Word

SPD Speed

Standard Practice Directive

SPDB Subsystem Power Distribution Box

SPDBK Speed Brake

SPDCI Standard Payload Display and Control Interface

SPDR Software Preliminary Design Review

SPE Solid Polymer Electrolysis

Static Phase Error

SPEC Specialist Function

Specification

SPECT Spectrometer

SPEE Special Purpose End Effector

SPF Single Point Failure

Software Production Facility
Spacelab Processing Facility

SPFA Single Point Failure Analysis SPFP Single Point Failure Potential

SPG Signal Point Ground

Single Point Ground

SPHER Spherical

SPI Surface Position Indicator

SPIAP Shuttle/Payload Integration Activities Plan

SPICE Spacelab Payload Integration and Coordination in

Europe

SPIDF Support Planning Identification File

SPIDPO Shuttle Payload Integration and Development Program

Office (JSC)

SPIF Standard Payload Interface Facility

SPII Shuttle Program Implementation Instruction
SPIMS Shuttle Program Information Management System

SPKR Speaker

SPL Scratch Pad Line

Serialized Parts List Sound Pressure Level

System Programming Language

SPLX Simplex SPLY Supply

SPM Subsystem Project Manager

SPMS Special Purpose Manipulator System

SPN Shuttle Project Notice (KSC)

SPND Suspend

SPO Shuttle Projects Office

Spare Parts Order

System Program Office

SPOC Shuttle Payload Operations Contractor
SPOM STS Planning and Operations Management

SPP Simulation Planning Panel

Solar Physics Payload

SPPIL Shuttle Preferred Pyrotechnic Items List

SPPL Spare Parts Provisioning List

SPPP Spacelab Payloads Processing Project

SPR Software Problem Report

Subcontractor Performance Review

SPRAG STS Payloads Requirements and Analysis Group

SPRT Sequential Probability Ratio Test

SPS Samples per Second

Secondary Propulsion System Service Propulsion Subsystem Shuttle Procedures Simulator

Solar Power Satellite

Statement of Prior Submission

SPT Support

SPTD Supplemental Provisioning Technical Documentation

SPVPF Shuttle Payload Vertical Processing Facility

SQ FT Square Feet
SQL Squelch
SQW Square Wave
SR Scan Ratio

Shift Register Standard Repair

Statement of Requirements

Status Register Status Report Status Review Sunrise

Support Request Support Room

SR&Q Safety, Reliability, and Quality

SR&QA Safety, Reliability, and Quality Assurance

SRA Spin Reference Axis

Support Requirements Analysis Space Radiation Analysis Group

SRB Solid Rocket Booster
SRBAB SRB Assembly Building
SRBDF SRB Disassembly Facility

SRBPF Solid Rocket Booster Processing Facility

SRC Sample Return Container

SRCB Software Requirements Change Board

Software Requirements Control Board

SRCBD Software Requirements Change Board Directive

Software Requirements Control Board Directive

SRCH Search

SRD Shuttle Requirements Definition

Shuttle Requirements Document Systems Requirements Document

SRDH Subsystems Requirement Definition Handbook

System Requirements Definition Handbook

SRE STDN Ranging Equipment
SRF Shuttle Refurbishment Facility
SRH Subsystems Requirements Handbook

SRM Solid Rocket Motor

Specification Requirements Manual

SRAG

SRM Standard Reference Material

SRMC Stimulus/Response Measurements Catalog

SRN Software Release Notice
SRO Supervisor Range Operations

SRPA Spherical Retarding Potential Analyzer

SRR Shuttle Requirements Review

Site Readiness Review

Software Requirements Review
System Requirements Review

SRS Simulated Remote Station

Software Requirements Specification

Specification Revision Sheet Support Requirements System

SRSF SRB Receiving and Subassembly Facility

SRB Refurbishment and Subassembly Facility

SRSR Schedule and Resources Status Report

SRSS Shuttle Range Safety System
SRT Shuttle Requirements Traceability

Special Rated Thrust

Specification Requirements Table

Station Readiness Test

Supporting Research and Technology

SRU Shop Replacement Unit

Shop-Replaceable Unit Space Replaceable Units

SRVL Survival

SS Shuttle System

Single Sideband Single String Space Shuttle Space Station Station Set Subsystem Sunset

System Software System Specification System Summary

SS&A Space Systems and Applications

SSA S-Band Single Access

Shuttle Simulation Aircraft

SSA Space Suit Assembly

SSA I/O GCOS Program Element Name
SSAT Shuttle Service and Access Tower

Space Shuttle Access Tower (now FSS)

SSB Single Sideband

Source Selection Board

SSBC Summary Sheet Bar Chart SSC Shuttle System Contractor

> Single-Stage Command Solid-Solution Cermet Subsystem Computer

Subsystem Sequence Controller Surface Sampler Control Assembly

SSCA Surface Sampler Control Assembly
SSCC Support Services Control Center
SSCHS Space Shuttle Cargo Handling System
SSCL Shuttle System Commonality List
SSCP Small Self-Contained Payloads
SSCSP Space Shuttle Crew Safety Panel
SSD Spacecraft Software Division

System Summary Display

SSDD Software System Design Document

SSDH Subsystem Data Handbook
SSDS Space Station Data System
SSE Space Shuttle Engines
Subsystem Element

Subsystem Support Equipment

SSEOS Space Shuttle Engineering and Operations Support

SSF SRB Storage Facility

SSFGSS Space Shuttle Flight and Ground System Specification

SSFL Santa Susana Field Laboratory
SSFS Space Shuttle Functional Simulator

SSHB Station Set Handbook
SSI Significant Structural Item

SSIBD Shuttle System Interface Block Diagram
SSID Shuttle Stowage Installation Drawing
SSIP Systems Software Interface Processing
SSIS Space Station Information System
SSITP Shuttle System Integrated Test Plan

SSL System Software Loader
SSM Spacecraft Systems Monitor

Subsystem Manager Support System Module Systems Support Module

SSMB Space Shuttle Maintenance Baseline

SSME Space Shuttle Main Engine

SSMEC Space Shuttle Main Engine Controller

SSMECA Space Shuttle Main Engine Controller Assembly

SSME Controller Assembly

SSO Safety Signification Operation

Source Selection Official Space Shuttle Orbiter

Subsystem Operation (in Spacelab)

Support System for OEX

SSOP Space Systems Operating Procedure(s)

SSP Small Sortie Payload

Space Shuttle Program

Standard Switch Panel

SSPC Spacelab Stored Program Command SSPD Shuttle System Payload Data

Shottle System Payload Data

Shuttle System Payload Definition (Study)

Shuttle System Payload Description
Space Shuttle Payload Data Activity

SSPDA Space Shuttle Payload Data Activity
SSPDB Subsystem Power Distribution Box
SSPDS Space Shuttle Payload Data Study

SSPGSE Space Shuttle Program Ground Support Equipment

SSPM Space Shuttle Program Manager SSPO Space Shuttle Program Office SSPP System Safety Program Plan

SSPPSG Space Shuttle Payload Planning Steering Group

SSPRO Space Shuttle Program Resident Office

SSPS Space Shuttle Program Schedule

SSPTF Santa Susana Propulsion Test Facility (see SSFL)

SSR Shop Support Request

Staff Support Room Station Set Requirement System Requirements Review SSRD Station Set Requirements Documents System Software Reference Number SSRN SSRR Station Set Requirements Review

SSS Sound Suppression System

> Space Shuttle System Stage Separation Subsystem Station Set Specification

Subsystem Segment

Space Shuttle System Specification SSSS

SST Single System Trainer

Spacecraft Systems Test Structural Static Test

Subsystem Terminal on Spacelab

SSTC Space Shuttle Test Conductor SSUS Spinning Solid Upper Stage

SSUS for Atlas-Centaur Class Spacecraft SSUS-A

SSUS for Delta Class Spacecraft SSUS-D **SSUSP** Spinning Solid Upper Stage Project

Space Shuttle Vehicle SSV

ST Self Test

> Sequential Timer Simplification Task Space Telescope Spacelab Technology Special Tooling Star Tracker Starter

Static Structural

STA Shuttle Training Aircraft

Static Test Article

Station

Structural Test Article

STAB Stabilize, Stabilizer

Station Data Acquisition and Control **STADAC**

Satellite Tracking and Data Acquisition Network **STADAN**

Space Tracking and Data Acquisition Network

Space Tracking and Acquisition Network **STADN**

STADU System Termination and Display Unit
STAG Shuttle Turnaround Analysis Group
STAR Scientific and Technical Report
Shuttle Turnaround Analysis Report

STARR Schedule, Technical, and Resources Report

STAT Statistics
Status

STBD Starboard STBY Standby

STC Satellite Test Center

Spacecraft Test Conductor Standard Test Configuration Systems Test Complex

STCP Short-Term Cost Plan STD Shuttle Test Director

Standard

STDL Standard Distribution List (letter denoting which list

follows)

STDN Space Tracking and Data Network

Spaceflight Tracking and Data Network

STDY Steady

STE Special Test Equipment

System Test Engineer

STF Spin Test Facility (see DSTF)

Structural Fatigue Test

STG Stage

STIL Software Test and Integration Laboratory

STIRD SAIL Test Implementation Requirements Document

STL Space Technology Laboratories

STLOS Star Line of Sight

STM Signal Termination Module

Static Test Model
Support Test Manager
Software Trouble Note

STO Stow

STN

STOCC Space Telescope Operations Control Center

STP Self-Test Program

Shuttle Technology Panel

STP Space Technology Payload

Space Test Program
Subsystem Test Plan

STPH Static Phase Error

STR Structure

System Test Review

STRB Strobe
STRCH Stretch
STRFLD Star Field
STRG Steering

String

STRL Structural
STRUC Structure
STRUCT Structure

STS Shuttle Test Station

Space Transportation System Structural Transition Section

STSG Shuttle Test Group

STSOPO Shuttle Transportation Systems Operations Program

Office (JSC)

STSR System Test Summary Report
STT Spacelab Transfer Tunnel

STU Special Test Unit

Star Tracker Unit

SU Support Unit
SUB Substitute
SUBJ Subject
SUM Summary

SUMC Space Ultrareliable Modular Computer

SUMM Summary

SUMS Shuttle Upper-Atmosphere Mass Spectrometer

SUP Supply

Support

SUPCRIT Supercritical SUPPR Suppression

SUPSALV Supervisor of Salvage (U.S. Navy)

SUPT Support SUPV Supervisor

SURE Shuttle Users Review and Evaluation

SURF Surface

SURS Standard Umbilical Retraction System
SUSIM Solar Ultraviolet Spectral Irradiance Monitor
SUTAGS Shuttle Uplink Text and Graphics Scanner

SV Safety Valve

Selenoid Valve Shuttle Vehicle Space Vehicle State Vector

SVA&C Shuttle Vehicle Assembly and Checkout SVAB Shuttle Vehicle Assembly Building

SVAC Shuttle Vehicle Assembly and Checkout (Facility)

SVAFB South Vandenberg Air Force Base

SVB Shuttle Vehicle Booster
Space Vehicle Booster

SVC Supervisor Call

SVDS Space Vehicle Dynamic Simulator
SVO Space Vehicle Operations (KSC Dir.)
SVRR Software Verification Readiness Review

SVS Suit Ventilation System

SW Sea Water

Short Wave

Software (SFTWE preferred)

Solar Wing Status Word Switcher (Switch)

SW/PM System Management/Performance Monitor

SWA Support Work Authorization

SWAA Spacelab Window Adapter Assembly

SWAD Subdivision of Work Authorization Document

SWAT Stress Wave Analysis Technique

SWG Software Working Group

SWOB Salaries, Wages, Overhead, and Benefits

SWP Safe Working Pressure SWR Standing Wave Ratio

SWS Switch Scan

SWT Supersonic Wind Tunnel

SWT Sextant SXT Sextant SY

Shoulder Yaw

System

SYM Symbol SYMM Symmetrical SYN Synchronous Synthetic

SYNC Synchronize

SYNCOM **Hughes Spin Stabilized Spacecraft**

Synchronous Communication Satellite (Hughes)

SYS System

SYSTRAN Systems Analysis Translator T Talk/Monitor

Temperature

Test

Thermostabilized Throttle Command

Time Top

Total Temperature

Transformation (Matrix), Transpose (Matrix

Superscript)

T Temperature Rate
T&CD Timing and Countdown
T&CP Test and Checkout Procedure
T&D Transportation and Docking

T&E Test and Evaluation
T&M Time and Materials
T&O Test and Operations
T+ Time Postintegration
T- Time Prior to Launch

T-0 Time Zero
T-O Takeoff
T.B. Toggle Buffer
T.P. Transition Period
T/A Turnaround

T/C Telecommunications

Temperature Compensating

Termination Check
Thrust Chamber
Thermal Capacitor
Time Delay

T/D Time Delay

T/CAP

Touchdown

T/E Transporter/Erector
T/L Talk and Listen

Timeline

Transformer Load

T/O Takeover

T/R Tape Recorder

Technical Report
Transformer Rectifier
Transportation Request
Transmit/Receive
Transmitter/Receiver
Transportation Request
Turnaround Requirements

T/T Terminal Timing

Timing/Telemetry

T/TCA Thrust/Translation Control Assembly

T/V Thermal Vacuum
T/W Thrust Weight
Thrust-to-Weight
TA Task Analysis

Test Article Time Actual

Travel Authorization Trunnion Angle

TAA Technical Assistance Agreement

Temporary Access Authorization

TAC Kennedy Space Center Landing Site, Florida

(STDN Site)

Tactical Air Command Total Average Cost

TAC/RA TACAN Radar Altimeter

TACAN Tactical Air Command and Navigation System

Tactical Air Navigation

TACH Tachometer

TACO Test and Checkout Operations
TAD Temperature and Dewpoint

TAEM Terminal Area Energy Management

TAG Technical Air-to-Ground
TAGS Text and Graphics System
TAIR Test Assembly Inspection Record
TAL Transatlantic Abort Landing

Transoceanic Abort Landing

TALAR Tactical Approach and Landing Radar

TAM Thermal Analytical Model

TAN Tananarive, Madagascar (STDN Site)

TAO Trans-Atlantic Abort

TAP Technical Achievement Plan

Telemetry Acceptance Pattern Test Administration Plan

Total Air Pressure

TAR Technical Analysis Request

Test Action Requirement

Test Agency Report

TARC Through Axis Rotational Control TAS Telemetry Antenna Subsystem

Test Article Specification

True Airspeed

TASPR Technical and Schedule Performance Report

TAT Technical Acceptance Team

Total Air Temperature

Turnaround Time

TAT! Total Air Temperature Indicator

TB Talk Back

Terminal Base Terminal Board Time Base

Time Duration of Burn

Toggle Buffer

TBA To Be Added

To Be Announced

TBC Terminal Buffer Controller

TBD To Be Defined

To Be Determined To Be Developed

TBE To Be Evaluated

TBF Test de Bon Fonctionnement (Spacelab)

TBI Through-Bulkhead Initiator

TBN To Be Negotiated TBP To Be Provided

TBS Task Breakdown Structure

To Be Specified To Be Superseded To Be Supplied TC Telecommunications

Temperature Compensating Test Conductor (Contractor) Test Conductor (Controller)

Thermal Control
Thermocouple
Thiokol Corporation
Thrust Chamber
Time to Circular
Traceability Code
Tracking Camera

TCA Thrust Chamber Assembly

Time of Closest Approach

Translation Controller Assembly

TCAB Temperature of Cabin
TCC Test Control Center

Thermal Control Coating

TCD Test Completion Date

Test Control Document

TCE Thermal Canister Experiment
TCF Tank Checkout Facility
TCG Test Control Group
Time Code Generator

Technical Critical Item

TCID Test Configuration Identifier Document

TCMD Transportation Control and Movement Document

TCN Test Change Notice

Transportation Control Number

TCO Taken Care of

Test and Checkout

TCOP Test Checkout Plan(s)
TCP Task Control Packet
Test Checkout Procedure
Test Control Package
Thrust Chamber Pressure

Test Compare Results

Test Conductor

Test Constraints Review

TCR

TCI

TCR Thermal Concept Review

TCRSD Test and Checkout Requirements Spec. Documentation

TCS Technical Change Summary

Technical Concurrence Sheets Test Control Supervisor

Test Control System

Thermal Control System (Subsystem)

TCSSS Thermal Control Subsystem Segment
TCTI Time Compliance Technical Instruction
TCTO Time Compliance Technical Order

TCU Tape Control Unit

TCV Temperature Control Voltage

Thrust Chamber Valve

TD Technical Directive

Terminal Distributor
Test Director (NASA)

Time Delay Touch Down

TD&SA Telephone, Data, and Special Audio

TDD Task Description Document

TDM Time-Division Multiplexing (Multiplexer)

TDP Temperature and Dewpoint

Tracking Data Processor

TDR Technical Design Review

Technical Documentation Report

Test Discrepancy Report

TDRR Test Data Recording and Retrieval TDRS Telemetry Downlist Receiving Site

Tracking and Data Relay Satellite

TDRSS Tracking and Data Relay Satellite System

TDS Technology Demonstration Satellite

Test Data System

TDU Time Display Unit
TDV Test Data Van
TDY Temporary Duty
TE Test Equipment

Time Earliest/Expected Timing Electronics

TE Trailing Edge

TEC Test Equipment Center

TECH Technical Technician

TED Trailing Edge Down
TELCOM Telecommunications

TELESAT (Canadian Payload, Communication Satellite)

TEMP Temperature

Test and Evaluation Master Plan

TEMS Transport Environment Monitoring System

TEOS Tetraethyl Orthosilicate
TEP Technical Evaluation Panel

Test Evaluation Plan

TER Test Equipment Readiness

Time Estimating Relationship

TERL Test Engineer Readiness List

Test Equipment Readiness List

TERM Terminate
TESH Technical Shop
TET Test Evaluation Team

TF Test Facility

Test Fixture

TFC Time from Cutoff

TFCS Triplex Flight Control System (Subsystem)

TFE Time from Event
TFF Time to Free Fall
TFI Time from Ignition
TFL Telemetry Format Load

Time from Launch

TFOV Total Field of View

TFR Trouble and Failure Report
TFS Telemetry Format Selection
TFU Test Facility Utilization

TG Ground Systems (KSC Directorate)

Ground Systems, TS

TGA Thermal Gravimetric Analysis

Trace Gas Analyzer

TGO Time to Go

TGOWG Teleoperator Ground Operations Working Group

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TGS Rate Gyro Assembly

Telemetry Ground Station
Telemetry Ground System

TGSE Telemetry Ground Support Equipment

TGT Target

THC Translation Hand Controller
THDS Time Homogeneous Data Set

THEO Theoretical THERM Thermal THOLD Threshold THOUS Thousand

THP Thrust Horsepower

THROT Throttle

TI Information Systems (KSC Directorate)

Information Systems (TS)
Technical Integration

Training Integrator (Integration)
TIC Technical Information Center

Total Item Change

TICM Test Interface and Control Module

TIFS Total In-Flight Simulator

TIG Time of Ignition

TII Tooling Inspection Instrumentation
TIM Technical Interchange Meeting

Time Interval Monitor
Thrust Inlet Pressure

TIROS Topographical Infrared Operations Satellite

TIS Test Interface Subsystem

TK Tank

TIP

TLC

TL Lot Traceability

Thrust Level
Time Latest
Transient Load
Telecommand

TLCE Transmission Line Conditioning Equipment

TLD Thermoluminescent Dosimeter

TLM Telemetry
TLS Time Line Sheet

TLS Top Left Side

TLSA Torso Limb Suit Assembly

TLSCP Telescope

TLV Threshold Limit Value

Transporter-Loader Vehicle

TM Member Traceability

Table Maintenance Technical Management

Telemetry

Time Management Traffic Model

TMB Transportation Management Bulletin
TMBU Table Maintenance Block Update

TMC Test Monitoring Console

TMF Transporter Maintenance Facility
TMECO Time of Main Engine Cutoff
TMG Thermal Meteoroid Garment
TMI Technical Management Items
TMO Test Manufacturing Order
Tool Manufacturing Order

TMP Terminal Panel

Time Management Processor

TMPRY Temporary

TMPV Torquemotor Pilot Valve

TMR Timer

TMU Temperature Measurement Unit

TN Technical Note

TNL Tunnel

TNT Trinitrotoluene

TO Operations Management (KSC Directorate)

Operations Management (TS)

Takeoff
Task Order
Technical Order

TOC Test Operations Center

Test Operations Change Total Organic Carbon

Test Operations Facility

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TOF

TOG Toggle

TOI Transfer Orbit Insertion

TOL Tolerance

TOO Test Operations Order

Threshold of Odor

TOP Technical Operating Procedure

TOPS Transistorized Operational Phone System

TOS Test Operating System

TOT Total

TOW Tank and Orbiter Weight

TP Test Point

Test Port
Test Procedure
Time to Perigee
Training Plan

Transition Period (T.P. preferred)

True Position Turbo Pump

Type

TP&C Thermal Protection and Control

TPA Test Preparation Area

TPAD Trunnion Pin Attachment Device
TPC Telemetry Preprocessor Computer
TPDS Test Procedures Development System

TPE Test Project Engineer

TPF Terminal Phase Finalization (Braking)

Terminal Phase Finish Transfer Phase Final Tug Processing Facility Terminal Phase Initiation

TPM Technical Performance Measurement (System)

Terminal Phase Maneuver Terminal Phase Midcourse Transfer Phase Midcourse Terminal Phase Midcourse #1

TPM2 Terminal Phase Midcourse #2

TPO Test Program Outline

TPR Teleprinter

TPI

TPM1

TPR Test Problem Report **TPS** Test Preparation Sheet

Thermal Protection Subsystem

Thermal Protection System (SRB, ET, or Orbiter)

Twisted Pair Shielded

TPSE Thermal Protection Subsystem Experiments

TPUN Test Procedure Update Notice

T/R Transmitter/Receiver TR **Technical Report** Test Request Thrust Reverser Time to Retrofire

Transportation Request

Teleoperator Retrieval/Skylab Boost System TR/SBS Payload Furnished Mars Tape Recorder (1 of 2) TR1 TR2 Payload Furnished Mars Tape Recorder (2 of 2)

TRA Training Requirements Analysis

Turnaround Requirements Analysis

TRACS Tool-Record Accountability System

TRAJ Trajectory **TRANS** Transition Translation TRANSL Translation

TRB

Technical Review Board

Test Review Board

TRBL Troubleshooting

Tape Recorder Control Panel (L10) TRCP TRD Test Requirements Document Tuned Radio Frequency TRF

TRK Track Tracker TRKR

Test Readiness List TRL

TRN Trunnion **TRNG Training** TRQ Torque

Test Readiness Review TRR TRRB Test Readiness Review Board Teleoperator Retrieval System TRS

Time Reference System

Top Right Side

TRS Troubleshooting Record Sheet

Tug Rotational System

TRSD Test Requirements Specification Document

TRUN ANG Trunnion Angle
TS Serial Traceability

Technical Support (KSC Directorate)

Tensile Strength

Test Site
Test Stand
Test Station
Time Scheduled
Timing System

TSA Test Start Approval

TSAC Tracking System Analytical Calibration

TSB Temporary Stowage Bag

Twin Sideband

TSC Test Setup Complete

Test Support Coordinator

Two-Stage Command

TSCION TSC I/O Number

TSCO Test Support Coordination Office

Test Support Coordinator

TSCP Training Simulator Control Panel

TSD Test Start Date

TSE Transportation Support Equipment

TSGP Test Sequence Generator Program (ESTEC)

TSLD Troubleshooting Logic Diagram

TSM Tail Service Mast

Trade Study Management

TSO Time Sharing Option

Time Since Overhaul

TSP Test Software Program

Twisted Shielded Pairs (Cables)

TSR Technical Status Review

Test Status Report

TSRA Total System Requirements Analysis

TSS Time Sharing System

TPS Summary Sheet Control

TSS Tug Structural Support
TSSU Test Signal Switching Unit

TST Test

TSU Time Standard Unit TSW Test Software

Test Switch

TT Terminal Timing

Thrust Termination Total Temperature

Total Time

TT&C Tracking Telemetry and Control
TTA Thermomechanical Test Area

Time to Apogee

TTC Telemetry, Tracking, and Command

Time to Circularize (Orbit)
Tunnel Thermal Control

TTCA Thrust Translation Controller Assembly
TTCV Tracking Telemetry, Command, and Voice

TTE Time to Event

TTEL Tool and Test Equipment List

TTG Time to Go

TTL Transistor-Transistor Logic
TTLM Through-the-Lens Light Metering

TTP Time to Perigee
TTU Timing Terminal Unit

TTV Termination, Test, and Verification

TTY Teletype

TU Technical Utilization

Technology Utilization

Transport Unit

TUL Tula Peak, NM (STDN site)

TURB Turbine
TV Television

Thermal Vacuum
Thrust Vector
Transport Vehicle

TVA Thrust Vector Alignment

TVAR Test Variance

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TVC Thermal Vacuum Chamber

Thrust Vector Control

TVCA Thrust Vector Control Actuator
TVCD Thrust Vector Control Driver
TVCS Thrust Vector Control System

TVEXPIS TV Experiment Interconnecting Station

TVN Test Verification Network
TVP Test Verification Program

TVS Toxic Vapor Suit

TVSA Thrust Vector Control Servoamplifier
TVSSIS TV Subsystem Interconnecting Station

TVT Thermal Vacuum Test
TVTA Thermal Vacuum Test Article

TW Tailwind Thumbwheel Time Words

Traveling Wave

TWD Twisted Double Shielded

TWL Total Weight Loss

TWR Tower

TWT Traveling Wave Tube

Trisonic Wind Tunnel (Rockwell)

TWTA Traveling Wave Tube Amplifier TWX Teletype Wire Transmission

TX Translation Hand Controller X-Axis Direction

Transmit Channel

TX/RX Transmitter/Receiver

TY Translation Hand Controller Y-Axis Direction

TYP Typical

TZ Translation Hand Controller Z-Axis Direction

U Underfloor Uranium U-SB Unified S-Band

U/C Under Current

U/D Update

U/L Uplink (UPLK preferred)

U/M Unit of Measure

Unmanned

Unscheduled Maintenance

U/O Used on
U/V Under Voltage
U/W Used with
UA Microampere
UB Upper Brace
Utility Bridge

UBE Universal Bus Exercisor

UBIC Universal Bus Interface Controller

UC Unsatisfactory Condition
UCC Universal Checkout Console
UCD Urine Collection Device
UCN Uniform Control Number

UCPU Urine Collection and Pretreatment Unit

UCR Unsatisfactory Condition Report

UCS Universal Control System

Utilities Control System

UCTA Urine Collection Transfer Assembly

UD Update

UDB Update Buffer

UDF Utility and Data Flow

UDL Updata Link

Update Link

UDMH Unsymmetrical Dimethylhydrazine

UDMH/H Unsymmetrical Dimethylhydrazine Hydrazine Blend

UDOP Ultrahigh Doppler

UDS Universal Documentation System
UER Unique Equipment Register

290

UF Microfarad

UFD User File Directory

UG Microgram

UHF Ultrahigh Frequency

UI Unit of Issue User Interface

UL Underload

Uplink

Upper Left (S-Band Antenna)

Upper Limit

ULA Fairbanks, Alaska (STDN Site)

ULL Ullage

ULO Unmanned Launch Operations

ULT Ultimate UMB Umbilical

UMBC Umbilical Cord Cable UMO Unmanned Orbital

UMVF Unmanned Vertical Flight

UNBAL Unbalance
UNDK Undock
UNDV Undervoltage
UNIV Universal
UNLCH Unlatch
UNLK Unlock
UP Upper

UPP User Parameter Processing

UPLK Uplink

UPS Uninterruptible Power Supply

Uninterruptible Power System

Upright Perigee Stage

USA United States of America

USN United States Navy
UPTLM Uplink Telemetry
UR Unsatisfactory Report

Upper Right

URA Urine Receptacle Assembly

URN Urine URT Upright

United States US

Upper Stage

United States Air Force **USAF**

Unified S-Band USB

Upper Side Band

USBE Unified S-Band Equipment United Space Booster, Inc. USBI

Unified S-Band System (Subsystem) USBS

Microsecond USEC

Update Software Identity USI **USNS** United States Navy Ship

Universities Space Research Association **USRA**

USS United States Ship

> United States Standard **Utility Support Structure**

United States Testing (Company) UST

Universal Servicing Tool

UT **Umbilical Tower**

> Unit Tester Universal Time

Uplink Text and Graphics System **UT&GS**

Coordinated Universal Time UTC

United Technology Center

Unit Test Cases

Universal Test Console

Universal Test Equipment UTE

Utility UTIL

Up Telemetry UTLM

Urine Transfer System UTS

Micromicron UU UUT Unit Under Test Microvolt UV

Ultraviolet

Under Voltage (U/V preferred)

Under Voltage Device UVD **Unmanned Vertical Flight** UVF

Microwatt UW

User Work Station UWS

V Valve

Velocity Verb Voice Volt Voltage

V P-P Volt Peak-to-Peak

V&DA Video and Data Acquisition

Video and Data (Processing) Assembly

V&V Validation and Verification

V-A Vibro-Acoustic

Volt-Ampere

V-BAND 46,000 to 56,000 MCS V-BAR Velocity Vectory Axis

V-CITE Vertical-Cargo Integration Test Equipment

V-RTIF Vandenberg Real Time Interface

V/A Video/Analog
V/C Vector Control
Velocity Counter
V/H Velocity-to-Height
V/M Velocity Meter

V/V Validation and Verification (also V&V)

Vent Valve

VA Velocity at Apogee

Vibro-Acoustic Test

Volt Ampere

VA/T/VTA Vibro-Acoustic/Thermal/Vacuum Test Article

VAA Vehicle Assembly Area

Viewpoint Adapter Assembly

VAB Vehicle Assembly Building

VAC Vacuum

Vehicle Assembly and Checkout

Volts, ac

VAD Vandenberg Addendum Document

VAFB Vandenberg Air Force Base

VAK Vertical Access Kit

Vertical Assembly Kit

VAL Valid

VALID Validation

VAN USNS Vanguard (STDN)

VAP Vapor

VAR Variable, Variance, Variation

Verification Analysis Report

Volt Ampere Reactive

VASI Visual Approach Slope Indicator VAST Versatile Avionics System Tester

VAT Vibro-Acoustic Test

VATA Vibro-Acoustic Test Article

VATF Vibration and Acoustic Test Facility

VC Vector Character

Velocity Counter

VCAP Vehicle Charging and Potential Experiment VCB Vertical Location of the Center of Buoyancy

VCC Verification Code Counter VCD **Verification Control Document**

VCD(S) Vapor Compression Distillation (Subsystem)

VCE Voice

VCG Vector Cardiogram

Vertical Location of the Center of Gravity

VCI Velocity Change Indicator Volatile Condensable Material VCM VCN **Verification Completion Notice**

VCO Voltage Controlled Oscillator (Oscillation)

VCP Vandenberg Contract Report VCS **Verification Control Sheet** Voice Command System

VCT Voltage Control Transfer

Vector **VCTR**

VCU Video Control Unit VDA Valve Driver Assembly Variable Data Area

VDC Volts, dc

Verification Description Document VDD

Version Description Document

VDI Vendor Documentation Inventory

Vertical Display Indicator

VDS Vehicle Dynamics Simulator

VDT Vehicle Data Table
VDU Visual Display Unit
VE Equivalent Velocity

Shuttle Engineering (KSC VBO Directorate)

VECIB Vehicle Engineering Change Implementation Board

VECO Vernier Engine Cutoff

VEDS Vehicle Emergency Detection System
VEEI Vehicle Electrical Engine Interface
VEFCO Vertical Functional Checkout

VEH Vehicle

VEH ID Vehicle Identification
VEI Vehicle End Item

VEL Velocity
VER Verify
VERIF Verification

VERLORT Very Long Range Tracking Radar

VERN Vernier
VERT Vertical
VF Vertical Flight
Video Frequency

VFE

Video Frequency

Vendor Furnished Equipment

Verification Flight Instrumentation

VFI Verification Flight Instrument
VFO Variable Frequency Oscillator

VFR Visual Flight Rules
VFT Verification Flight Test

VGIMU Velocity To Be Gained as Related to IMU Orientation

VGOR Vandenberg Ground Operations Requirement

Vehicle Ground Operation Requirements

VGP Vehicle Ground Point VGT Vehicle Ground Test

VGVT Vertical Ground Vibration Test
VGX Velocity To Be Gained (Body X-Axis)
VGY Velocity To Be Gained (Body Y-Axis)
VGZ Velocity To Be Gained (Body Z-Axis)

VHAA Very High Altitude Abort
VHF Very High Frequency

VHF/AM Very High Frequency Amplitude Modulator
VHF/DF Very High Frequency Direction Finder

VI Internal Velocity

VIA By Means of (By Way of)
VIB Vertical Integration Building

Vibrate, Vibration

VIC Visitors Information Center

VID Video

VIDD Vertical Interval Data Detector VIS Verification Information System

> Visibility Visual

VISC Viscosity

VITT Vehicle Integration Test Team

VIU Video Interface Unit VJ Vacuum Jacketed

VL Expendable Vehicles (KSC VO Dir.)
VLBI Very Long Baseline Interferometer

VLF Very Low Frequency

VLPS Vandenberg Launch Processing System

VLR Very Low Range

VLS Vandenberg Launch and Landing Site

VLV Value Valve

VM Virtual Memory

Voltmeter

VMF Vertical Maintenance Facility VMS Velocity Measuring System

VO Shuttle Operations (KSC Directorate)

Space Vehicle Operations (KSC Dir.)

Vehicle Operations Velocity Initial

Voice

VOIR Venus Orbiter Imaging Radar

VOL Volume VOM Voltohmmeter

VOMD VAFB Operations and Maintenance Documentation

VOR VHF Omnidirectional Radio Range

VOR-DME VHF Omni Range-UHF Distance Measuring Equipment

VORTAC VHF Omni Range Tactical Air Navigation

Variable Omni Range Tactical (VOR and TACAN)

VOT VHF Omni Test

VOX Voice Operated Transmitter (Transmission)

VΡ Shuttle Payloads (KSC VO Dir., see CO, CS, CV)

Vacuum Pump

Verification Polarization Vertical Polarization

Viewpoint

VPF Vertical Processing Facility **VPHD** Vertical Payload Handling Device

VPI Valve Position Indicator

VPK Volts Peak

VPM Vehicle Project Manager VR Variable Reluctance Velocity, Relative

Video Recorder Voltage Regulator Voltage Relay

VRB VHF Recovery Beacon

VRCS Vernier Reaction Control System

VREL Relative Velocity

VRF Vertical Removal Fixture **VRL** Vertical Recovery Line Vertical Reference Line **VRMS** Volts Root Mean Square

VRNR Vernier

VRR Verification Readiness Review

VS Staging Velocity

Versus ٧s

VSA Variable Stability Aircraft

Verification Site Approval

VSB Vestigial Side Band **VSD** Vertical Situation Display VSN Video Switching Network VSI Vertical Speed Indicator Video Simulation Interface

VSO Very Stable Oscillator

VSTAG Vandenberg Shuttle Turnaround Analysis Group

VSWR Visual Standing Wave Ratio

Voltage Standing Wave Ratio

VΤ STS Processing (KSC VO Dir.) VT Vent

VTF Vertical Test Flight
VTM Vibration Test Module
VTN Verification Test Network

VTP Vehicle Test Plan

Verification Test Plan Verification Test Program

VTR Verification Text Reports

Video Tape Recorder

VTS Vandenberg Tracking Station

Vertical Test Site
Vertical Test Stand
Vertical Test System

VTVM Vacuum Tube Voltmeter

VTX Vertex

VU Vehicle Unit

Vehicle Utility
Volume Unit

VV Vent Valve

Vertical Velocity

VVI Vertical Velocity Indicator
VX Velocity along the X-Axis
VY Velocity along the Y-Axis
VZ Velocity along the Z-Axis

W Watt

> West Wide Window

W&B Weight and Balance W&C Wire and Cable W-G Water-Glycol

W/ With

W/B Wideband W/E Wing Elevon W/G Water/Glycol W/h Watt-Hour W/O Without W/S Work Station W/T Wind Tunnel W/W Weather Wheel Well

Wrist Yaw

W/WMS Water/Waste Management System (Subsystem)

WA Wide Angle

Work Authorization

WAD Work Authorization Document

WAD/SO Work Authorization Document/Shop Order

Work Authorization Number WAN WAR Work Authorization Report

WARN Warning

WAT Web Action Time WB Waterboiler

> Wet Bulb Wide Band

WBC White Blood Cells

WBDI Wideband Data Interleaver

WBR Work Bench Rack

WBS Work Breakdown Structure **WBSC** Wide-Band Signal Conditioner

WBT Wide-Band Terminal WBTS Wide-Band Transmission System

WCCS Window Contamination Control Number

WCDB Work Control Data Base
WCL Water Coolant Line
Water Coolant Loop
WCP Wing Chord Plane

Waste Collection System
Work Control System

Writable Control Storage

WD Width

WCP WCS

WEA

Wired Discrete

Word Work Days Weather

WES Water Electrolysis System

WG Wave Guide

Wing

WGS Water Glycol Service Unit

WHL Wheel Whr Watt-Hour

WIB When Interrupt Block
WIF Water Immersion Facility

WINDS Weather Information Network Display System

WIP Work in Progress
WIX Wait for Index
WL Wavelength
WM Waste Management

WMC Waste Management Compartment

WMS Waste Management System

WND Wind

WO Work Order

WOC Work Order Control
WONG Weight on Nose Gear
WOW Weight on Wheels

Worst on Worst

WOWLON Weight on Wheels Lock on

WP Way Point

Work Package

WP Working Pressure

Wrist Pitch

WPAFB Wright Patterson Air Force Base

WPC Watts per Candle

WPD Work Package Description
WPF Work Process Flow
WPG Work Package Grouping
WPI Work Process Indicator
Work Progress Indicator

VALUE OF THE STATE OF THE STATE

WPM Words per Minute

WPMCP Work Package Manpower and Cost Plan

WPP Water Pump Package

Work Package Plan

WPPS Work Package Planning Sheet

WPS Words per Second

WR Wrist Roll WRG Wiring

WRL Wing Reference Line
WRO Work Release Order
WS Water Servicer

Wind Shield Work Statement

WSB Water Spray Boiler WSC Wide-Band Signal Cond

WSC Wide-Band Signal Conditioner
WSCC Work Station Control Center

WSD Wide-Band Data

WSGT White Sands Ground Terminal
WSMC Western Space and Missile Center
WSMR White Sands Missile Range
WSO Water Servicer Operator
WSTF White Sands Test Facility
WSU Water Servicing Unit

WSWR Variable Standing Wave Ratio (Rate)

WT Watchdog Timer

Weight Wire Ticket

WTA Wire Traceability and Accountability

WTR Water

WTR SYS Western Test Range WTR SYS Water System

WTSC Wet Tantalum Slug Capacitor

WTT Wind Tunnel Test
WUC Work Unit Code
WUCF Work Unit Code File

WUSCI Western Union Space Communications, Inc.

WW Water Waste

Wire Wrap

WWMS Waste Water Management System

WX Weather

Χ	Times (by, trans-)
X,	X-Axis of Spacelab
χ̈́	X-Axis of Orbiter
Χ̈́	X-Axis of Payload

X_P X_S X_T XCVR X-Axis of Solid Rocket Booster

X-Axis of External Tank

Transceiver **XDCR** Transducer **XDUCER** Transducer Crossfeed XFD **XFE**R Transfer Translation **XLTN** XMT Transmit Transmitter **XMTR**

Orbiter Structural Body Reference, X-Axis ΧO Payload Structural Body Reference, X-Axis XP

XPNDR Transponder

X-ray Polychromator XRP

XTAL Crystal

Horizontal Axis-Width of Vehicle Υ

> Lateral Acceleration **Out-of-Plane Position**

Y-Axis

Y-Axis, Horizontal-Width of Vehicle/Structure

Yaw

Υ Out-of-Plane Velocity Y-Axis Rate of Change Y-Axis of Spacelab Y-Axis of Orbiter Y-Axis of Payload

Y-Axis of Solid Rocket Booster

Y-Axis of External Tank

Yaw Trim yd Yard

ΥP **Yield Pointer**

Year yr

YS Yield Strength YSC Yearly Spares Cost **YST** Yearly Spares Cost

ΥT Station Identification Symbol ٧V Deputy for Space Launch Systems

YVC Directorate of Configuration and Information Management

YVCB Configuration/Data Management Division **YVGF** Financial Management Division (SD) Requirements and Analysis Division (SD) **YVGR** YVV Directorate of Launch Base Operations

YVV-1 Program Safety Office (SD) **YVVE Engineering Division** YVVI Inertial Upper Stage (SD)

YVVL Integrated Logistics Support Division (SD)

YVVO **Operations Division**

YVVS DOD Mission Support Division, JSC (SD)

Z	Impedance
	Normal Acceleration (Load Factor)
	Z-Axis Direction
	Z-Axis Rate of Change
	Zone
	Zulu (Greenwich Mean Time-GMT)
\mathbf{Z}_{L}	Z-Axis of Spacelab
z _o	Z-Axis of Orbiter
Z _o Z _p	Z-Axis of Payload
zs	Z-Axis of Solid Rocket Booster
Z _T	Z-Axis of External Tank
ZĊG	Impedance Cardiogram
ZGT	Zero Gravity Trainer
ZI	Zone of Interior (Continental USA)
ZLV	Z Local Vertical (Payload Bay toward Earth)
ZO	Station Identification Symbol, Orbiter X-Axis
ZOP	Zero Operational Ajont Code
ZPN	Impedance Cardiogram
	Impedance Pneumogram
ZrO ₂	Zirconium Oxide
ZSI	Z Solar Inertial (Payload Bay facing away from Sun)

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This is a collection of some of the acronyms now in everyday use in the Shuttle world. It is a combination of lists that have been prepared at the Kennedy and Johnson Space Centers and by the Air Force, places where intensive Shuttle activities are under way. In the nature of acronyms—which are compressed identifiers of systems or structures felt too long and cumbersome to be christened in the normal fashion—the list is neither comprehensive nor totally up to date. Let no one think this list has the status and sanction of a dictionary; it is intended as a guide or reference. It is not to be used in an official capacity. The transience of technical acronyms is best demonstrated by contrasting this list with the special lingo and jargon employed only a decade ago during the Apollo Program. A limited number of terms are the same, but the working groups speak in a different dialect. Perhaps the best way to think of this collection is as a phrase-book to help the users make their way in comprehending parts of a brand-new world.						
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