

ACRONYMS AND ABBREVIATIONS

ACI	Archaeological Consultants, Inc.
ac	alternating current
ACO	Assembly and Checkout Officer
ACTS	Advanced Communications Technology Satellite
AETB	Alumina-Enhanced Thermal Barrier
AFB	Air Force Base
AFP	Air Force Plant
AFRSI	Advanced Flexible Reusable Surface Insulation
AHMS	Advanced Health Management System
AIAA	American Institute of Aeronautics and Astronautics
Al-Li	Aluminum-Lithium
ALTA	Aluminum Lithium Test Article
ALT	Approach and Landing Tests
AMPAC	American Pacific
APU	Auxiliary Power Unit
ASC	American Satellite Company
ASNBR	Asbestos-filled Nitrile Butadiene Rubber
ASRC	American Synthetic Rubber Company
ASRM	Advanced Solid Rocket Motor
ASSET	Aerothermodynamic/Elastic Structural Systems Environmental Tests
ATLAS	Atmospheric Laboratory for Applications and Science
BI	Booster Integration
BRI	Boeing Rigid Insulation
BFS	Backup Flight System
BSM	Booster Separation Motor
CAIB	<i>Columbia</i> Accident Investigation Board
CAPCOM	Spacecraft Communicator
CCAFS	Cape Canaveral Air Force Station
CCTV	Closed Circuit Television
CEI	Contract End Item Specification
CFC	Chlorofluorocarbon
COLBERT	Combined Operational Load Bearing External Resistance Treadmill
CRISTA	Cryogenic Infrared Spectrometer and Telescope
CRT	Cathode Ray Tube
CWS	Caution and Warning System
dc	direct current
DDT&E	Design, Development, Test and Evaluation
DFI	Developmental Flight Instrumentation
DFRC	Dryden Flight Research Center
DM	Development Motors

DMP	Down Mission Processing
DoD	Department of Defense
DPS	Data Processing System
ECLSS	Environmental Control and Life Support System
ECO	Engine Cutoff
EDO	Extended Duration Orbiter
EDT	Eastern Daylight Time
EECOM	Emergency, Environment, and Consumables Operations Manager
EGIL	Electrical Generation and Illumination Engineer
E&I	Electrical and Instrumentation
EM	Engineering Motor
EMU	Extravehicular Mobility Unit
EPA	Environmental Protection Agency
EPS	Electrical Power System
ESA	European Space Agency
ET	External Tank
ETCA	ET Intertank Carrier Plate Assembly
ETM	Engineering Test Motor
EURECA	European Retrievable Carrier
EVA	Extravehicular Activity
FAO	Flight Activities Officer
FDO	Flight Dynamics Officer
FIB	Fibrous (or Flexible) Insulation Blanket
FOD	Foreign Object Debris
FMOF	First Manned Orbital Flight
FM	Frequency Modulation
FPL	Full Power Level
FRCI	Flexible Refractory Composite Insulation
FRCS	Forward Reaction Control System
FRSI	Felt Reusable Surface Insulation
FSM	Flight Support Motor
FVM	Flight Verification Motor
FWC	Filament Wound Case
FY	Fiscal Year
g	gravity
GAO	General Accounting Office
GC	Ground Controller
GEI	Ground Environmental Instrumentation
GH ₂	Gaseous Hydrogen
GHe	Gaseous Helium
GN ₂	Gaseous Nitrogen
GNC	Guidance, Navigation, and Control

GO2	Gaseous Oxygen
GPC	General Purpose Computer
gpm	gallons per minute
GPS	Global Positioning System
GSE	Ground Support Equipment
GSTDN	Ground Space Flight Tracking and Data Network
GUCA	Ground Umbilical Carrier Assembly
GVT	Ground Vibration Tests
GVTA	Ground Vibration Test Article
H2	Hydrogen
HAL/S	High-order Assembly Language/Shuttle
HCFC	Hydrochlorofluorocarbon
HPM	High Performance Motor
HPU	Hydraulic Power Units
HRSI	High-temperature Reusable Surface Insulation
HSL	Hardware Simulation Laboratory
HST	Hubble Space Telescope
ICD	Interface Control Document
IEA	Integrated Electronic Assembly
IHA	InoMedic Health Applications (previously, Innovative Health Applications)
ILRV	Integral Launch and Reentry Vehicle
INCO	Instrumentation and Communications Officer
ISS	International Space Station
ISTB	Integrated Subsystem Test Bed
JSC	Johnson Space Center
KSC	Kennedy Space Center
KW	Kilowatt
LC	Launch Complex
LDEF	Long Duration Exposure Facility
LH2	Liquid Hydrogen
LITE	Lidar in Space Technology Experiment
LO2	Liquid Oxygen
LON	Launch on Need
LPS	Launch Processing System
LRSI	Low-Temperature Reusable Surface Insulation
LRU	Line Replacement Unit
LWT	Lightweight Tank
MA	Molded Ablators
MAF	Michoud Assembly Facility
MCC	Marshall Convergent Coating
MDD	Mate Demate Device
MDM	Multiplexer/Demultiplexer

MECO	Main Engine Cutoff
MEDS	Multifunction Electronic Display Subsystem
MET	Mission Elapsed Time
MLP	Mobile Launcher Platform
MMACS	Maintenance, Mechanical, Arm and Crew Systems Officer
MMH	Monomethylhydrazine
MOD	Mission Operations Directorate
MOL	Manned Orbiting Laboratory
mph	miles per hour
MPLM	Multi-Purpose Logistics Module
MPS	Main Propulsion System
MPT	Main Propulsion Test
MPTA	Main Propulsion Test Article
MPTA-ET	Main Propulsion Test Article External Tank
MRM	Mini-Research Module
MSBLS	Microwave Scanning Beam Landing System
MSC	Manned Spacecraft Center
MSFC	Marshall Space Flight Center
MTF	Mississippi Test Facility
MVGVT	Mated Vertical Ground Vibration Tests
N ₂ O ₄	Nitrogen Tetroxide
NASA	National Aeronautics and Space Administration
NASM	National Air and Space Museum
NCFI	North Carolina Foam Insulation
NDE	Non-Destructive Evaluation
NPL	Nominal Power Level
NRHP	National Register of Historic Places
NSTL	National Space Technology Laboratories
O ₂	Oxygen
OAST	Office of Application and Space Technology
OBSS	Orbiter Boom Sensor System
ODS	Orbiter Docking System
OFT	Orbital Flight Test
OLF	Orbiter Lifting Frame
OMB	Office of Management and Budget
OMDP	Orbiter Maintenance Down Period
OMM	Orbiter Major Modification
OMS	Orbital Maneuvering System
OMSF	Office of Manned Space Flight
OPF	Orbiter Processing Facility
OV	Orbiter Vehicle
PAL	Protuberance Air Load

PAM-D	Payload Assist Module-Delta
PAO	Public Affairs Officer
PASS	Primary Avionics Software System
PBAN	Polybutadiene-Acrylic Acid-Acrylonitrile Terpolymer
PCS	Pressure Control System
PDL	Product Development Laboratory
PDRS	Payload Deployment and Retrieval Systems
PFC	Preliminary Flight Certification
PM	Phase Modulation
PMA	Pressurized Mating Adapters
POFI	Pour-On Foam Insulation
PRF	Parachute Refurbishment Facility
PRIME	Precision Recovery Including Maneuvering Entry
PRM	Production Rate Motor
PROP	Propulsion Officer
psi	pounds per square inch
psia	pounds per square inch, absolute
psig	pounds per square inch, gauge
PVM	Production Verification Motor
QM	Qualifications Motor
R	Rankine
RCC	Reinforced Carbon-Carbon
RCS	Reaction Control System
RFP	Request For Proposal
RGA	Rate Gyro Assembly
RMS	Remote Manipulator System
RPSF	Rotation Processing and Surge Facility
RSI	Reusable Surface Insulation
RSME	Replica Shuttle Main Engines
RSS	Range Safety System
RPL	Rated Power Level
rpm	revolutions per minute
RSRM	Reusable Solid Rocket Motor; Redesigned SRM
RTF	Return to Flight
RTV	Room-Temperature Vulcanizing
S&A	Safe and Arm
SAIL	Shuttle Avionics Integration Laboratory
SCA	Shuttle Aircraft Carrier
SEADS	Shuttle Entry Air Data System
SERV	Single-stage Earth-Orbital Reusable Vehicle
SFOC	Space Flight Operations Contract
SILTS	Shuttle Infrared Leeside Temperature Sensing

SIP	Strain Isolator Pad
SLA	Super Light Ablator
SLC	Space Launch Complex
SLF	Shuttle Landing Facility
SLWT	Super Lightweight Tank
SM	Servicing Mission
SOFI	Spray-On Foam Insulation
SOFIA	Stratospheric Observatory for Infrared Astronomy
SOW	Scope of Work
SPARTAN	Shuttle Pointed Autonomous Research Tool for Astronomy
SPAS	Shuttle Pallet Satellite
SPOC	Space Program Operations Contract
SRB	Solid Rocket Booster
SRB ARF	Solid Rocket Booster Assembly and Refurbishment Facility
SRM	Solid Rocket Motor
SSC	Stennis Space Center
SSFL	Santa Susana Field Laboratory
SSME	Space Shuttle Main Engine
SSMEPF	Shuttle Main Engine Processing Facility
SSP	Space Shuttle Program
SSPTS	Station to Station Power Transfer System
SSTG	Space Shuttle Task Group
STA	Structural Test Article
STAR	Space Transport and Recovery
START	Spacecraft Technology and Advanced Reentry Tests
STDN	Space Flight Tracking and Data Network
STG	Space Task Group
STS	Space Transportation System
SUMS	Shuttle Upper Atmospheric Mass Spectrometer
SWAR	Salt Water Activated Release
SWT	Standard Weight Tank
SYNCOM	Synchronous Communications Satellite
T&R	Transition and Retirement
TACAN	Tactical Air Navigation
TDRS	Tracking and Data Relay Satellite
TDRSS	Tracking and Data Relay Satellite System
TEM	Technical Evaluation Motors
TPS	Thermal Protection System
TPSF	Thermal Protection System Facility
TUFI	Toughened Uni-piece Fibrous Insulation
TVC	Thrust Vector Control
UHF	Ultra-High Frequency
U.S.	United States

USA	United Space Alliance
USBI	United Space Boosters, Inc.
VAB	Vehicle Assembly Building
VLS	Vandenberg Launch Site
WLE	Wing Leading Edge