



Land Launch

User's Guide

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Abbreviations and Acronyms

A	ampere(s)
A ₀	azimuth
A/C	air conditioning
ASTM	American Society for Testing and Manufacture
ATB	Assembly & Test Building
AU	ascent unit
B	Baikonur
BER	bit error rate
BLS	Boeing Launch Services
BPS	bits per second
C	Celsius or Centigrade
C ₃	velocity squared at infinity
CA	California
CC	command center
CCAM	contamination and collision avoidance maneuver
CCTV	closed circuit television
CDR	critical design review
CG	center-of-gravity
CIS	Commonwealth of Independent States
CLA	coupled loads analysis
CM	centimeter(s)
CVCM	collected volatile condensable material
DB	decibel(s)
DC	direct current
DP	dew point
EGSE	electrical ground support equipment
EMC	electromagnetic compatibility
ESD	electro-static discharge
F	Fahrenheit
FM	frequency modulation
FMH	free molecular heating
FSA	Federal Space Agency
FT	foot/feet
G	gravity
GEO	geosynchronous or geostationary Earth orbit

Abbreviations and Acronyms

GOWG	ground operations working group
GTO	geosynchronous transfer orbit
GSE	ground support equipment
H; HR	hour
HEO	high Earth orbit
HPF	hazardous processing facility
HZ	hertz
I	inclination moment of inertia
ICAO	International Civil Aviation Organization
ICD	interface control document
I/F	interface
ILV	integrated launch vehicle
IRD	interface requirements document
ISS	International Space Station
K	thousand(s)
KBTM	Design Bureau of Transport Machinery
KG	kilogram(s)
KGF	Kilogram(s) force
KM	kilometer(s)
KN	kilonewton(s)
KVA	kilo volt-ampere(s)
KW	kilowatt(s)
LB(S)	pound(s)
LBF	pound(s) force
LEO	low Earth orbit
LC	launch complex
LLC	limited liability company
LOX	liquid oxygen
LRR	launch readiness review
LSA	launch services agreement
LV	launch vehicle
M	meter(s)
MS	millisecond(s)
ME	main engine
MEO	medium Earth orbit
MHZ	megahertz

Abbreviations and Acronyms

MM	millimeter(s)
N/A	not applicable
PA	pascal(s)
PCM	pulse control modulation
PDR	preliminary design review
PLF	payload fairing
PLU	payload unit
PPF	payload processing facility
PPM	parts per million
PSI	pounds per square inch
PSM	payload systems mass
PSS	payload support structure
R&D	research and development
RF	radio frequency
RH	relative humidity
S	second(s)
S/C; SC	spacecraft
SCA	spacecraft adapter
SCAPE	self-contained atmospheric protection ensemble
SIS	Space International Services, Ltd
SOW	statement of work
SPST	solid propellant separation thrusters
SRS	shock response spectra
T	Time
	tonne(s)
TBD	to be determined
TBR	to be revised or reviewed
TM	telemetry
TML	total mass loss
TRR	transfer readiness review
TsENKI	Center for Ground Space Infrastructure Operations
UPS	uninterruptible power supply
USA	United States of America
USSR	Union of Soviet Socialist Republics
V	volt(s)
	velocity
VAC	volt(s) of alternating current

Abbreviations and Acronyms

W	watt(s)
°	degrees
σ	sigma (one standard deviation)
μ	micro (10^{-6})