



LTG*

LJR[§]

* LWA[†] TLA^{**} Glossary
§ Lee J Rickard

† Long Wavelength Array
** Three[‡] Letter Acronym

‡ Sometimes Two or Four

ABE	Alternative Back Ends
AFRL	Air Force Research Laboratory
AK	Akela – possible station site
AM	Alegres Mountain – possible station site
ANT	Antenna
ARR	‘Array’ – the individual station array, including STD, ANT, FEE, GND and RPD; also refers to the configuration of antennas within a station
ARX	Analog Receiver
ASP	Analog Signal Processing – including ARX
ATSC	Advanced Television Systems Committee – standard for digital TV
BF	Beamforming
BFU	Beamforming Unit
BIRS	Bruny Island Radio Spectrometer
BLM	Bureau of Land Management
BOM	Bill of Materials
BW	Bandwidth
CA	Canoncito – possible station site
CDR	Critical Design Review
CIC	Cascaded Integrator-Comb – a combination of FIR filter and decimator
CME	Coronal Mass Ejection
COTS	Commercial Off the Shelf
CR	Cosmic Ray
CU	Cuchillo – possible station site
DA	Dark Ages – the period before the epoch of reionization

DA	Datil – possible station site
DAC	Data Aggregation & Communication
DIG	Digitizer – often referred to as the A/D (analog to digital converter)
DM	Dispersion Measure
DP	Digital Processor
DP1	Digital Processor: First Segment – including DIG, BFU, TBW, TBN
DP2	Digital Processor: Second Segment – including DRX
DR	Data Recorders
DR	Dynamical Range
DRX	Digital Receiver
DU	Dusty – possible station site
EA	East Arm (of VLA) – possible station site
EC	Executive Committee
ECS	Environmental Control System
EL	Elk – possible station site
EMC	Electromagnetic Compatibility
EMD	Electromechanical Design
EMI	Electromagnetic Interference
EN	Engle – possible station site
EOR	Epoch of reionization
ETA	Eight-meter-wavelength Transient Array
EVLA	Expanded VLA
EW	Edgewood – possible station site
F&A	Facilities and Administration Cost (Indirect Cost)
FEE	Front End Electronics – often referred to as the balun
FFT	Fast Fourier Transform
FIFO	First In – First Out

FIR	Finite Impulse Response – a type of digital filter
FOV	Field of View
FPGA	Field-Programmable Gate Array
FWHM	Full Width at Half Maximum
GAIM	Global Assimilating Ionosphere Model
GASE	GRB All-Sky Spectrometer Experiment
GBT	Green Bank Telescope
GC	Galactic Center
GG	Greens Gap – possible station site
GMRT	Giant Metrewave Radio Telescope
GND	Ground Screen
GND	Galactic Noise Dominance
GNI	Gain/Noise Figure/Intercept – the three receiver parameters that one tries to optimize simultaneously
GP	Giant Pulse
GPS	Global Positioning System
GR	Grants – possible station site
GRB	Gamma-Ray Burst
HBT	Heterojunction Bipolar Transistor
HDPE	High Density Polyethylene
HE	Hermanas – possible station site
HF	High Frequency – 3 MHz to 30 MHz
HM	Horse Mountain – station site
HS	Horse Springs – possible station site
HVAC	Heating, Ventilating, and Air Conditioning
ICD	Interface Control Document
ION	Ionosphere – in WBS, refers to ionospheric calibration
IP3	Third Order Intercept – a receiver characteristic
ISM	Interstellar Medium

JPL	Jet Propulsion Laboratory
LANL	Los Alamos National Laboratory
LAS	Largest Angular Size
LED	Light Emitting Diode
LHC	Left Hand Circular (Polarization)
LLR	Long-Lead Procurement Review
LOFAR	Low Frequency Array
LWA	Long Wavelength Array
LWA- <i>n</i>	LWA station <i>n</i>
LWDA	Long Wavelength Demonstration Array
LWIA	Long Wavelength Intermediate Array
MA	Magdalena – possible station site
MCS	Monitoring & Control System
MMIC	Monolithic Microwave Integrated Circuit
MRO	Magdalena Ridge Observatory
MV	Mangas Valley – possible station site
MWA	Murchison Widefield Array
MWG	Management Working Group
NEC	Numerical Electromagnetics Code
NM	Possible station site along NM 113
NRAO	National Radio Astronomy Observatory
NRL	Naval Research Laboratory
NTSC	National Television Systems Committee – standard for analog TV
PAPER	Precision Array to Probe Epoch of Reionization
PCB	Printed Circuit Board
PCD	Power Conditioning & Distribution
PDR	Preliminary Design Review
PoP	Pile of Parts – the cost model for building a station

PSR	Pulsar
PT	Pie Town – possible station site
PVC	Polyvinyl Chloride
QM	Quemado – possible station site
RAM	Random Access Memory
RFI	Radio Frequency Interference
RHC	Right Hand Circular (Polarization)
RMS	Root Mean Square
RN	Rincon – possible station site
RPD	RF and Power Distribution – the cable network connecting the antennas to the shelter
RRL	Radio Recombination Line
RS	Rock Springs – possible station site
SA	San Antonio – possible station site
SEP	Signal Entry Panel
SHL	Shelter
SIT	Site Infrastructure
SKA	Square Kilometer Array
SL	Sugarloaf Mountain – possible station site
SLC	Station Level Calibration
SM	Spurgeon Mesa – possible station site
SMA	SubMiniature version A – a type of coaxial RF connector
SMD	Surface Mounted Device – typically referring to a gas discharge tube
SN	Supernova
SNR	Supernova Remnant
SRR	System Requirements Review
ST	Santa Teresa – possible station site
STD	Stand – Includes ANT, FEE, GND

SV	Sevilleta – possible station site
TAC	Technical Advisory Group
TBN	Transient Buffer: Narrowband
TBW	Transient Buffer: Wideband
TCD	Timebase & Clock Distribution
TEC	Total Electron Content
TECU	Total Electron Content Unit – 10^{17} m^{-2}
TM	Tres Montosas – possible station site
TO	Torrance – possible station site
TP	Twin Peaks – possible station site
TU	Tularosa – possible station site
VHF	Very High Frequency – 30 MHz to 300 MHz
VL	LWA-1 site (formerly LWDA site)
VLA	Very Large Array
VLSS	VLA Low-frequency Sky Survey
VS	VLA-South – possible station site
VSWR	Voltage Standing Wave Ratio
VT	Virginia Tech
WA	West Arm (of VLA) – possible station site
WBS	Work Breakdown Structure
WC	Water Canyon – possible station site
WN	Winston – possible station site
WU	West US60 – possible station site