

Acronyms and Abbreviations

AF	– audio frequency	GEO	– geostationary orbit
AIAA	– American Institute of Aeronautics and Astronautics	HEAO-C	– High Energy Astronomical Observatory-C
ANSI	– American National Standards Institute	HEL	– high-energy laser
A-sat	– antisatellite	HEW	– Department of Health, Education and Welfare
Aramco	– Arabian-American Oil Co.	HF	– high frequency
BBB	– blood brain barrier	HFAL	– high frequency auditory limit
BRH	– Bureau of Radiological Health	HLLV	– heavy-lift launch vehicle
Btu	– British thermal unit	HRP	– horseradish peroxidase
bui	– brain uptake index	HVTL	– high-voltage” transmission line
CB	– citizens’ band	Hz	– hertz: a unit of frequency equal to one cycle per second
CEP	– Citizen’s Energy Project	HZE	– high-atomic-number, high-energy particles
CMEA	– Council of Mutual Economic Assistance (Comecon) (East Europe, Soviet Union, Cuba)	IAF	– International Astronautical Federation
CNS	– central nervous system	ICBM	– intercontinental ballistic missile
CONAES	– Committee on Nuclear and Alternative Energy Sources (National Academy of Sciences)	IEA	– International Energy Agency
COPUOS	– Committee on Peaceful Uses of Outer Space (United Nations)	IEEE	– Institute of Electrical and Electronics Engineers
COTV	– cargo orbital transfer vehicle	ISM	– industrial, scientific, and medical
Comsat	– Communications Satellite Corp.	ITU	– International Telecommunication Union
cpm	– counts per minute	kg	– kilogram
CW	– continuous wave	km	– kilometer
dB	– decibels	kw	– kilowatt (10 ³ watts)
dc	– direct current	laser	– light amplification by stimulated emission of radiation
DOD	– Department of Defense	LEO	– low-Earth orbit
DOE	– Department of Energy	LMFBR	– liquid metal fast breeder reactor
DMSO	– dimethyl sulfoxide	LORAN	– long-range navigation
EDL	– electric discharge laser	MHz	– Megahertz (10 ⁶ cycles per second)
EEG	– electroencephalogram m	MPTS	– microwave power transmission system
EKG	– electrocardiogram	MW	– megawatt (10 ⁶ watts)
ELDO	– European Space Vehicle Launcher Development Organization	mW/cm ²	– milliwatts per square centimeter
ELF	– extremely low frequency	NAS	– National Academy of Sciences
EMF	– electromagnetic fields	NASA	– National Aeronautics and Space Administration
EMP	– electromagnetic pulse	NATO	– North Atlantic Treaty Organization
EMR	– electromagnetic radiation	NBS	– National Bureau of Standards
EOTV	– electric orbital transfer vehicle	NIEMR	– nonionizing electromagnetic radiation
EPA	– Environmental Protection Agency	NIOSH	– National Institute of Occupational Safety and Health
ER	– evoked response	NRDC	– Natural Resources Defense Council
ESA	– European Space Agency	OECD	– Organization for Economic Cooperation and Development (United States, Canada, Japan, West Europe)
ESRO	– European Space Research Organization	OMEGA	– generic name for long-range navigation
FCC	– Federal Communications Commission	OPEC	– Organization of Petroleum Exporting Countries
FDA	– Food and Drug Administration		
FEL	– free electron laser		
CDL	– gas discharge laser		
GNP	– Gross National Product		
GHz	– gigahertz (10 ⁹ cycles per second)		
Gw	– gigawatt (10 ⁹ watts)		

OSHA	– Occupational Safety and Health Administration	SAM	– surface to air missile
OTA	– Office of Technology Assessment	SAR	– specific absorption rate
PLV	– personnel launch vehicle	SEPS	– solar electric propulsion system
POTV	– personnel orbital transfer vehicle	SPS	– solar power satellite
prf	– pulse repetition frequencies	SRBC	– sheep red blood cells
Q	– Quad (quadrillion BTUS)	SSTO	– single stage to orbit space vehicle
Qe	– Quad, electric	STS	– space transportation system
R&D	– research and development	t	– metric ton (tonne); 1,000 kg
rem	– Roentgen equivalent man, the quantity of ionizing radiation whose biological effect is equal to that produced by one roentgen of X-rays	TVA	– Tennessee Valley Authority
RFP	– radiofrequency radiation	UHF	– ultra high frequency
		VER	– visually evoked electrocortical response
		VHF	– very high frequency
		WHO	– World Health Organization