

Abbreviations & Acronyms

A

AAPM	American Association of Physicists in Medicine
ALARA	as low as reasonably achievable
ALL	acute lymphocytic leukemia
AM	amplitude modulation
AMA	American Medical Association
AML	acute myelogenous leukemia
ANLL	acute nonlymphocytic leukemia
ANS	American Nuclear Society
ANSI	American National Standards Institute

B

BCC	basal-cell carcinoma
BEIR	biological effects of ionizing radiation

C

CDC	Center for Disease Control and Prevention
CEDE	committed effective dose equivalent
CENELEC	European Committee for Electrotechnical Standardization
CML	chronic myelogenous leukemia
CRCPD	Conference of Radiation Control Program Directors, Inc.
CW	continuous wave

D

DDREF	dose and dose-rate effectiveness factor, based upon the fact that different doses and dose rates of ionizing radiation can have different degrees of bioeffectiveness
DHS	US Department of Homeland Security
DNA	deoxyribonucleic acid; the type of nucleic acid containing deoxyribose as the sugar component and found principally in the nuclei (chromatin, chromosomes) and mitochondria of animal and plant cells, usually loosely bound to protein
DOE	US Department of Energy
DREF	dose-rate effectiveness factor, based upon the fact that different dose rates of ionizing radiation can have different degrees of bioeffectiveness
DTRA	Defense Threat Reduction Agency

E

EEG	electroencephalogram
ELF	extremely low frequency
EMS	emergency medical services
EPA	US Environmental Protection Agency

F

FEMA	Federal Emergency Management Agency
FM	frequency modulation

G

GSM	global system for mobile communications
GI	gastrointestinal

H

HPS Health Physics Society

I

IAEA International Atomic Energy Agency
ICNIRP International Commission on Non-Ionizing Radiation Protection
ICRP International Commission on Radiological Protection
ICRU International Commission on Radiation Units and Measurements
IND improvised (or otherwise acquired) nuclear device
IEEE Institute of Electrical and Electronics Engineers
IND improvised nuclear device

J

K

L

LET linear-energy transfer; the energy lost per unit length of track of a primary ionizing particle
LLD lower limit of detection

M

MML mouse myelogenous leukemia
mrem millirem
mSv millisievert

N

NAS National Academy of Sciences
NASA National Aeronautics and Space Administration
NCRP National Council on Radiation Protection and Measurements
NIST National Institute of Standards and Technology
NRC US Nuclear Regulatory Agency

O

P

PCS personal communication system
pps pulses per second
PW pulsed wave

Q

R

RBE relative biological effectiveness of a particular treatment to some other treatment
RDD radiological dispersal device
RED radiation exposure device
REM rapid eye movement (a phase of sleep)
RF radiofrequency
RRS Radiation Research Society
RSNA Radiological Society of North America

S

SAR	specific absorption rate
SCC	squamous-cell carcinoma or small-cell cancer
SCLC	small-cell lung carcinoma
SI	International System of Units
SRA	Society for Risk Analysis

T

TEDE	total effective dose equivalent
TLD	thermoluminescent dosimeter
TVD	tenth-value distance
TVL	tenth-value layer

U

UNSCEAR	United Nations Scientific Committee on the Effects of Atomic Radiation
UV	ultraviolet

V

W

WHO	World Health Organization
WL	working level
WLM	working level month (170 h)

XYZ

Z	atomic number
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