

## NOTATION

The following is a list of acronyms and abbreviations, chemical names, and units of measure used in this document. Some acronyms used only in tables may be defined only in those tables.

### GENERAL ACRONYMS AND ABBREVIATIONS

ac	alternating current
ACEC	Area of Critical Environmental Concern
ACGIH	American Conference of Governmental Hygienists
AGFD	Arizona Game and Fish Department
APLIC	Avian Power Line Interaction Committee
ARS	<i>Arizona Revised Statutes</i>
ASM	American Society of Mammalogists
AusWEA	Australian Wind Energy Association
AWEA	American Wind Energy Association
BEPA	Bald and Golden Eagle Protection Act of 1940
BLM	Bureau of Land Management
BLMCA	Bureau of Land Management, California State Office
BLMCO	Bureau of Land Management, Colorado State Office
BLMID	Bureau of Land Management, Idaho State Office
BLMNV	Bureau of Land Management, Nevada State Office
BLMUT	Bureau of Land Management, Utah State Office
BLMWY	Bureau of Land Management, Wyoming State Office
BLS	U.S. Bureau of Labor Statistics
BMP	best management practice
BOR	U.S. Bureau of Reclamation
BPA	Bonneville Power Administration
BWEA	British Wind Energy Association
CAA	Clean Air Act
CDCA	California Desert Conservation Area
CDFG	California Department of Fish and Game
CDW	Colorado Division of Wildlife
CEC	Commission for Environmental Cooperation
CEQ	Council on Environmental Quality
CFR	<i>Code of Federal Regulations</i>
CNHP	Colorado Natural Heritage Program
CRADA	Cooperative Research and Development Agreement
CRMP	cultural resources management plan
CRS	Center for Resource Solutions

## NOTATION (Cont.)

CWA	Clean Water Act
CX	Categorical Exclusion
dc	direct current
DNL	day-night average sound level
DoD	U.S. Department of Defense
DOE	U.S. Department of Energy
DOI	U.S. Department of the Interior
DOL	U.S. Department of Labor
DOT	U.S. Department of Transportation
DTI	Department of Trade and Industry
DWIA	Danish Wind Industry Manufacturers Association
EA	environmental assessment
EECA	Energy Efficiency and Conservation Authority
EERE	Office of Energy Efficiency and Renewable Energy
EFSEC	Energy Facility Site Evaluation Council
EIA	Energy Information Administration
EIS	environmental impact statement
ELCC	effective load-carrying capability
ELF	extremely low-frequency
EMF	electric and magnetic fields
EMI	electromagnetic interference
E.O.	Executive Order
EPA	U.S. Environmental Protection Agency
EPRI	Electric Power Research Institute
ESA	Endangered Species Act of 1973
ESRI	Environmental Systems Research Institute, Inc.
EWEA	European Wind Energy Association
FAA	Federal Aviation Administration
FERC	Federal Energy Regulatory Commission
FLPMA	Federal Land Policy and Management Act of 1976
FR	<i>Federal Register</i>
FY	fiscal year
GE	General Electric
GIS	geographic information system
GSP	gross state product
HAP	hazardous air pollutant
HAWT	horizontal axis wind turbine
HMMH	Harris Miller Miller & Hanson, Inc.

## NOTATION (Cont.)

IEC	International Electrotechnical Commission
IFG	Idaho Fish and Game
IM	Instruction Memorandum
IREC	Interstate Renewable Energy Council
ISDA	Idaho State Department of Agriculture
L <sub>dn</sub>	day-night average sound level
L <sub>eq</sub>	equivalent sound pressure level
MBTA	Migratory Bird Treaty Act of 1918
MFP	Management Framework Plan
MNHP	Montana Natural Heritage Program
MOA	military operations area
MPDS	maximum potential development scenario
MTR	military training route
NAAQS	National Ambient Air Quality Standards
NAGP	North American Grouse Partnership
NCA	National Conservation Area
NDOW	Nevada Department of Wildlife
NEI	Nuclear Energy Institute
NEPA	National Environmental Policy Act of 1969
NEPDG	National Energy Policy Development Group
NERC	North American Electric Reliability Council
NHPA	National Historic Preservation Act
NIEHS	National Institute of Environmental Health Sciences
NLCS	National Landscape Conservation System
NMDGF	New Mexico Department of Game and Fish
NMFS	National Marine Fisheries Service
NMNHP	New Mexico Natural Heritage Program
NMRPTC	New Mexico Rare Plant Technical Council
NNHP	Nevada Natural Heritage Program
NOA	Notice of Availability
NOI	Notice of Intent
NOS	National Ocean Service
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NRC	U.S. Nuclear Regulatory Commission
NREL	National Renewable Energy Laboratory
NRHP	<i>National Register of Historic Places</i>
NSC	National Safety Council
NWCC	National Wind Coordinating Committee

## NOTATION (Cont.)

O&M	operation and maintenance
OHV	off-highway vehicle
ONHP	Oregon Natural Heritage Program
OSHA	Occupational Safety and Health Administration
PA	Programmatic Agreement
PCB	polychlorinated biphenyl
PEIS	programmatic environmental impact statement
PERI	Princeton Energy Resources International
P.L.	Public Law
PM	particulate matter
PM <sub>2.5</sub>	particulate matter with a mean aerodynamic diameter of 2.5 µm or less
PM <sub>10</sub>	particulate matter with a mean aerodynamic diameter of 10 µm or less
POD	Plan of Development
PTC	Production Tax Credit
R&D	research and development
RCRA	Resource Conservation and Recovery Act of 1976
RMP	Resource Management Plan
RMRCC	Rocky Mountain Regional Coordinating Committee
ROD	Record of Decision
ROI	return on investment
ROS	Recreation Opportunity Spectrum
ROW	right-of-way
RPS	renewable portfolio standard
RSA	rotor-swept area
SCADA	supervisory control and data acquisition
SDWA	Safe Drinking Water Act of 1974
SHPO	State Historic Preservation Office(r)
SIAP	Smithsonian Institution Affiliations Program
SIP	State Implementation Plan
SMP	suggested management practice
TIO	technology improvement opportunity
TLV	threshold limit value
TSCA	Toxic Substances Control Act of 1976
TVA	Tennessee Valley Authority
UDWR	Utah Division of Wildlife Resources
USACE	U.S. Army Corps of Engineers
USC	<i>United States Code</i>
USDA	U.S. Department of Agriculture

## NOTATION (Cont.)

USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
VAWT	vertical axis wind turbine
VOC	volatile organic compound
VRM	Visual Resource Management
WDFW	Washington Department of Fish and Wildlife
WDNR	Washington Department of Natural Resources
WECC	Western Electricity Coordinating Council
WGFD	Wyoming Game and Fish Department
WindPACT	Wind Partnerships for Advanced Component Technologies
WinDS	Wind Deployment System
WRA	wind resource area
WTGS	wind turbine generator system
WYNDD	Wyoming Natural Diversity Database

## CHEMICALS

CO	carbon monoxide	O <sub>3</sub>	ozone
CO <sub>2</sub>	carbon dioxide	Pb	lead
NO <sub>2</sub>	nitrogen dioxide	SO <sub>2</sub>	sulfur dioxide
NO <sub>x</sub>	nitrogen oxides		

## UNITS OF MEASURE

ac-ft	acre foot (feet)	gal	gallon(s)
		GW	gigawatt(s)
°C	degree(s) Celsius		
cm	centimeter(s)	h	hour(s)
		ha	hectare(s)
dB	decibel(s)	Hz	hertz
dB(A)	A-weighted decibel(s)		
		in.	inch(es)
°F	degree(s) Fahrenheit		
ft	foot (feet)	kg	kilogram(s)
		kHz	kilohertz
		km	kilometer(s)
ft <sup>2</sup>	square foot (feet)	km <sup>2</sup>	square kilometer(s)
		kV	kilovolt(s)

kW	kilowatt(s)	rpm	rotation(s) per minute
kWh	kilowatt-hour(s)	s	second(s)
L	liter(s)	t	metric ton(s)
lb	pound(s)	TWh	trillion watt-hours
m	meter(s)	W	watt(s)
m <sup>2</sup>	square meter(s)	yd <sup>3</sup>	cubic yard(s)
m <sup>3</sup>	cubic meter(s)	μg	microgram(s)
mi	mile(s)	μm	micrometer(s)
mi <sup>2</sup>	square mile(s)		
mpg	mile(s) per gallon		
mph	mile(s) per hour		
MW	megawatt(s)		
Pa	pascal(s)		
ppm	part(s) per million		
psi	pound(s) per square inch		