

LIST OF ACRONYMS AND ABBREVIATIONS

\$/kW	dollar per kilowatt
°C	degree Celsius
°F	degree Fahrenheit
µg/L	microgram per liter
µg/m²/yr	microgram per square meter per year
µg/m ³	microgram per cubic meter
µm/minute	micrometer per minute
µmhos/cm	micromhos per centimeter
10 ⁶ gal/yr	million gallons per year
10 ⁻⁶ lb/MWh	0.000001 pound per megawatt-hour
10 ⁶ scf/yr	million standard cubic feet per year
7Q10	7-day, consecutive low-flow with a 10-year return frequency
AABE	American Association of Blacks in Energy
AADT	annual average daily traffic
ac-ft	acre-foot
ADEM	Alabama Department of Environmental Management
AEGL	acute exposure guideline level
AERMOD	American Meteorological Society (AMS)/EPA Regulatory Model
AFM	acid-forming material
AGR	acid gas removal
AHA	American Heart Association
ALOHA	Areal Locations of Hazardous Atmospheres
AM	amplitude-modulated
AMD	acid mine drainage
AMS	American Meteorological Society
ANSI	American National Standards Institute
APC	alpha platinum cobalt unit
APE	area of potential effect
APHEA2	Air Pollution and Health: A European Approach
AQI	air quality index
AQRVs	air quality-related values
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
AST	aboveground storage tank
ATV	average traffic volume
AUM/ac	animal unit month† per acre
BACT	best available control technology
BAT	best available technology
BBS	Breeding Bird Survey
BCD	Biological Conservation Database
BF	bottomland forest
BLM	Bureau of Land Management
BLS	Bureau of Labor Statistics
BMP	best management practice
bpf	blows per foot
BPIP	Building Profile Input Program
BSSC	Building Seismic Safety Council
Btu/kWh	British thermal unit per kilowatt-hour
Btu/lb	British thermal units per pound

bu/ac	bushel per acre
C	active construction
CAA	Clean Air Act
CaCO ₃	calcium carbonate
CAIR	Clean Air Interstate Rule
CAMR	Clean Air Mercury Rule
CASTNet	Clean Air Status and Trends Network
CBC	Christmas Bird Count
CCPI	Clean Coal Power Initiative
CCSP	U.S. Climate Change Science Program
CDHS	California Department of Health Services
CEQ	Council on Environmental Quality
CFR	Code of Federal Regulations
cfs	cubic foot per second
cfs/mi ²	cubic foot per second per square mile
cm	centimeter
cmbs	centimeter below surface
CNA	Central North America
CO	carbon monoxide
CO ₂	carbon dioxide
COS	carbonyl sulfide
CPCN	Certificate of Public Convenience and Necessity
CS₂	carbon disulfide
CT	combustion turbine
CWA	Clean Water Act
DAT	deposition analysis threshold
dBA	A-weighted decibel
dbh	diameter at breast height
DGPS	digital global positioning system
DLL	day of lost life
DO	dissolved oxygen
DOE	U.S. Department of Energy
DOI	U.S. Department of the Interior
DOT	U.S. Department of Transportation
DSM	demand-side management
Eagle Act	Bald and Golden Eagle Protection Act of 1940
ECT	Environmental Consulting & Technology, Inc.
EEOC	U.S. Equal Employment Opportunity Commission
EGU	electric generating unit
EIA	Energy Information Agency
EIS	environmental impact statement
ELF	extremely low frequency
EMEPA	East Mississippi Electric Power Association
EMF	electric and magnetic field
EOR	enhanced oil recovery
EPA	U.S. Environmental Protection Agency
EPAct05	Energy Policy Act of 2005
EPT	Ephemeroptera + Plecoptera + Trichoptera
ERF	exposure-response function
ERPGs	Emergency Response Planning Guidelines

ES&EE	Earth Science & Environmental Engineering
ESA	Endangered Species Act of 1973
F	open field
FAA	Federal Aviation Administration
FEIS	Final Environmental Impact Statement
FEMA	Federal Emergency Management Agency
FFPPA	Federal Farmland Protection Policy Act
FGD	flue-gas desulfurization
FHWA	Federal Highway Administration
FLAG	Federal Land Managers' Air Quality-Related Values Workgroup
FLM	Federal Land Managers
FM	frequency-modulated
FR	<i>Federal Register</i>
ft	foot
ft bls	foot below land surface
ft/day	foot per day
ft/day/ft	foot per day per foot
ft ² /day	square foot per day
ft ³	cubic foot
ft ³ /hr	cubic foot per hour
ft-msl	feet above mean sea level
ft-NGVD	feet National Geodetic Vertical Datum
G	gas pipeline corridors
g/cm ³	gram per cubic centimeter
g/m ² /yr	gram per square meter per year
GAQM	Guideline on Air Quality Models
GCP	good combustion practice
GHG	greenhouse gas
GIS	geographical information system
GLO	General Land Office
gpd	gallon per day
gpd/ft	gallon per day per foot
gpd/ft ²	gallon per day per square foot
gpm	gallon per minute
gpm/ft	gallon per minute per foot
GPS	global positioning system
gr/dscf	grain per dry standard cubic foot
GRN	Gulf Restoration Network
GS	G sand interval
GSA	Geological Society of America
H	hardwoods
H'	taxa diversity index
H ₂	hydrogen
H ₂ O	water
H ₂ S	hydrogen sulfide
H ₂ SO ₄	sulfuric acid
HABS	Historic American Building Survey
HAP	hazardous air pollutant
HAS	habitat assessment score
HCN	hydrogen cyanide

HDPE	high-density polyethylene
HEM-3	EPA's Human Exposure Model, Version 3
Hg _p	particle-bound mercury
HHV	higher heating value
HP	hardwood-pine
HQ	hazard quotient
hr/yr	hour per year
HRSG	heat recovery steam generator
HUD	Department of Housing and Urban Development
Hz	Hertz
I-10	Interstate 10
I-20	Interstate 20
I-59	Interstate 59
IARC	International Agency for Research on Cancer
IBC	International Building Code
ICNIRP	International Commission on non-Ionizing Radiation Protection
IDLH	immediately dangerous to life or health
IGCC	integrated gasification combined-cycle
IRP	integrated resource plan
IRS	Internal Revenue Service
ISO	International Standards Organization
IWAQM	Interagency Workgroup on Air Quality Modeling
JAN	Jackson International Airport
JS	J sand interval
KBR	Kellogg Brown & Root, Inc.
KCS	Kansas City Southern
Kf	soil erodibility of the fine-earth fraction (material less than 2 millimeters in size)
kg/day	kilogram per day
kg/ha/yr	kilogram per hectare per year
kg/km ² /month	kilogram per square kilometer per month
kg/m ³	kilogram per cubic meter
km	kilometer
kV	kilovolt
lb	pound
lb CO ₂ /MWh	pound of carbon dioxide per megawatt-hour
lb/ac	pound per acre
lb/ft ²	pound per square foot
lb/hr	pound per hour
lb/min	pound per minute
lb/MMBtu	pound per million British thermal units
lb/MWh	pound per megawatt-hour
lb/yr	pound per year
LCOE	levelized cost of electricity
L _{dn}	day-to-night sound level
L _{eq}	equivalent sound level
lf	linear foot
LOS	level of service
LPN	listing priority number
LWA	Lower Wilcox aquifer

m/s	meter per second
MACT	maximum achievable control technology
MARIS	Mississippi Automated Resource Information System
M_b	body-wave magnitude
MBCI	Mississippi Band of Choctaw Indians
MCEQ	Mississippi Commission on Environmental Quality
MCL	maximum contaminant level
MDA	Mississippi Development Authority
MDAH	Mississippi Department of Archives and History
MDEQ	Mississippi Department of Environmental Quality
MDOT	Mississippi Department of Transportation
MDWFP	Mississippi Department of Wildlife, Fisheries, and Parks
MEI	Meridian Key Field Airport
meq/100g	milli-equivalent per 100 grams
mg/kg	milligram per kilogram
mg/L	milligram per liter
MG	Mississippi Gasification, LLC
MGD	million gallons per day
mi^2	square mile
mills/kWh	0.1 cent per kilowatt-hour
Mississippi Power	Mississippi Power Company
MM5	Version 5 of the Penn State/NCAR Mesoscale Model
MMbtu/hr	million British thermal units per hour
mmhos/cm	millimhos per centimeter
MMREM	MPCA Mercury Risk Estimation Method
MMV	measurement, modeling, and validation
MNHP	Mississippi Natural Heritage Program
MOA	Memorandum of Agreement
MODFLOW	Modular Three-Dimensional Finite Difference Ground Water Flow Model
MPCA	Minnesota Pollution Control Agency
mph	mile per hour
MS	Mississippi State Highway
MSDH	Mississippi State Department of Health
MSHA	Federal Mining Safety and Health Act
MSMRA	Mississippi Surface Mining and Reclamation Act of 1977
MW	megawatt
MWA	Middle Wilcox aquifer
MWh/yr	megawatt-hour per year
MWQCIC	Mississippi's Water Quality Criteria for Intrastate, Interstate, and Coastal Waters
N_2	nitrogen
NAAQS	national ambient air quality standard
NACC	North American Coal Corporation
NADP	National Atmospheric Deposition Program
NAS	Naval Air Station
NATA	National-Scale Air Toxics Assessment
NCDC	National Climatic Data Center
NCEDC	Northern California Earthquake Data Center
ND	not detected above method detection limits
NEHRP	National Earthquake Hazards Reduction Program
NEIC	National Earthquake Information Center
NEPA	National Environmental Policy Act of 1969

NESHAP	National Emissions Standards for Hazardous Air Pollutants
NETL	National Energy Technology Laboratory
New South	New South Associates, Inc.
NGCC	natural gas combined-cycle
NHPA	National Historic Preservation Act
NIEHS	National Institute of Environmental Health Sciences
NIOSH	National Institute for Occupational Safety and Health
NMMAPS	National Morbidity, Mortality, and Air Pollution Study
NO	nitric oxide
NO ₂	nitrogen dioxide
NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent
NO _x	oxides of nitrogen
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NRPB	National Radiation Protection Board
NSPS	New Source Performance Standards
NSR	New Source Review
NTU	nephelometric turbidity units
NWI	National Wetlands Inventory
NWS	Norfolk Southern Systems
O&M	operation and maintenance
OLF	outlying landing field
OLWR	Office of Land and Water Resources
OPC	Office of Pollution Control
OSHA	Occupational Safety and Health Administration
OUC	Orlando Utilities Commission
PAC	protection action criteria
PAC	process air compressor
PAH	polynuclear aromatic hydrocarbon
PC	pulverized coal
PCB	polychlorinated biphenyl
PGA	peak ground acceleration
PH	pine-hardwood
PHMSA	Pipeline and Hazardous Materials Safety Administration
PHWD	Pat Harrison Waterway District
PM	particulate matter
PM ₁₀	particulate matter less than or equal to 10 micrometers in aerodynamic diameter
PM _{2.5}	particulate matter less than or equal to 2.5 micrometers in aerodynamic diameter
POM	polycyclic organic matter
POTW	publically owned treatment works
PP	planted pine
ppb	part per billion
ppm	part per million
ppmv	part per million by volume
ppmvd	part per million by dry volume
ppt	part per thousand
PRIME	plume rise model enhancement
PSC	Public Service Commission

PSD	Prevention of Significant Deterioration
PSDF	Power Systems Development Facility
psi	pound per square inch
psia	pound per square inch absolute
QA/QC	quality assurance/quality control
R	road
R/C	residential/commercial
R&D	research and development
RAC	reference air concentration
RBA	rapid bioassessment
RCRA	Resource Conservation and Recovery Act
RfC	reference concentration
RfD	oral reference dose
RGM	reactive gaseous divalent mercury (Hg ²⁺)
RHPP	Red Hills Power Project
RIM	rate impact measure
RIMS	Regional Industrial Multiplier System
RMP	risk management plan
ROD	Record of Decision
RV	recreational vehicle
S	shrubland
s.u.	standard unit
SA	spectral acceleration
scf	standard cubic foot
SCR	selective catalytic reduction
SCS	Southern Company Services, Inc.
SFWMD	South Florida Water Management District
SHPO	State Historic Preservation Officer
SIA	significant impact area
SIL	significant impact level
SIP	State Implementation Plan
SMCRA	Surface Mine Control and Reclamation Act
SMEPA	South Mississippi Electric Power Association
SNG	Southern Natural Gas
SO ₂	sulfur dioxide
SO ₃	sulfur trioxide
SO _x	sulfur oxides
SPCC	spill prevention, control, and countermeasure
SPLP	synthetic precipitation leaching procedure
SPR	strategic petroleum reserve
SPT	standard penetration test
SSTEMP	Stream Segment Temperature Model
STEL	short-term exposure limit
SWPPP	stormwater pollution prevention plan
syngas	synthesis gas
T	soil loss tolerance
t/1000t	ton of material
TCLP	toxicity characteristic leaching procedure
TDS	total dissolved solids

TFM	toxic-forming materials
TGPL	Tennessee Gas Pipeline Company
THPO	Tribal Historic Preservation Officer
TMD	toxic material drainage
TMDL	total maximum daily load
tpd	ton per day
tph	ton per hour
tpy	ton per year
TRC	total resource cost
TRIG™	Transport Integrated Gasification
TSS	total suspended solids
TVA	Tennessee Valley Authority
TVAR	Tennessee Valley Archaeological Research
U.S. 45	U.S. Highway 45
U.S. 78	U.S. Highway 78
U.S. 80	U.S. Highway 80
U.S.C.	United States Code
UB	underburden
UHF	ultra high frequency
UIC	underground injection control
UNEP	United Nations Environment Programme
URE	unit risk estimate
URF	unit risk factors
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
UTM	Universal Transverse Mercator
V/m	volts per meter
VHF	very high frequency
VISTAS	Visibility Improvement State and Tribal Association of the Southeast
Vittor	Barry Vittor & Associates, Inc.
VMT	vehicle-mile traveled
VOC	volatile organic compound
WGS	water gas shift
WHO	World Health Organization
WIC	Women, Infants, and Children
WMA	Wildlife Management Area
WMO	World Meteorological Organization
WPA	Works Progress Administration
WRAP	Wetland Rapid Assessment Procedure
WRDA	Water Resources Development Act
WRIR	Water Resources Investigation Report
WSA	wet gas sulfuric acid
WSS	Web Soil Survey
WWTP	wastewater treatment plant
YLL	year of lost life