
ACRONYMS AND ABBREVIATIONS

ΔE	plume perceptibility
$^{\circ}C$	degree Celsius
$^{\circ}F$	degree Fahrenheit
$\mu g/m^3$	microgram per cubic meter
$\mu g/m_2\text{-dm}$	Microgram per square meter-decimeter
μPa	Micropascal

-A-

AA	Antiquities Act
AIRFA	American Indian Religious Freedom Act
ALP	Animas La Plata Project
AML	Abandoned Mine Land
AMoN	Ammonia Monitoring Network
ANFO	ammonium nitrate and fuel oil
ANSI	American National Standards Institute
APE	Area of potential effect
APLIC	Avian Power Line Interaction Committee
APS	Arizona Public Service
AQRA	air quality resource area
ARPA	Archaeological Resources Protection Act
ASU	Arizona State University

-B-

BA	Biological Assessment
BART	best available retrofit technology
BBNMC	BHP Billiton New Mexico Coal, Inc.
BE	Biological Evaluation
BIA	Bureau of Indian Affairs
BLET	Black Lung Excise Tax
BLM	Bureau of Land Management
BMP	best management practice
BNCC	BHP Navajo Coal Company
BO	Biological Opinion
BTU	British thermal units

-C-

CAA	Clean Air Act
Caltrans	California Department of Transportation
CARB	California Air Resources Board
cc	cubic centimeter
CCB	coal combustion byproducts
CCR	coal combustion residue
CDC	Centers for Disease Control
CEQ	Council on Environmental Quality
CFR	Code of Federal Regulations
cfs	cubic feet per second
CH ₄	methane
CLRD	chronic lower respiratory disease
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	carbon dioxide equivalent
COPC	compound of chemical concern
COPEC	chemical of potential concern
Cp	plume contrast
CSA	Coal supply agreement
CSU	Colorado State University
CUA	Customary use area
CWA	Clean Water Act

-D-

dB	Decibel
dBA	A-weighted sound level
dB _L	linear decibel
DCA	Division of Conservation Archaeology
DCRM	Dinétahdóó Cultural Resources Management
DE	diesel engine exhaust
DEHP	bis(2-ethylhexyl)phthalate
DEM	digital elevation model
DFADA	Dry Fly Ash Disposal Area
dm	decimeter

Diné C.A.R.E.	Diné Citizens Against Ruining Our Environment
DOI	U.S. Department of the Interior
DPM	Diesel Particulate Matter
DREP	Desert Rock Energy Project

-E-

EA	Environmental Assessment
EAP	Emergency Action Plan
EET	emission estimation techniques
EIS	Environmental Impact Statement
EMI	Ecosystem Management Inc.
EPA	U.S. Environmental Protection Agency
ERA	Ecological Risk Assessment
ESA	Endangered Species Act

-F-

FCPP	Four Corners Power Plant
FGD	flue gas desulfurization
FHWA	Federal Highway Administration
FIP	Federal Implementation Plan
FONSI	Finding of No Significant Impact
FSC	final surface configuration
FTA	Federal Transit Administration
FY	fiscal year

-G-

GAO	Government Accountability Office
GHG	greenhouse gas
GHGRP	Greenhouse Gas Reporting Program
GIS	Geographic Information System
gpm	gallons per minute
gpm	gallon per minute
GWP	Global warming potential

-H-

H ₂ SO ₄	sulphuric acid
HAP	hazardous air pollutant
HDPE	high-density polyethylene

HHRA	human health risk assessment
HQ	Hazard Quotient
HSEC	Health, Safety, Environmental and Community
HUC	Hydrologic Unit Code
HUD	U.S. Department of Housing and Urban Development
Hz	Hertz

-I-

IMPROVE	Interagency Monitoring of Protected Visual Environments
in/sec	Inches per second
IP	Individual Permit
IPCC	Intergovernmental Panel on Climate Control
ISO	International Organization for Standardization

-K-

kg/ha	kilograms per hectare
kg/ha-dm	Kilograms per hectare per decimeter
kg/mmBTU	Kilograms per Million British Thermal Unit
kg/MW-hr	Kilograms per megawatt hour
KOP	key observation point
kV	kilovolt

-L-

L ₁₀ , L ₅₀ , L ₉₀	noise levels exceeded 10, 50, or 90% of the time during a sampling period
LAER	lowest achievable emission rate
LAI	Lined Ash Impoundment
lb/acre	pounds per acre
lb/mmBTU	Pounds per Million British Thermal Unit
LDWI	Lined Decant Water Impoundment
LDWP	Lined Decant Water Pond
L _{dn}	Day-night average sound level
LEDPA	least environmentally damaging practicable alternative
L _{eq}	equivalent noise level
LLC	Limited Liability Company
L _{max}	maximum noise level

-M-

MATS	Mercury and Air Toxics Standards
MDL	method detection limit
MDN	Mercury Deposition Network
MER	maximum economic recovery
mg/kg	milligram per kilogram
mg/L	milligram per liter
mL	milliliter
mm	millimeter
mmBTU/hr	Million British Thermal Units per Hour
MCo	BHP Billiton Mine Management Company
MNA	Museum of Northern Arizona
MOU	Memorandum of Understanding
MSGP	Multi-Sector General Permit
MSHA	Mine Safety and Health Administration
MT	metric ton
MT/yr	metric tons per year
Mtpy	million tons per year
MUSLE	Modified Universal Soil Loss Equation
MW	megawatt
MW-hrs	megawatt hours

-N-

N ₂ O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NADP	National Acid Deposition Program
NAGPRA	Native American Graves Protection and Repatriation Act
NAPI	Navajo Agricultural Products Industry
NEPA	National Environmental Policy Act
NESHAP	National Emission Standards for Hazardous Air Pollutants
NESL	Navajo Endangered Species List
ng/l	nanograms per liter
ng/m ²	nanograms per square meter
ng/m ³	nanograms per cubic meter
(NH ₄) ₂ SO ₄	ammonium sulfate

NHPA	National Historic Preservation Act
NIIP	Navajo Indian Irrigation Project
NIOSH	National Institute of Occupational Safety and Health
NMCC	Navajo Mine Coal Company
NMDOT	New Mexico Department of Transportation
NMED	New Mexico Environment Department
NMEP	Navajo Mine Energy Project
NMOSE	New Mexico Office of the State Engineer
NMPIF	New Mexico Partners in Flight
NNAD	Navajo Nation Archaeological Department
NNC	Navajo Nation Code
NNCRPA	Navajo Nation Cultural Resource Protection Act
NNDED	Navajo Nation Division of Economic Development
NNDFW	Navajo Nation Department of Fish and Wildlife
NNEPA	Navajo Nation Environmental Protection Agency
NNHPD	Navajo Nation Historic Preservation Department
NNOPR	Navajo Nation Operating Permit Regulations
NO	nitric oxide
NO ₂	nitrogen dioxide
NO _x	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NSPS	new source performance standards
NSTC	National Science and Technology Council
NTEC	Navajo Transitional Energy Company
NTN	National Trends Network
NTUA	Navajo Tribal Utilities Authority
NWP	Nationwide Permit

-O-

O ₃	Ozone
OHWM	ordinary high water mark
OSHA	Occupational Safety and Health Administration
OSMRE	U.S. Department of the Interior Office of Surface Mining Reclamation and Enforcement

-P-

PA	Programmatic Agreement
PAH	Polycyclic aromatic hydrocarbon
Pb	Lead
PCB	polychlorinated biphenyl
PCS	Pictured Cliffs Sandstone
PHC	probable hydrologic consequences
PL	Public Law
PM	particulate matter
PM ₁₀	particulate matter less than or equal to 10 microns in diameter
PM _{2.5}	particulate matter less than or equal to 2.5 microns in diameter
PMLU	post-mining land use
PNM	Public Service Company of New Mexico
ppb	parts per billion
ppbv	parts per billion by volume
ppm	parts per million
ppt	Parts per trillion
PPV	peak particle velocity
PRMP	Paleontological Resources Management Plan
PSD	Prevention of Significant Deterioration
psig	pounds per square inch gage
PTE	potential-to-emit
PUC	Public Utilities Commission

-R-

R2P2	Resource Recovery and Protection Plan
RACT	Reasonably Available Control Technology
RCRA	Resource Conservation and Recovery Act
REL	reference exposure level
RFD	Reasonably Foreseeable Development

RM	river mile
RMS	root mean square
ROC	Reactive organic compound
ROD	Record of Decision
ROI	region of influence
ROW	right-of-way
RSL	Regional screening level

-S-

SCAQMD	South Coast Air Quality Management District
SCC	social cost of carbon
SCR	selective catalytic reduction
SF ₆	sulphur hexafluoride
SIL	Significant impact level
SIP	State Implementation Plan
SJCC	San Juan Coal Company
SJGS	San Juan Generating Station
SLAMS	State and Local Air Monitoring Stations
SMCRA	Surface Mining Control and Reclamation Act
SNCR	selective non-catalytic reduction
SO ₂	sulfur dioxide
SO ₄	Sulfate
SPLP	Synthetic Precipitation Leaching Procedure
Std	ozone standard
STPF	Severance Tax Permanent Fund
SWPPP	Stormwater Pollution Prevention Plan

-T-

TCP	Traditional Cultural Properties
TDS	total dissolved solids
TIP	Tribal Implementation Plan
TMDL	Total Maximum Daily Load
tpy	tons per year
TSP	Total suspended particulate matter

-U-

U.S.	United States
UIG	Universal Industrial Gases, Inc.
USACE	United States Army Corps of Engineers
USC	United States Code
USDA	United States Department of Agriculture
USCB	United States Census Bureau
USFS	United States Forest Service
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey

-V-

VOC	volatile organic compound
VRM	Visual Resource Management

-W-

WQC	Water Quality Certification
WWTF	Wastewater Treatment Facility