

SECTION 5

Acronyms and Abbreviations

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AAP	ABB Alstrom Power Environmental Systems
AAQS	ambient air quality standards
AC	alternating current
AC/DC	alternating current/ direct current
ACC	air-cooled condenser
acfm	actual cubic feet per minute
ACHP	Advisory Council on Historic Preservation
ADA	Americans with Disabilities Act
ADPA	Archaeological Data Preservation Act
ADT	average daily traffic
AIRFA	American Indian Religious Freedom Act
AIRS	EPA's Aerometric Information Retrieval System
ALS	advanced life support
ANSI	American National Standards Institute
API	American Petroleum Institute
APNE	area of potential noise effect
AQRV	air quality related values
ARPA	Archaeological Resources Protection Act
ASC	Application for Site Certification
ASCE	American Society of Civil Engineers
ASIL	acceptable source impact level
ASME	American Society of Mechanical Engineers
AWWA	American Water Works Association
B.P.	Before Present
BACT	best available control technology
bcf	billion cubic feet
bcf/d	billion cubic feet per day
BFP	boiler feed pump
bgs	below the ground surface
BLM	Bureau of Land Management
BMP	best management practice
BOP	balance of plant
BPA	Bonneville Power Administration
BPIP	Building Profile Input Program
Btu	British thermal unit(s)
CAA	Clean Air Act
CaCO ₃	calcium carbonate
CAO	Critical Areas Ordinance
CARB	California Air Resources Board
Catalytica	Catalytica Energy Systems

CCGG	Columbia County Grain Growers
CEM	continuous emission monitor
CEMS	continuous emissions monitoring system
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFC	chlorofluorocarbons
CFR	Code of Federal Regulations
cfs	cubic feet per second
CGT	combined-cycle combustion gas turbine
CH ₄	methane
CN	curve number
CNEL	community noise equivalent level
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ E	carbon dioxide equivalent
Corps	U.S. Army Corps of Engineers
CPR	cardiopulmonary resuscitation
CR	catalyst replacement
CREA	Columbia Rural Electric Association
CRF	capital recovery factor
CRMMP	cultural resources monitoring and mitigation plan
CRP	Conservation Reserve Program
CTI	CenturyTel
CUP	conditional use permit
CV	control valve
DAS	data acquisition system
dB	decibel(s)
dBA	A-weighted decibel sound level
dBC	C-weighted decibel sound level
DC	direct costs
dekatherms/d	dekatherms per day
DEM	Digital Elevation Model
DIC	direct installation costs
DLI	Department of Labor and Industries
DLN	dry, low-NO _x
DNL	day-night noise level
DNR	Washington State Department of Natural Resources
DOD	U.S. Department of Defense
DOE	U.S. Department of Energy
DOH	Washington State Department of Health
DOT	U.S. Department of Transportation
dscfh	dry standard cubic feet per hour
duct burners	supplemental duct firing
EBIT	earnings before interest and taxes
Ecology	Washington State Department of Ecology

EDNA	environmental designation for noise abatement
EEI	Edison Electric Institute
EFSEC	Energy Facility Site Evaluation Council
EIS	environmental impact statement
EMT	emergency medical technician
EPA	U.S. Environmental Protection Agency
EPC	engineering, procurement, and construction
ERC	emission reduction credit
ESA	Endangered Species Act
EWG	exempt wholesale generator
EzA	Esquatzel Series soils
°F	degrees Fahrenheit
FAA	Federal Aviation Administration
famsl	feet above mean sea level
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FIRES	finance, insurance, and real estate
FLAG	<i>Federal Land Managers Air Quality Related Values Work Group Phase 1 Report (USFS, NPS, USFWS, 2000)</i>
FONSI	finding of no significant impact
ft	feet
ft/sec	feet per second
FTA	Federal Transit Administration
FTE	full-time equivalent
g/ha/yr	grams per hectare per year
g/hectare	grams per hectare
g/m ³	grams per dry cubic meter
g/s	grams per second
gal/employee/day	gallons per employee per day
gal/hr	gallons per hour
GAQM	<i>Guidelines on Air Quality Models</i>
GE	General Electric
GEP	good engineering practice
GHGs	greenhouse gases
GP	poorly graded gravel
gpd	gallons per day
gpd/ft ²	gallons per day per square foot
gpm	gallons per minute
gr/dscf	grains per dry standard cubic foot
GSUT	generator step-up transformer
GTN	Gas Transmission-Northwest
GVWR	gross vehicle weight restriction
H ₂ SO ₄	sulfuric acid
HAP	hazardous air pollutant

HAZMAT	hazardous materials team
HCM	<i>Highway Capacity Manual</i>
HF	hydrogen fluorides
HHV	high heat value
HNO ₃	nitric acid
HP	high pressure
hp	horsepower
HPA	Hydraulic Project Approval
HRSG	heat recovery steam generator
HVAC	heating, ventilating, and air conditioning
Hz	hertz
I&C	instrumentation and control
IC	indirect costs
IDLH	immediately dangerous to life and health
IES	Illuminating Engineering Society
in/yr	inches per year
IP	intermediate pressure
IWAQM2	Interagency Workgroup on air Quality Modeling Phase 2 <i>Summary Report and Recommendations for Modeling Long Range Transport Impacts</i> (EPA-454/R-98-019)
JV	joint venture
kg/ha/yr	kilograms per hectare per year
kg/s/CGT	kilograms per second per combustion gas turbine
km	kilometer(s)
kPa	kilopascal(s)
kV	kilovolt(s)
kW	kilowatt(s)
kWh	kilowatt-hour(s)
L	length
L.L.C.	limited liability company
LAER	lowest achievable emission rate
lb/gal	pounds per gallons
lb/hr	pounds per hour
lb/lb-mole	pounds per pound-mole
lb/million Btu	pounds per million British thermal units
lb/MMBtu	pounds per million British thermal units
Ldn	day-night noise level
Leq	equivalent noise level
LHV	low heat value
Ln	percentile noise level
LOS	level of service
LP	low pressure
LTO	low temperature oxidation

M/R station	metering/regulatory station
m/s	meters per second
MACT	maximum achievable control technology
MAOP	maximum allowable operating pressure
mb	millibar(s)
MBTA	Migratory Bird Treaty Act
MDF	medium-density fiberboard
MG	million gallons
mg/L	milligrams per liter
µg/m ³	micrograms per cubic meter
mg/m ³	milligrams per cubic meter
ML	silt
Mm	megameter(s)
mm	millimeter(s)
MM5	Mesocale Model – Generation 5
MMBtu	million British thermal unit(s)
MMBtu/hr	million British thermal units per hour
µmhos/cm	micromhos per centimeter
MMSCFH	million standard cubic feet per hour
MMTCE	million metric tons of carbon equivalent
mph	miles per hour
mscfh	million standard cubic feet per hour
msl	mean sea level
MTCA	Model Toxics Control Act
MTCDE	metric tons of CO ² equivalent
MTCE	metric tons of carbon equivalent
MTCE/yr	metric tons of carbon equivalent per year
MVA	megavolt ampere(s)
mVA	millivolt ampere(s)
MVM	million vehicle-miles
MW	megawatt(s)
MWh	megawatt-hour(s)
2(NH ₄ (SO ₄))	ammonium bisulfate
N/A	not available
N ₂	nitrogen
N ₂ O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAGPRA	Native American Graves Protection and Repatriation Act
NASS	National Agricultural Statistics Service
nd	not detected within the sensitivity of the instrument
NEPA	National Environmental Policy Act
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NFPA	National Fire Protection Act
ng/J	nanograms per joule
NH ₃	ammonia

NHPA	National Historic Preservation Act
NIST	National Institute of Standards and Technology
NMFS	National Marine Fisheries Service
NMVOCs	nonmethane volatile organic compounds
NO ₂	nitrogen dioxide
NOC	notice of construction
NOI	notice of intent
NO _x	oxides of nitrogen
NPDES	National Pollutant Discharge Elimination System
NPE	Northwest Power Enterprises, Inc.
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NSPS	New Source Performance Standards
NSR	new source review
NTU	nephelometric turbidity unit
NWAPCA	Northwest Air Pollution Central Authority
NWI	National Wetland Inventory
NWR	National Wildlife Refuge
O&M	operation and maintenance
O ₃	ozone
OAQPS	Office of Air Quality Planning and Standards
OAR	Oregon Administrative Rule
OFM	Office of Financial Management (Washington)
OMI	<i>Operations and Maintenance Instructions</i>
OSHA	Occupational Safety and Health Administration
OWS	oil-water separator
PAH	polycyclic aromatic hydrocarbons
Pb	lead
PEC	purchased equipment costs
PEM	palustrine emergent
PFO	palustrine forested
PG&E	Pacific Gas and Electric
PGA	peak ground acceleration
PGT	Pacific Gas Transmission
PHS	priority habitats and species
PM	particulate matter
PM ₁₀	particulates less than 10 microns in diameter
PNUCC	Pacific Northwest Utilities Conference Committee
ppb	parts per billion
PPL	PPL Global, L.L.C.
ppm	parts per million
ppmvd	parts per million by volume, dry
PSD	prevention of significant deterioration
psi	pounds per square inch
psia	pounds per square inch absolute

psig	pounds per square inch gauge
PSS	palustrine scrub-shrub
PST	Pacific Standard Time
PVC	polyvinyl chloride
QA/QC	quality assurance/quality control
RACT	reasonably available control technology
RBLC	EPA's RACT/BACT/LAER Clearinghouse
RCRA	Resource Conservation and Recovery Act
RCW	<i>Revised Code of Washington</i>
REA	Rural Electric Association
RH	relative humidity
RM	river mile(s)
RMP	EPA's Risk Management Program
Rn	riverwash
RO	reverse osmosis
ROW	right-of-way
RV	recreational vehicle
SARA	Superfund Amendments and Reauthorization Act
SCA	Site Certification Agreement
SCADA	supervisory control and data acquisition
SCBA	self-contained breathing apparatus
SCC	Source Classification Code
scf	standard cubic feet
scf/lb-mole	standard cubic feet per pound-mole
scf/MMBtu	standard cubic feet per million British thermal units
scfh	standard cubic feet per hour
scfm	standard cubic feet per minute
SCR	selective catalytic reduction
sdcfh	standard dry cubic feet per hour
SE2	Sumas 2 Generation Facility
SEPA	State Environmental Policy Act
SER	significant emission rate
SHPO	State Historic Preservation Office
SIL	significant impact level
SIP	State Implementation Plan
SNCR	selective non-catalytic reduction
SO ₂	sulfur dioxide
SO ₃	sulfur trioxide
SO _x	sulfur oxides
SPC	Starbuck Power Company, L.L.C.
SPCC	Spill Prevention Countermeasure and Control
SPP	Starbuck Power Project
sq. ft.	square feet
SQER	small quantity emission rates

SR	State Route
SrD	Stratford very stony silt loam
STG	steam turbine-generator
SWPC	Siemens Westinghouse Power Corporation
SWPPP	Stormwater Pollution Prevention Plan
TAP	toxic air pollutant
T-BACT	best available control technology for air toxic compounds
Tc	terrace escarpment
TCI	total capital investment
TLV-TWA	threshold limit value – time weighted average
TMPP	Three Mountain Power Project
ton/hr	tons per hour
TPY	total net NO _x reductions
TRB	Transportation Research Board
TSP	total suspended particulates
UBC	Uniform Building Code
UFC	Uniform Fire Code
UHC	unburned hydrocarbons
UMC	Uniform Mechanical Code
UPC	Uniform Plumbing Code
UPRR	Union Pacific Railroad
UPS	uninterruptible power supply
USC	U.S. Code
USCS	Unified Soil Classification System
USDA	U.S. Department of Agriculture
USFS	USDA Forest Service
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
UTM	universal transverse Mercator
V	velocity
VOC	volatile organic compound
VRI	Visual Resource Inventory
VRM	Visual Resource Management
WAC	<i>Washington Administrative Code</i>
WASS	Washington Agricultural Statistics Service
WCSB	Western Canada Supply Basin
WDFW	Washington Department of Fish and Wildlife
WG	water gauge
WSDOT	Washington State Department of Transportation
WSHA	Washington Safety and Health Administration
WSHPO	Washington State Historic Preservation Office
WSP	Washington State Patrol
WSUCE	Washington State University Cooperative Extension

WUTC Washington Utilities and Transportation Commission

yd³ cubic yard(s)