

Air Permitting Acronyms and Other Abbreviations

This acronym list contains acronyms and abbreviations that are commonly used to discuss and describe technical information related to air permitting activities, and to the review of air permit applications.

Symbols and Numbers

°C = Temperature in degrees Celsius
°F = Temperature in degrees Fahrenheit
°K = Temperature in degrees Kelvin
µg = microgram
µg/m³ = microgram per cubic meter

-A-

ACC = annual compliance certification
acfm = actual cubic feet per minute
ACI = air curtain incinerator
ACI = animal carcass incinerator
ACPS = application compliance plan and schedule
ADMT = Air Dispersion Modeling Team
ADR = alternate designated representative
AEMR = applicant emission unit monitoring requirements
AER = allowable emission rate
AERMOD = American Meteorological Society and U.S. Environmental Protection Agency *Regulatory Model*, an engineering model
AMCV = air monitoring comparison value
AMINECalc = Amine Unit Air Emissions, an engineering model
AMOC = alternate means of control
AOS = alternative operating scenario
AP-42 = Air Pollutant Emission Factors, 5th edition
APAD = Air Permit Allowable Database
APD = Air Permits Division
API = American Petroleum Institute
APIRT = Air Permits Initial Review Team
APWL = air pollutant watch list

TCEQ - (APDG 6213v3, revised 11/18) Air Permitting Acronyms and Other Abbreviations
This form is for use by facilities subject to air quality permit requirements and may be revised periodically.

ARACT = alternate RACT
ArcGIS Reader = software to view geographic information system (GIS) data
AREACIRC = co-located circular area source
ARP = acid rain program

-B-

BPA = Beaumont/ Port Arthur
BACT = best available control technology
BAE = baseline actual emissions
BART = best available retrofit technology
bbf = barrel
bbf/day = barrel per day
bhp = brake horsepower
BMP = best management practices
BTEX = benzene, toluene, ethyl benzene, xylene
Btu = British thermal unit
Btu/scf = British thermal unit per standard cubic foot or feet

-C-

C₂H₄O = ethylene oxide
C₂H₆ = ethane
C₃H₈ = propane
CAA = Clean Air Act
CAAA = Clean Air Act Amendments
CAIR = Clean Air Interstate Rule
CAM = compliance-assurance monitoring
CAMR = Clean Air Mercury Rule

CCEDS = Consolidated Compliance and Enforcement Data System
CCO = Chief Clerk's Office
CEMS = continuous emissions monitoring systems
CEO = Chief Engineer's Office
CERCLA = Comprehensive Environmental Response, Compensation and Liability Act
cf/day = cubic foot or feet per day
CFC = chlorofluorocarbons
cfm = cubic feet (per) minute
CFR = Code of Federal Regulations
CH₄ = methane
CIN = control (equipment) identification number
CISWI = commercial and industrial solid waste incineration
Cl₂ = chlorine
CMP = (Texas) Coastal Management Plan
CN = customer ID number
CNG = compressed natural gas
CO = carbon monoxide
CO₂ = carbon dioxide
COMS = continuous opacity monitoring system
COS = carbonyl sulfide
CPMS = continuous parametric monitoring system
CR = Central Registry
CRO = Certification by Responsible Official
CS₂ = carbon disulfide
CT = cooling towers
CWA = Clean Water Act

-D-

DFW = Dallas/ Fort Worth (Metroplex)
DAR = duly authorized representative
DE = destruction efficiency
DEA = diethanolamine
DER = destruction efficiency rate
De SO_x = desulfurization
DGA = diglycolamine
DIPA = di-isopropylamine
DR = designated representative

DRE = destruction and removal efficiency
dscf = dry standard cubic foot or feet
dscfm = dry standard cubic foot or feet per minute
DV = designated value

-E-

E_{max} = maximum (acceptable) emission (rate)
ED = (TCEQ) Executive Director
EF = emissions factor
EFR = external floating roof tank
EG = emissions guidelines
EGU = electric generating unit
EI = Emissions Inventory
EQ = Emissions Inventory Questionnaire
ELD = Environmental Law Division
ELP = El Paso
EPA = (United States) Environmental Protection Agency
EPN = emission point number
ES = exempt solvent
ESL = effects screening level
ESP = electrostatic precipitator
EU = emission unit

-F-

FAP = flexible air permit
FCAA = Federal Clean Air Act
FCAAA = Federal Clean Air Act Amendments (of 1990)
FCCU = fluid catalytic cracking unit
FID = flame ionization detector
FIN = facility identification number
FIP = federal implementation plan
FLM = Federal Land Manager
FOP = federal operating permit
FR = Federal Register
ft = foot or feet
ft/sec = foot or feet per second

-G-

g = gram

GACT = generally achievable control technology
gal/wk = gallon per week
gal/yr = gallon per year
GasFindIR = GasFind infrared (camera)
GC = gas chromatography
GCCS = gas collection and control system (municipal solid waste)
GIS = geographic information system
GLC = ground level concentration
GLC_{max} = maximum (predicted) ground-level concentration
GOP = general operating permit
gpm = gallon per minute
gr/1000scf = grain per 1000 standard cubic feet
gr/dscf = grain per dry standard cubic feet

-H-

H₂CO = formaldehyde
H₂S = hydrogen sulfide
H₂SO₄ = sulfuric acid
HAP = hazardous air pollutant
HB = house bill
HC = hydrocarbons
HCl = hydrochloric acid, hydrogen chloride
Hg = mercury
HGB = Houston/Galveston/ Brazoria
HMIW = hospital, medical, and infectious waste
hp = horsepower
hr = hour
HRGC = high resolution gas chromatography
HRMS = high resolution mass spectrometry
HRVOC = highly reactive volatile organic compound
HSC = Health & Safety Code

-I-

IBR = incorporation by reference
ICE = internal combustion engine
IFR = internal floating roof tank
IMS = Information Management System

in H₂O = inches of water
in Hg = inches of mercury
IR = infrared
ISC3 = Industrial Source Complex, a dispersion model
ISCST3 = Industrial Source Complex Short-Term, a dispersion model

-J-

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-K-

K = Kelvin; extension of the degree Celsius scaled-down to absolute zero

-L-

LACT = lease automatic custody transfer
LAER = lowest achievable emission rate
lb = pound
lb/day = pound per day
lb/hr = pound per hour
lb/MMBtu = pound per million British thermal units
LBB = Legislative Budget Board
LDAR = Leak Detection and Repairs (Requirements)
L_L = loading losses
LNG = liquefied natural gas
LPG = liquefied petroleum gas **LSD** = lime spray dryer
LSFO = limestone forced oxidation scrubber
LT/D = long ton per day

-M-

M = Roman numeral for one thousand or common abbreviation for one million
M³ = million cubic meters
m = meter
m³ = cubic meter
m/sec = meters per second
MACT = maximum achievable control technology
MAERT = Maximum Allowable Emission Rate Table

MCM= million cubic meters
MDEA = methyl-diethanolamine
MEA = monoethanol amine
MECA = Mercury Emissions Control Act
MERA = modeling and effects review applicability
mg = milligram
mg/g = milligram per gram
Mg/yr = mega gram per year
mL = milliliter
MM = million in Roman numerals
MMBtu = million British thermal units
MMBtu/hr = million British thermal units per hour
MMCFD = million cubic feet per day
MMg = million mega grams
MNSR = minor new source review
MOA = Memorandum of Agreement
MOU = Memorandum of Understanding
MSDS = material safety data sheet
MSS = maintenance, startup, and shutdown
MSW = municipal solid waste
MSWDF = municipal solid waste disposal facility
MSWLF = municipal solid waste landfill
MW = megawatt

-N-

N₂ = nitrogen
NA = nonattainment
NAAQS = National Ambient Air Quality Standards
NADB = National Allowance Database
NaOH = sodium hydroxide
NAPD = Notice of Application and Preliminary Decision (second notice)
NARMP = National Acid Rain Monitoring Program
NEPA = National Environmental Policy Act
NESHAP = National Emission Standards for Hazardous Air Pollutants
NGL = natural gas liquids
NH₃ = ammonia
NMOC = non-methane organic carbon

NNSR = nonattainment new source review
NO₂ = nitrogen dioxide
NO_x = oxides of nitrogen
NOD = notice of deficiency
NOE = notice of enforcement
NOI = notice of intent
NORI = Notice of Receipt of Application and Intent to Obtain Permit (first notice)
NOV = notice of violation
NSPS = New Source Performance Standards
NSR = New Source Review
NSRP = new source review permits

-O-

O₂ = oxygen
O₃ = ozone
OA = Office of Air
OAS = Office of Administrative Services
OCE = Office of Compliance and Enforcement
OGS = oil and gas site
OLS = Office of Legal Services
OP = Operating Permits (Section)
OPIC = Office of Public Interest Counsel
ORIS = Office of Regulatory Information System

-P-

PAE = projected actual emissions
PAL = plant-wide applicability limit
Pb = lead
PBR = Permits by Rule or a single permit by rule
PCP = pollution control project
PCS = permit compliance system
PDS = preliminary determination summary
PEL = permissible exposure limit
PEMS = predictive emission monitoring system
PID = photo ionization detector
PM = particulate matter
PM = periodic monitoring
PM_{2.5} = particulate matter less than or equal to 2.5 microns in diameter

PM₁₀ = particulate matter less than or equal to ten microns in diameter
PN = public notice
PNAP = public notice authorization package
POC = products of combustion
PPA = Pollution Prevention Act
ppb = parts per billion
pphm = parts per hundred million
ppm = parts per million
ppmdv = parts per million (by) dry volume
ppmv = parts per million (by) volume
ppmvd = parts per million (by) volume, dry
PSD = prevention of significant deterioration
PSDB = point source database
psi = pounds (per) square inch
psia = pounds (per) square inch, absolute (pressure)
psig = pounds (per) square inch, gage
PTE = potential to emit
PVC = polyvinyl chloride

-Q-

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-R-

RA = relative accuracy
RACM = reasonably available control measure
RACT = reasonably available control technology
RATA = relative accuracy test audit
RBLC = RACT/BACT/LAER clearinghouse
RCRA = Resource Conservation and Recovery Act
RFC = request for comments
RICE = reciprocating internal combustion engine
RM = reference method
RN = (regulated entity) reference number
RO = responsible official
RR = Rule Registrations (Section)

RRT = requirements reference tables
RTC = response to comments
RVP = Reid vapor pressure

-S-

SARA = Superfund Amendment and Reauthorization Act
SB = Senate Bill
scf = standard cubic foot or feet
scfd = standard cubic foot or feet (per) day
scfh = standard cubic foot or feet (per) hour
scfm = standard cubic foot or feet (per) minute
scmd = standard cubic meter or meters (per) day
scmh = standard cubic meter or meters (per) hour
scmm = standard cubic meter or meters (per) minute
SCR = selective catalytic reduction
SCREEN3 = a screening version of the ISC3 model
SE = standard exemption
SIC = standard industrial classification (codes)
SIL = significant impact levels
SIP = state implementation plan
SMC = significant monitoring concentration
SMSS = scheduled maintenance, startup, or shutdown (activities)
SNCR = selective non-catalytic reduction
SOCMI = synthetic organic chemical manufacturing industry
SO₂ = sulfur dioxide
SO₄ = sulfates
SOB = statement of basis
SOP = site operating permit
SO_x = oxides of sulfur
SP = standard permit
SRU = sulfur recovery unit
SSM = startup, shutdown, or malfunction activities
Std = standard

-T-

T°C = temperature degrees Celsius --
T°F = temperature degrees Fahrenheit --
T°K = temperature degrees Kelvin --
T&S = transfer and storage --
TAC = Texas Administrative Code --
TCAA = Texas Clean Air Act --
TCEQ = Texas Commission on
Environmental Quality --
TD = Toxicology Division --
TEA = triethanolamine --
THC = total hydrocarbons --
THSC = Texas Health and Safety Code --
TLV = threshold limit value --
TMDL = total maximum daily load --
TOC = total organic compounds --
tpd = tons per day --
tph = tons per hour --
tpy = tons per year --
TRI = toxic release inventory --
TRV = technical review --
TS = transfer station (municipal solid
waste) --
TSP = total suspended particulate
(matter) --
TSS = total suspended solids --
TVP = true vapor pressure --
TWC = Texas Water Code --
TexReg = Texas Register --

-X-

-Y-

-Z-

-U-

UA = unit attributes
USC = United States Code
USEPA = United States Environmental
Protection Agency

-V-

V-B = Vasquez-Beggs correlation
equation
VOC = volatile organic compound
VRU = vapor recovery unit or system

-W-

WDP = working draft permit