Air Permitting Acronyms and Other Abbreviations

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

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

-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
ARACT = alternate RACT

-B-
BPA = Beaumont/Port Arthur
BACT = best available control technology
BAE = baseline actual emissions
BART = best available retrofit technology
bbl = barrel
bbl/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
C/C = Combustion (and) Coatings (Section)
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 SOₓ = 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-
Eₘₐₓ = 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
EIQ = 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 available 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_{\text{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

ISCST_{3} = Industrial Source Complex Short-Term, a dispersion model

-H-
H_{2}CO = formaldehyde
H_{2}S = hydrogen sulfide
H_{2}SO_{4} = sulfuric acid
HAP = hazardous air pollutant
HB = house bill
HC = hydrocarbons
HCl = hydrochloric acid, hydrogen chloride
Hg = mercury
HGB = Houston/Galveston/Brazoria
HMITW = 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 H_{2}O = inches of water
in Hg = inches of mercury
IR = infrared
ISC_{3} = Industrial Source Complex, 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/MBtu = pound per million British thermal units
LBB = Legislative Budget Board
LDAR = Leak Detection and Repairs (Requirements)
LL = 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
M^{3} = million cubic meters
m = meter
m^{3} = cubic meter
m/sec = meters per second
MACT = maximum achievable control technology
MAERT = Maximum Allowable Emission Rate Table
MCM = million cubic meters
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>MDEA</td>
<td>methyl-diethanolamine</td>
</tr>
<tr>
<td>MEA</td>
<td>monoethanol amine</td>
</tr>
<tr>
<td>MECA</td>
<td>Mercury Emissions Control Act</td>
</tr>
<tr>
<td>MERA</td>
<td>modeling and effects review applicability</td>
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<tr>
<td>mg</td>
<td>milligram</td>
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<tr>
<td>mg/g</td>
<td>milligram per gram</td>
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<tr>
<td>Mg/yr</td>
<td>mega gram per year</td>
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<tr>
<td>mL</td>
<td>milliliter</td>
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<tr>
<td>MM</td>
<td>million in Roman numerals</td>
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<tr>
<td>MMBtu</td>
<td>million British thermal units</td>
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<tr>
<td>MMBtu/hr</td>
<td>million British thermal units per hour</td>
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<tr>
<td>MMCFD</td>
<td>million cubic feet per day</td>
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<tr>
<td>MMg</td>
<td>million mega grams</td>
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<td>NNSR</td>
<td>nonattainment new source review</td>
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<td>NO2</td>
<td>nitrogen dioxide</td>
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<tr>
<td>NOx</td>
<td>oxides of nitrogen</td>
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<td>NOD</td>
<td>notice of deficiency</td>
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<td>NOE</td>
<td>notice of enforcement</td>
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<td>NOI</td>
<td>notice of intent</td>
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<td>NOV</td>
<td>notice of violation</td>
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<td>NSPS</td>
<td>New Source Performance Standards</td>
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<td>NSR</td>
<td>New Source Review</td>
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<td>new source review permits</td>
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<td>O2</td>
<td>oxygen</td>
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<td>O3</td>
<td>ozone</td>
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<td>OA</td>
<td>Office of Air</td>
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<td>OAS</td>
<td>Office of Administrative Services</td>
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<td>Office of Compliance and Enforcement</td>
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<td>oil and gas site</td>
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<td>Office of Legal Services</td>
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<td>OP</td>
<td>Operating Permits (Section)</td>
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<td>Office of Public Assistance</td>
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<td>Office of Public Interest Counsel</td>
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<td>ORIS</td>
<td>Office of Regulatory Information System</td>
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<tr>
<td>N2</td>
<td>nitrogen</td>
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<tr>
<td>NA</td>
<td>nonattainment</td>
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<tr>
<td>NAAQS</td>
<td>National Ambient Air Quality Standards</td>
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<td>NADB</td>
<td>National Allowance Database</td>
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<tr>
<td>NaOH</td>
<td>sodium hydroxide</td>
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<td>NARMP</td>
<td>National Acid Rain Monitoring Program</td>
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<td>NEPA</td>
<td>National Environmental Policy Act</td>
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<tr>
<td>NESHAP</td>
<td>National Emission Standards for Hazardous Air Pollutants</td>
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<td>NGL</td>
<td>natural gas liquids</td>
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<tr>
<td>NH3</td>
<td>ammonia</td>
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<tr>
<td>NMOC</td>
<td>non-methane organic carbon</td>
</tr>
<tr>
<td>N2O</td>
<td>nitrous oxide</td>
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<tr>
<td>NO2</td>
<td>nitrogen dioxide</td>
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Air Permitting Acronyms and Other Abbreviations (Revised 9/13)
This form is for use by facilities subject to air quality permit requirements and may be revised periodically. (APDG 6213v1)
PM = particulate matter
PM = periodic monitoring
PM$_{2.5}$ = particulate matter less than or equal to 2.5 microns in diameter
PM$_{10}$ = 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
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
SCREEN$_3$ = 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
SO$_2$ = sulfur dioxide
SO$_4$ = sulfates
SOB = statement of basis

Air Permitting Acronyms and Other Abbreviations (Revised 9/13)
This form is for use by facilities subject to air quality permit requirements and may be revised periodically. (APDG 6213v1)
SOP = site operating permit
SOx = oxides of sulfur
SP = standard permit
SRU = sulfur recovery unit
SSM = startup, shutdown, or malfunction activities
Std = standard

USEPA = United States Environmental Protection Agency

SOx = oxides of sulfur

V-B = Vasquez-Beggs correlation equation

VOC = volatile organic compound

VRU = vapor recovery unit or system

Std = standard

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

TPS = Technical Program Support (Section)

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

UA = unit attributes

USC = United States Code