

# 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/m<sup>3</sup> = 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-

**C<sub>2</sub>H<sub>4</sub>O** = ethylene oxide  
**C<sub>2</sub>H<sub>6</sub>** = ethane  
**C<sub>3</sub>H<sub>8</sub>** = 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  
**CH<sub>4</sub>** = methane  
**CIN** = control (equipment) identification number  
**CISWI** = commercial and industrial solid waste incineration  
**Cl<sub>2</sub>** = chlorine  
**CMP** = (Texas) Coastal Management Plan  
**CN** = customer ID number  
**CNG** = compressed natural gas  
**CO** = carbon monoxide  
**CO<sub>2</sub>** = carbon dioxide  
**COMS** = continuous opacity monitoring system  
**COS** = carbonyl sulfide  
**CPMS** = continuous parametric monitoring system  
**CR** = Central Registry  
**CRO** = Certification by Responsible Official  
**CS<sub>2</sub>** = 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<sub>x</sub>** = 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<sub>max</sub>** = 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<sub>max</sub>** = 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-**

**H<sub>2</sub>CO** = formaldehyde  
**H<sub>2</sub>S** = hydrogen sulfide  
**H<sub>2</sub>SO<sub>4</sub>** = 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 H<sub>2</sub>O** = 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<sub>L</sub>** = 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<sup>3</sup>** = million cubic meters  
**m** = meter  
**m<sup>3</sup>** = 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-**

**N<sub>2</sub>** = 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  
**NH<sub>3</sub>** = ammonia  
**NMOC** = non-methane organic carbon

**NNSR** = nonattainment new source review  
**NO<sub>2</sub>** = nitrogen dioxide  
**NO<sub>x</sub>** = 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-**

**O<sub>2</sub>** = oxygen  
**O<sub>3</sub>** = 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<sub>2.5</sub>** = particulate matter less than or equal to 2.5 microns in diameter

**PM<sub>10</sub>** = 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  
**SO<sub>2</sub>** = sulfur dioxide  
**SO<sub>4</sub>** = sulfates  
**SOB** = statement of basis  
**SOP** = site operating permit  
**SO<sub>x</sub>** = 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