

SUBCHAPTER 1. GENERAL PROVISIONS

252:100-1-3. Definitions

The following words and terms, when used in this Chapter, shall have the following meaning, unless the context clearly indicates otherwise or unless defined specifically for a Subchapter, section, or subsection in the Subchapter, section, or subsection.

"Act" means the Federal Clean Air Act, as amended, 42 U.S.C. 7401 *et seq.*

"Administrator" means, unless specifically defined otherwise, the Administrator of the United States Environmental Protection Agency (EPA) or the Administrator's designee.

"Air contaminant source" means any and all sources of emission of air contaminants; (pollutants), whether privately or publicly owned or operated, or person contributing to emission of air contaminants. Without limiting the generality of the foregoing, this term includes all types of business, commercial and industrial plants, works, shops and stores, heating and power plants or stations, buildings and other structures of all types.

"Air pollution abatement operation" means any operation which has as its essential purpose a significant reduction in:

- (A) the emission of air contaminants, or
- (B) the effect of such emission.

"Air pollution episode" means high levels of air pollution existing for an extended period (24 hours or more) of time which may cause acute harmful health effects during periods of atmospheric stagnation, without vertical or horizontal ventilation. This occurs when there is a high pressure air mass over an area, a low wind speed and there is a temperature inversion. Other factors such as humidity may also affect the episode conditions.

"Ambient air standards" or **"Ambient air quality standards"** means levels of air quality as codified in OAC 252:100-3.

"Atmosphere" means the air that envelops or surrounds the earth.

"Best available control technology" or **"BACT"** means the best control technology that is currently available as determined by the Division Director on a case-by-case basis, taking into account energy, environmental, and economic impacts and other costs of alternative control systems.

"Building, structure, facility, or installation" means all of the pollutant-emitting activities which belong to the same industrial grouping, are located on one or more contiguous or adjacent properties, and are under the control of the same person (or persons under common control). Pollutant-emitting activities shall be considered as part of the same industrial grouping if they belong to the same "Major Group" (i.e., which have the same two-digit code) as described in the Standard Industrial Classification Manual, 1972, as amended by the 1977 Supplement.

"Catalytic cracking unit" means a unit composed of a reactor, regenerator and fractionating towers which is used to convert certain petroleum fractions into more valuable products by passing the material through or commingled with a bed of catalyst in the reactor. Coke deposits produced on the catalyst during cracking are removed by burning off in the regenerator.

"Combustible materials" means any substance which will readily burn and shall include those substances which, although generally considered incombustible, are or may be included in the mass of the material burned or to be burned.

"Commence" means, unless specifically defined otherwise, that the owner or operator of a facility to which neither a NSPS or NESHAP applies has begun the construction or installation of the emitting units on a pad or in the final location at the facility.

"Complete" means in reference to an application for a permit, the application contains all the information necessary for processing the application. Designating an application complete for purposes of permit processing does not preclude the Director from requesting or accepting any additional information.

"Construction" means, unless specifically defined otherwise, fabrication, erection, or installation of a source.

"Crude oil" means a naturally occurring hydrocarbon mixture which is a liquid at standard conditions. It may contain sulfur, nitrogen and/or oxygen derivatives of hydrocarbon.

"Direct fired" means that the hot gasses produced by the flame or heat source come into direct contact with the material being processed or heated.

"Division" means Air Quality Division, Oklahoma State Department of Environmental Quality.

"Dust" means solid particulate matter released into or carried in the air by natural forces, by any fuel-burning, combustion, process equipment or device, construction work, mechanical or industrial processes.

"EPA" means the United States Environmental Protection Agency.

"Excess emissions" means the emission of regulated air pollutants in excess of an applicable limitation or requirement as specified in the applicable limiting Subchapter, permit, or order of the DEQ. This term does not include fugitive VOC emissions covered by an existing leak detection and repair program that is required by a federal or state regulation.

"Existing source" means, unless specifically defined otherwise, an air contaminant source which is in being on the effective date of the appropriate Subchapter, section, or paragraph of these rules.

"Facility" means all of the pollutant-emitting activities that meet all the following conditions:

(A) Are under common control.

(B) Are located on one or more contiguous or adjacent properties.

(C) Have the same two-digit primary SIC Code (as described in the Standard Industrial Classification Manual, 1987).

"Federally enforceable" means all limitations and conditions which are enforceable by the Administrator, including those requirements developed pursuant to 40 CFR Parts 60 and 61, requirements within any applicable State implementation plan, any permit requirements established pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51, subpart I, including operating permits issued under an EPA-approved program that is incorporated into the State implementation plan and expressly requires adherence to any permit issued under such program.

"Fuel-burning equipment" means any one or more of boilers, furnaces, gas turbines or other combustion devices and all appurtenances thereto used to convert fuel or waste to usable heat or power.

"Fugitive dust" means solid airborne particulate matter emitted from any source other than a stack or chimney.

"Fugitive emissions" means, unless specifically defined otherwise, those emissions which could not reasonably pass through a stack, chimney, vent, or other functionally equivalent opening.

"Fume" means minute solid particles generated by the condensation of vapors to solid matter after volatilization from the molten state, or generated by sublimation, distillation, calcination, or chemical reaction when these processes create airborne particles.

"Garbage" means all putrescible animal and vegetable matter resulting from the handling, preparation, cooking and consumption of food.

"Gross particulate matter" or "GPM" means particulate matter with an aerodynamic diameter greater than 10 micrometers.

"In being" means as used in the definitions of New Installation and Existing Source that an owner or operator has undertaken a continuous program of construction or modification or the owner or operator has entered into a binding agreement or contractual obligation to undertake and complete within a reasonable time a continuous program of construction or modification prior to the compliance date for installation as specified by the applicable regulation.

"Incinerator" means a combustion device specifically designed for the destruction, by high temperature burning, of solid, semi-solid, liquid, or gaseous combustible wastes and from which the solid residues contain little or no combustible material.

"Indirect fired" means that the hot gasses produced by the flame or heat source do not come into direct contact with the material, excluding air, being processed or heated.

"Installation" means an identifiable piece of process equipment.

"Lowest achievable emissions rate" or "LAER" means, for any source, the more stringent rate of emissions based on paragraphs (A) and (B) of this definition. This limitation, when applied to a modification, means the lowest achievable emissions rate for the new or modified emissions units within a stationary source. In no event shall the application of LAER allow a proposed new or modified stationary source to emit any pollutant in excess of the amount allowable under applicable standard of performance for the new source.

(A) LAER means the most stringent emissions limitation which is contained in the implementation plan of any State for such class or category of stationary source, unless the owner or operator of the proposed stationary source demonstrates that such limitations are not achievable, or

(B) LAER means the most stringent emissions limitation which is achieved in practice by such class or category of stationary sources.

"Major source" means any new or modified stationary source which directly emits or has the capability at maximum design capacity and, if appropriately permitted, authority to emit 100 tons per year or more of a given pollutant. (OAC 252:100-8, Part 3)

"Malfunction" means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

"Mist" means a suspension of any finely divided liquid in any gas or atmosphere excepting uncombined water.

"Modification" means any physical change in, or change in the method of operation of, a source which increases the amount of any air pollutant emitted by such source or which results in the emission of any air pollutant not previously emitted, except that:

(A) routine maintenance, repair and replacement shall not be considered physical changes; and,

(B) the following shall not be considered a change in the method of operation:

(i) any increase in the production rate, if such increase does not exceed the operating design capacity of the source;

(ii) an increase in hours of operation;

(iii) use of alternative fuel or raw material if, prior to the date any standard under this part becomes applicable to such source the affected facility is designed to accommodate such alternative use.

"National Emission Standards for Hazardous Air Pollutants" or **"NESHAP"** means those standards found in 40 CFR Parts 61 and 63.

"New installation", **"New source"**, or **"New equipment"** means an air contaminant source which is not in being on the effective date of these regulations and any existing source which is modified, replaced, or reconstructed after the effective date of the regulations such that the amount of air contaminant emissions is increased.

"New Source Performance Standards" or **"NSPS"** means those standards found in 40 CFR Part 60.

"Nonmethane organic compounds" or **"NMOC"** means nonmethane organic compounds, as defined in 40 CFR 60.754.

"Opacity" means the degree to which emissions reduce the transmission of light and obscure the view of an object in the background.

"Open burning" means the burning of combustible materials in such a manner that the products of combustion are emitted directly to the outside atmosphere.

"Organic compound" means any chemical compound containing the element carbon.

"Owner or operator" means any person who owns, leases, operates, controls or supervises a source.

"Part 70 permit" means (unless the context suggests otherwise) any permit or group of permits covering a Part 70 source that is issued, renewed, amended, or revised pursuant to this Chapter.

"Part 70 program" means a program approved by the Administrator under 40 CFR Part 70.

"Part 70 source" means any source subject to the permitting requirements of Part 5 of Subchapter 8, as provided in OAC 252:100-8-3(a) and (b).

"PM-10 emissions" means particulate matter emitted to the ambient air with an aerodynamic diameter of 10 micrometers or less as measured by applicable reference methods, or an equivalent or alternative method.

"PM-10" means particulate matter with an aerodynamic diameter of 10 micrometers or less.

"PM-2.5" means particulate matter with an aerodynamic diameter of 2.5 micrometers or less.

"Particulate matter" or **"PM"** means any material that exists in a finely divided form as a liquid or a solid.

"Particulate matter emissions" means particulate matter emitted to the ambient air as measured by applicable reference methods, or an equivalent or alternative method.

"Potential to emit" means the maximum capacity of a source to emit a pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the source to emit a pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation or the effect it would have on emissions is enforceable. Secondary emissions do not count in determining the potential to emit of a source.

"Prevention of significant deterioration" or **"PSD"** means increments for the protection of attainment areas as codified in OAC 252:100-3.

"Process equipment" means any equipment, device or contrivance for changing any materials or for storage or handling of any materials, the use or existence of which may cause any discharge of air contaminants into the open air, but not including that equipment specifically defined as fuel-burning equipment, or refuse-burning equipment.

"Process weight" means the weight of all materials introduced in a source operation, including solid fuels, but excluding liquids and gases used solely as fuels, and excluding air introduced for the purposes of combustion. Process weight rate means a rate established as follows:

(A) for continuous or long-run, steady-state, operations, the total process weight for the entire period of continuous operation or for a typical portion thereof, divided by the number of hours of such period or portion thereof.

(B) for cyclical or batch source operations, the total process weight for a period which covers a complete or an integral number of cycles, divided by the hours of actual process operation during such period.

(C) where the nature of any process or operation or the design of any equipment is such as to permit more than one interpretation of this definition, that interpretation which results in the minimum value for allowable emission shall apply.

"Reasonably available control technology" or **"RACT"** means devices, systems, process modifications, or other apparatus or techniques that are reasonably available taking into account:

(A) The necessity of imposing such controls in order to attain and maintain a national ambient air quality standard;

(B) The social, environmental, and economic impact of such controls; and

(C) Alternative means of providing for attainment and maintenance of such standard.

"Reconstruction" means

(A) the replacement of components of an existing source to the extent that will be determined by the Executive Director based on:

(i) the fixed capital cost (the capital needed to provide all the depreciable components of the new components exceeds 50 percent of the fixed capital cost of a comparable entirely new source);

(ii) the estimated life of the source after the replacements is comparable to the life of an entirely new source; and,

(iii) the extent to which the components being replaced cause or contribute to the emissions from the source.

(B) a reconstructed source will be treated as a new source for purposes of OAC 252:100-8, Part 9.

"Refinery" means any facility engaged in producing gasoline, kerosene, fuel oils or other products through distillation of crude oil or through redistillation, cracking, or reforming of unfinished petroleum derivatives.

"Refuse" means, unless specifically defined otherwise, the inclusive term for solid, liquid or gaseous waste products which are composed wholly or partly of such materials as garbage, sweepings, cleanings, trash, rubbish, litter, industrial, commercial and domestic solid, liquid or gaseous waste; trees or shrubs; tree or shrub trimmings; grass clippings; brick, plaster, lumber or other waste resulting from the demolition, alteration or construction of buildings or structures; accumulated waste material, cans, containers, tires, junk or other such substances.

"Refuse-burning equipment" means any equipment, device, or contrivance, and all appurtenances thereto, used for the destruction of combustible refuse or other combustible wastes by burning.

"Regulated air pollutant" means any substance or group of substances listed in Appendix P of this Chapter, or any substance regulated as an air pollutant under any federal regulation for which the Department has been given authority, or any other substance for which an air emission limitation or equipment standard is set by an enforceable permit.

"Responsible official" means one of the following:

(A) For a corporation: a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall production, or operating facilities applying for or subject to a permit and either:

- (i) The facilities employ more than 250 persons or have gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars); or
- (ii) The delegation of authority to such representatives is approved in advance by the DEQ;

(B) For the partnership or sole proprietorship: a general partner or the proprietor, respectively;

(C) For a municipality, state, federal, or other public agency: Either a principal executive officer or ranking elected official. For purposes of this Chapter, a principal executive officer or installation commander of a federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of EPA); or

(D) For affected sources:

- (i) The designated representative insofar as actions, standards, requirements, or prohibitions under Title IV of the Act or the regulations promulgated thereunder are concerned; and
- (ii) The designated representative for any other purposes under this Chapter.

"Shutdown" means the cessation of operation of any process, process equipment, or air pollution control equipment.

"Smoke" means small gas-borne or air-borne particles resulting from combustion operations and consisting of carbon, ash, and other matter any or all of which is present in sufficient quantity to be observable.

"Source operation" means the last operation preceding the emission of an air contaminant, which operation:

(A) results in the separation of the air contaminant from the process materials or in the conversion of the process materials into air contaminants, as in the case of combustion of fuel; and,

(B) is not an air pollution abatement operation.

"Stack" means, unless specifically defined otherwise, any chimney, flue, duct, conduit, exhaust, pipe, vent or opening, excluding flares, designed or specifically intended to conduct emissions to the atmosphere.

"Standard conditions" means a gas temperature of 68 degrees Fahrenheit (20° Centigrade) and a gas pressure of 14.7 pounds per square inch absolute.

"Startup" means the setting into operation of any process, process equipment, or air pollution control equipment.

"Stationary source" means, unless specifically defined otherwise, any building, structure, facility, or installation either fixed or portable, whose design and intended use is at a fixed location and emits or may emit an air pollutant subject to OAC 252:100.

"Total Suspended Particulates" or **"TSP"** means particulate matter as measured by the high-volume method described in Appendix B of 40 CFR Part 50.

"Temperature inversion" means a phenomenon in which the temperature in a layer of air increases with height and the cool heavy air below is trapped by the warmer air above and cannot rise.

"Visible emission" means any air contaminant, vapor or gas stream which contains or may contain an air contaminant which is passed into the atmosphere and which is perceptible to the human eye.

"Volatile organic compound" or **"VOC"** means any organic compound that participates in atmospheric photochemical reactions resulting in the formation of tropospheric ozone. Carbon monoxide, carbon dioxide, carbonic acid, metallic carbides, ammonium carbonates, tert-butyl acetate and compounds listed in 40 CFR 51.100(s)(1) are presumed to have negligible photochemical reactivity and are not considered to be VOC.

252:100-1-4. Units, abbreviations and acronyms

(a) Abbreviations and symbols of units of measure.

- (1) Btu - British thermal unit
- (2) cm/sec - centimeter per second
- (3) dscf - dry cubic feet at standard conditions
- (4) dscm - dry cubic meter at standard conditions
- (5) ft/min - feet per minute
- (6) gal - gallon
- (7) gal/d - gallons per day
- (8) gal/yr - gallons per year
- (9) gr/dscf - grains per dry standard cubic foot

- (10) hr - hour
- (11) Hg - mercury
- (12) hp - horsepower
- (13) H₂O - water
- (14) H₂S - hydrogen sulfide
- (15) H₂SO₄ - sulfuric acid
- (16) kg - kilogram
- (17) kg/metric ton - kilograms per metric ton
- (18) kPa - kilopascals
- (19) l - liter
- (20) l/yr - liters per year
- (21) LT/D - long tons per day
- (22) lb/wk - pounds per week
- (23) lb - pound
- (24) lbs/hr - pounds per hour
- (25) m³ - cubic meter
- (26) mg/dscm - milligrams per dry standard cubic meter
- (27) MMBTU/hr - ~~heat input in~~ million british thermal units per hour
- (28) Mg - megagram - 106 gram
- (29) Mg/yr - megagrams per year
- (30) mg/l - milligrams per liter
- (31) m/min - meter per minute
- (32) ng/dscm - nanograms per dry standard cubic meter
- (33) ng/J - nanograms per Joule
- ~~(33)~~(34) oz/in² - ounce per square inch
- ~~(34)~~(35) ppm - parts per million
- ~~(35)~~(36) psia - pounds per square inch absolute
- ~~(36)~~(37) psig - pounds per square inch gage
- ~~(37)~~(38) ppmv - parts per million by volume
- ~~(38)~~(39) SO₂ - sulfur dioxide
- ~~(39)~~(40) TPY - tons per year
- ~~(40)~~(41) ug/m³ - micrograms per cubic meter

(b) Acronyms.

- (1) A.I.S.I. - American Iron and Steel Institute
- (2) A.S.M.E. - American Society of Mechanical Engineers
- (3) A.S.T.M. - American Society for Testing and Materials
- (4) BACT - Best Available Control Technology
- (5) CEM - Continuous Emission Monitor
- (6) CFR - Code of Federal Regulations
- (7) COM - Continuous Opacity Monitor
- (8) DEQ - Department of Environmental Quality
- (9) EPA - Environmental Protection Agency
- (10) HAP - Hazardous Air Pollutants
- (11) HMIWI - Hospital/Medical/Infectious Waste Incinerator

- (12) MACT - Maximum Achievable Control Technology
- (13) MSW - Municipal Solid Waste
- (14) MWC - Municipal Waste Combustors
- (15) NAAQS - National Ambient Air Quality Standards
- (16) NESHAP - National Emissions Standards for Hazardous Air Pollutants
- (17) NSPS - New Source Performance Standards
- (18) OAC - Oklahoma Administrative Code
- (19) PBR - Permit by Rule
- (20) PM - Particulate Matter
- (21) PSD - Prevention of Significant Deterioration
- (22) SIC - Standard Industrial Classification
- (23) SIP - State Implementation Plan
- (24) TSP - Total Suspended Particulates
- (25) VOC - Volatile Organic Compound
- (26) 27A O.S. - Title 27A Oklahoma Statutes Annotated