

APPENDIX H. DE MINIMIS ~~FACILITIES~~ ACTIVITIES

This appendix is to be used in conjunction with Subchapter 7 for minor facilities and is not to be used for purposes of Part 70 permitting as contained in Subchapter 8. Any activity to which a source-specific State or federal applicable requirement applies is not de minimis even if it is include on this list. No source owner and/or operator may omit emissions from de minimis activities from emissions calculations to determine if a stationary source is permit exempt, or subject to minor or Part 70 source permitting.

(A) AGRICULTURAL

- (1) Lawn care
- (2) Weed control
- (3) Pest control
- (4) Farming operations, except open burning (see 252:100-13) and volatile organic compound ("VOC") storage (see Storage)
- (5) Nursery/greenhouse operations
- (6) Portable fertilizer plants with a maximum capacity of 1 ton/hour

(B) ANALYSIS/TESTING

- (1) Hydraulic or hydrostatic testing including pipe, casing and vessel pneumatic testing facilities
- (2) Site assessment work, including but not limited to, the evaluation of waste disposal or remediation sites
- (3) Instrument systems utilizing air or natural gas
- (4) Environmental field sampling operations
- (5) Compressed gas cylinders and gases utilized for equipment calibration and testing
- (6) Field laboratory units conducting on-site testing or analysis of materials
- (7) Science laboratories used for the purposes of teaching and research at educational institutions

(C) ANIMALS

- (1) Animal kennels and veterinary clinics
- (2) Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating

(D) BATTERY CHARGING

- (1) Battery recharging areas
- (2) Industrial battery recharging and maintenance operations for batteries utilized within the facility only
- (3) Backup power batteries

(E) BLOWDOWNS

- (1) Blowdown of compressors or other vessels containing natural gas or liquid hydrocarbons for maintenance due to emergency circumstances
- (2) Blowdown from compressed air lines

(F) CLEANING & SURFACE PREPARATION

- (1) Cold degreasing (non-conveyORIZED) operations utilizing nonhalogenated solvents, where the vapor pressure of the solvents used never exceeds 2 kPa (15 mmHg or 0.3 psi) measured at 38 °C (100 °F) or 0.7 kPa (5 mmHg or 0.1 psi) at 20 °C (68 °F). ~~that are denser than air and/or that are covered when not in use.~~ Must not be located in Tulsa or Oklahoma Counties (see OAC 252:100-39-42) nor subject to any federal standard.
- (2) Solvent usage for spot cleaning and maintenance purposes not to exceed 1 gallon/month
- (3) Emissions from laundry care equipment processing of bedding, clothing or other fabric items. These include dryers, extractors, & tumblers. **NOT CLEANING OPERATIONS USING PERCHLOROETHYLENE OR PETROLEUM SOLVENTS** (i.e., dry cleaning)
- (4) Alkaline/phosphate washers and associated burners
- (5) Acid washing (maintenance cleaning)
- (6) Caustic washing (maintenance cleaning)
- (7) Water washing or blasting
- (8) Washing of mobile sources including aircraft
- (9) Carbon dioxide blasting equipment in degreasing or depainting
- (10) High pressure water depainting operations and aqueous industrial spray washers
- (11) Vacuum cleaning systems used exclusively for industrial, commercial, or residential housekeeping purposes, except those systems used to collect particulate matter subject to 252:100 and hazardous and/or toxic air contaminants Equipment used for portable steam cleaning
- (12) Machine blowdown with air for cleaning/maintenance

- (13) Ultrasonic cleaning operations which do not utilize volatile organic compounds
- (14) Natural gas water heating systems for fixed vehicle wash racks
- (15) Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam
- (16) Commercial laundries (excluding dry cleaners)

(G) COMBUSTION EQUIPMENT

- (1) Space heaters and boilers less than 10 MMBTU/hr heat input, burning fossil fuels, other than coal and wood, including unit space heaters that burn waste oil generated on site.
- (2) Emissions from non-natural gas fueled stationary internal combustion engines rated less than 50 hp output, total for the facility
- (3) Emissions from gas turbines with less than 215 kilowatt rating of electric output, total for the facility
- (4) Natural gas fueled internal combustion engines rated <150 hp total for the facility and <20 years old
- (5) Emergency use equipment, unless utilized in excess of 500 hours per year for the entire facility, and associated fuel storage tankage
- (6) Stationary or portable internal combustion engines which are temporarily located at a true minor facility for a period not to exceed 60 days per calendar year.

(H) FUGITIVES FUGITIVE EMISSIONS

- (1) Landfills and land farms unless otherwise regulated by an applicable state or federal regulation.
- (2) Seal replacement (e.g., manhole gaskets)
- (3) Roof coating, service, and repair including tar and asphalt roofing operations
- (4) Paving (excluding asphalt plants) of roads, parking lots, and other areas, except in Tulsa and Oklahoma Counties (see OAC 252:100-39-40)
- (5) Vent emissions from gas streams used as buffer or seal gas in rotating pump and compressor seals
- (6) Natural gas odorizing activities

- | (7) Pneumatic starters on reciprocating engines, turbines, compressors, or other equipment
- | (8) Gas or other flares used solely to indicate danger to the public (e.g. road hazard)
- | (9) Warehouse activities including the storage of packaged raw materials and finished goods
- | (10) Non-routine cleaning of tanks, lift stations, and equipment for the purposes of worker entry or in preparation for maintenance or decommissions
- | (11) Unpaved roadways and parking areas
- | (12) Gravel, sand and dirt storage for use in on-site construction projects unless part of a nonmetallic processing plant subject to 40 CFR Part 60, Subpart 000
- | (13) Materials, e.g., pharmaceuticals and disinfectants, used by an infirmary or clinic to care for the human or animal patients at the facility
- | (14) Fugitive emissions of jet fuels associated with aircraft fuel cell and fuel bladder repair
- | (15) Automobile/truck repair/maintenance excluding those with paint booths or those that use halogenated solvents and are subject to 40 CFR Part 63 Subpart T

| **(I) INSULATION**

- | (1) Installation or removal of non-asbestos insulation
- | (2) Repair and replacement of non-asbestos refractory & insulation

| **(J) LUBRICATING**

- | (1) Lubricating pumps, sumps, and systems
- | (2) Engine crankcase vents and equipment lubricating sumps

| **(K) MAINTENANCE**

- | (1) Welding, brazing, soldering for maintenance purposes
- | (2) Use of adhesives, glues, etc. for maintenance purposes
- | (3) Grinding, cutting, sanding of non-asbestos materials for maintenance purposes
- | (5) Pipeline maintenance pigging activities
- | (6) General maintenance, upkeep, and replacement activities, including those ~~which~~ that do not alter the capacity of process, combustion or

control equipment nor increase regulated pollutant emissions, unless subject to NESHAP or NSPS

(L) METALS

- (1) Equipment used for inspection of metal products
- (2) Die casting machines
- (3) Foundry sand mold forming equipment to which no heat is applied, and from which no organics are emitted
- (4) Equipment used exclusively for wire drawing either hot or cold metals
- (5) Retail machine tool and die operations

(M) MISCELLANEOUS

- (1) Exhaust systems for chemical, paint, and/or solvent storage rooms or cabinets, including hazardous waste satellite (accumulation) areas.
- (2) Exhaust from food preparation for on-site/off-site human consumption (e.g. restaurants, fast food) or on-site retail sale
- (3) Blue-line (blue-print) facilities
- (4) Electrically operated bake-off ovens with a maximum capacity of 12 tons/hr for the entire facility
- (5) Natural gas fired bake-off ovens and pottery kilns with a maximum capacity of 0.8 ton/hr for the entire facility
- (6) Grinding of solid surfaces that do not contain asbestos if done in water where particles are captured
- (7) Aerosol can spraying for miscellaneous use
- (8) On-site construction of residential/commercial buildings

(N) MOBILE SOURCES

- (1) Mobile source emissions from cars, trucks, forklifts, courier vehicles, front loaders, graders, cranes, carts, hydrostatic and hydraulic testing equipment, maintenance trucks, helicopters, locomotives, marine vessels, portable generators (that are moveable by hand), portable pumps, portable air compressors, portable welding machines, and portable fuel tanks
- (2) Other on and off road mobile sources (i.e. coal stacker & reclaimer)

- (3) Aircraft ground support equipment (AGE), including but not limited to portable power generators, lights, HVAC support, and aircraft refueling equipment
- (4) Vehicle exhaust from maintenance or repair shops
- (5) Aircraft movement, including on-ground engine run-ups, take-offs, landings, touch and go landings and in flight fuel jettisoning
- (6) Road sanding and salting operations
~~Mobile abrasive blasters~~

(O) OFFICE & JANITORIAL

- (1) Janitorial services
- (2) Sweeping of floors (including the use of spill clean-up products such as Floor Sweep®)
- (3) Business offices (photocopying, blueprint copying, photographic processes, etc.)
- (4) Cleaning, polishing, and housekeeping activities associated with custodial duties
- (5) Retail copying services

(P) OUTDOOR & RECREATIONAL

- (1) Outdoor recreational emissions (campfires, barbecue pits)
- (2) Outdoor non-plumbed restroom facilities (port-a-potties)
- (3) Outdoor kerosene heaters or lamps

(Q) PLASTICS/FIBERGLASS

- (1) Plastic or fiberglass repair

(R) RESIDENTIAL

- (1) Space heaters, boilers, fireplaces for heat & recreation, hot water heaters, stoves, ovens, gas dryers and other appliances with less than or equal to 5 MMBTU/hr heat input
- (2) Heating, air conditioning and ventilation systems
- (3) Residential housing units and multifamily dwellings to include fuel burning for heating, except prohibited open burning
- (4) Stacks or vents to prevent escape of sewer gases from domestic waste through plumbing traps
- (5) Residential LPG tanks

(S) SOLID WASTE

- (1) Municipal Solid Waste disposal containers, e.g. dumpsters

- (2) Any closed municipal solid waste landfill that did not accept waste after 11/8/87 or which has no additional capacity to accept waste in the future.
- (3) RCRA Solid Waste Management Units subject to 40 CFR Part 265, Subparts AA, BB, & CC
- (4) Composting operations
- (5) Construction and demolition waste landfills
- (6) Municipal solid waste transfer stations
- (7) Waste recycling, collection, sorting and baling facilities (e.g., aluminum, paper, glass, plastic, etc.)

(T) STORAGE

- (1) Lube oil, seal oil, or hydraulic fluid storage tanks and equipment as long as not emitting VOCs or HAPs
- (2) Fuel/VOC storage tanks with less than 400 gallons capacity, or fuel/VOC storage tanks with less than 10,567 gallons capacity built after July 23, 1984, or tanks storing fuel/VOC that has a true vapor pressure at storage conditions less than 1.5 psia. This includes Fuel Oils Nos. 2 - 6, Nos. 2-GO - 4-GO, Diesel Fuel Oils Nos. 2-D - 4-D, and Kerosene.
- (3) Storage and use of chemicals unless otherwise regulated by an applicable state or federal regulation
- (4) Storage and use of products or equipment for maintaining motor vehicles operated at the site (including but not limited to antifreeze and fuel additives) not regulated under Title VI, CFC rules)
- (5) Tanks containing separated water produced from oil and gas operations
- (6) Retail/commercial gasoline dispensing stations unless otherwise covered by applicable state and federal regulations
- (7) Lubricants and waxes used for machinery and other equipment lubrication and lubricating oil or hydraulic fluid storage tanks and equipment
- (8) Runway and aircraft de-icing activities, including de-icer storage tanks unless otherwise regulated
- (9) Oxygen storage tanks and associated equipment
- (10) Storage tanks, reservoirs, and pumping and handling equipment of any size which contain

soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized

| (11) Crude oil tank bottom reclaiming

| **(U) SURFACE COATING**

| (1) Surface coating for maintenance purposes

| (2) Commercial mobile painting operations

| (3) Residential painting/surface coating

| **(V) WASTEWATER**

| (1) Removal of basic sediment & water from collection/storage systems (i.e., clarifiers)

| (2) Removal of sludge or sediment from pits, ponds, sumps, or wastewater conveyance channels

| (3) Application of industrial and/or municipal wastewater and sludges at land farms

| (4) Ozonation process or process equipment including ozone generation for water treatment processes

| (5) Sanitary sewerage and storm water runoff collection systems

| (6) Commercial truck/car washes that use water and solvents

| (7) Septic tank systems

| **(W) WOODWORKING**

| (1) Portable wood chipping operations

| (2) Woodworking (shaping, staining & varnishing) utilized for hobby purposes or maintenance of grounds or buildings