

## APPENDIX H. DE MINIMIS ACTIVITIES [NEW]

This appendix is to be used in determining if a facility is a de minimis facility as provided for in Subchapter 7. It is not to be used for purposes of any Subchapter 8 permit.

### (1) AGRICULTURAL

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

### (2) ANALYSIS/TESTING

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

### (3) ANIMALS

- (a) Animal kennels and veterinary clinics
- (b) 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

### (4) BATTERY CHARGING

- (a) Battery recharging areas
- (b) Backup power batteries
- (c) Industrial battery recharging and maintenance operations for batteries utilized within the facility only

**(5) BLOWDOWNS**

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

**(6) CLEANING & SURFACE PREPARATION**

- (a) Alkaline/phosphate washers and associated burners
- (b) Acid washing (maintenance cleaning)
- (c) Carbon dioxide blasting equipment in degreasing or depainting
- (d) Caustic washing (maintenance cleaning)
- (e) Cold degreasing operations utilizing nonhalogenated solvents 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.
- (f) Commercial laundries (excluding dry cleaners)
- (g) 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
- (h) 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)
- (i) Equipment used for portable steam cleaning
- (j) High pressure water depainting operations and aqueous industrial spray washers
- (k) Machine blowdown with air for cleaning/maintenance
- (l) Natural gas water heating systems for fixed vehicle wash racks
- (m) Solvent usage for spot cleaning and maintenance purposes not to exceed 1 gallon/month
- (o) Ultrasonic cleaning operations which do not utilize volatile organic compounds
- (p) 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
- (q) Washing of mobile sources including aircraft
- (r) Water washing or blasting

**(7) COMBUSTION EQUIPMENT**

- (a) Emergency use equipment, unless utilized in excess of 500 hours per year, and associated fuel storage tankage
- (b) Emissions from gas turbines with less than 215 kilowatt rating of electric output
- (c) Emissions from non-natural gas fueled stationary internal combustion engines rated less than 50 hp output
- (d) Natural gas fueled internal combustion engines rated <150 hp and <20 years old
- (e) Space heaters and boilers less than 10 MMBTU/hr heat input

**(8) FUGITIVES**

- (a) 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
- (b) Fugitive emissions of jet fuels associated with aircraft fuel cell and fuel bladder repair
- (c) Gas or other flares used solely to indicate danger to the public (e.g. road hazard)
- (d) 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
- (e) Landfills and land farms unless otherwise regulated by an applicable state or federal regulation.
- (f) Materials, e.g., pharmaceuticals and disinfectants, used by an infirmary or clinic to care for the human or animal patients at the facility
- (g) Natural gas odorizing activities
- (h) Non-routine cleaning of tanks, lift stations, and equipment for the purposes of worker entry or in preparation for maintenance or decommissions
- (i) Pneumatic starters on reciprocating engines, turbines, compressors, or other equipment
- (j) Paving (excluding asphalt plants) of roads, parking lots, and other areas, except in Tulsa and Oklahoma Counties (see OAC 252:100-39-40)
- (k) Roof coating, service, and repair including tar and asphalt roofing operations
- (l) Seal replacement (e.g., manhole gaskets)
- (m) Unpaved roadways and parking areas
- (n) Vent emissions from gas streams used as buffer or seal gas in rotating pump and compressor seals
- (o) Warehouse activities including the storage of packaged raw materials and finished goods

**(9) INSULATION**

- (a) Installation or removal of non-asbestos insulation
- (b) Repair and replacement of non-asbestos refractory & insulation

**(10) LUBRICATING**

- (a) Engine crankcase vents and equipment lubricating sumps
- (b) Lubricating pumps, sumps, and systems

**(11) MAINTENANCE**

- (a) General maintenance, upkeep, and replacement
- (b) Grinding, cutting, sanding of non-asbestos materials for maintenance purposes
- (c) Pipeline maintenance pigging activities activities, including those which do not alter the capacity of process, combustion or control equipment nor increase regulated pollutant emissions, unless subject to NESHAP or NSPS
- (d) Use of adhesives, glues, etc. for maintenance purposes
- (e) Welding, brazing, soldering for maintenance purposes

**(12) METALS**

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

**(13) MISCELLANEOUS**

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

**(14) MOBILE SOURCES**

- (a) Aircraft ground support equipment (AGE), including but not limited to portable power generators, lights, HVAC support, and aircraft refueling equipment
- (b) Aircraft movement, including on-ground engine run-ups, take-offs, landings, touch and go landings and inflight fuel jettisoning
- (c) Mobile abrasive blasters
- (d) 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
- (e) Other on and off road mobile sources (i.e. coal stacker & reclaimer)
- (f) Road sanding and salting operations
- (g) Vehicle exhaust from maintenance or repair shops

**(15) OFFICE & JANITORIAL**

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

**(16) OUTDOOR & RECREATIONAL**

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

**(17) PLASTICS/FIBERGLASS**

- (a) Plastic or fiberglass repair

**(18) RESIDENTIAL**

- (a) Heating, air conditioning and ventilation systems
- (b) Residential housing units and multifamily dwellings to include fuel burning for heating, except prohibited open burning
- (c) Residential LPG tanks
- (d) 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
- (e) Stacks or vents to prevent escape of sewer gases from domestic waste through plumbing traps

**(19) SOLID WASTE**

- (a) 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.
- (b) Composting operations
- (c) Construction and demolition waste landfills
- (d) Municipal Solid Waste disposal containers, e.g. dumpsters
- (e) Municipal solid waste transfer stations
- (f) RCRA Solid Waste Management Units subject to 40 CFR Part 265, Subparts AA, BB, & CC
- (g) Waste recycling, collection, sorting and baling facilities (e.g., aluminum, paper, glass, plastic, etc.)

**(20) STORAGE**

- (a) Crude oil tank bottom reclaiming
- (b) 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.
- (c) Lube oil, seal oil, or hydraulic fluid storage tanks and equipment as long as not emitting VOCs or HAPs
- (d) Lubricants and waxes used for machinery and other equipment lubrication and lubricating oil or hydraulic fluid storage tanks and equipment
- (e) Oxygen storage tanks and associated equipment
- (f) Retail/commercial gasoline dispensing stations unless otherwise covered by applicable state and federal regulations
- (g) Runway and aircraft de-icing activities, including de-icer storage tanks unless otherwise regulated
- (h) Storage and use of chemicals unless otherwise regulated by an applicable state or federal regulation
- (i) 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)
- (j) 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
- (k) Tanks containing separated water produced from oil and gas operations

**(21) SURFACE COATING**

- (a) Commercial mobile painting operations
- (b) Residential painting/surface coating
- (c) Surface coating for maintenance purposes

**(22) WASTEWATER**

- (a) Application of industrial and/or municipal wastewater and sludges at land farms
- (b) Commercial truck/car washes that use water and solvents
- (c) Ozonation process or process equipment including ozone generation for water treatment processes
- (d) Removal of basic sediment & water from collection/storage systems (i.e., clarifiers)
- (e) Removal of sludge or sediment from pits, ponds, sumps, or wastewater conveyance channels
- (f) Sanitary sewerage and storm water runoff collection systems
- (g) Septic tank systems

**(23) WOODWORKING**

- (a) Portable wood chipping operations
- (b) Woodworking (shaping, staining & varnishing) utilized for hobby purposes or maintenance of grounds or buildings