FILE NAME: Marley (MAR)

DATE: 1975

DOC#: MAR007

DOCUMENT DESCRIPTION: State Air Laws-Kentucky Regulations

NOV 3 1975 THE BUREAU OF NATIONAL AFFAIRS, INC. 386:0511

toxic materials shall give the utmost care and consideration to the potential harmful effects of the emissions resulting from such activities. Evaluation of such facilities as to adequacy, and emission potential will be made on an individual basis by the department.

Section 4. Emission Standard for Asbestos.

(1) Applicability. The provisions of this section are applicable to those sources specified in subsection (3) of this section.

(2) Definitions. Terms used in this section not defined herein shall have the meaning given to them in 401 KAR 3:010 and in Section 2 of this regulation:

(a) "Asbestos" means actinolite, anosite, anthophylite, chrysotile, crocidolite, tremolite.

(b) "Asbestos material" means asbestos or any material containing asbestos.

(c) "Particulate asbestos material" means finely divided particles of asbestos material.

(d) "Asbestos tailings" means any solid waste product of asbestos mining or milling operations which contains asbestos.

(e) "Outside air" means the air outside buildings and structures.

(f) "Visible emissions" means any emissions which are visually detectable without the aid of instruments and which contain particulate asbestos material.

(g) "Asbestos mill" means any facility engaged in the conversion or any intermediate step in the conversion of asbestos ore into commercial asbestos. Outside storage of asbestos materials is not considered a part of such facility.

(h) "Commercial asbestos" means any variety of asbestos which is produced by extracting asbestos from asbestos ore.

(i) "Manufacturing" means the combining of commercial asbestos, or in the case of woven friction products the combining of textiles containing commercial asbestos, with any other material(s), including commercial asbestos, and the processing of this combination into a product as specified in subsection (3) (c) of this section.

(j) "Demolition" means the wrecking or removal of any load-supporting structural member.

(3) Emission Standard:

(a) Asbestos mills: There shall be no visible emissions to the outside air from any asbestos mill except as provided in paragraph (f) of this subsection.

(b) Roadways: The surfacing of roadways with asbestos tailings is prohibited, except for temporary roadways on an area of asbestos ore deposits. The deposition of asbestos tailings on roadways covered with snow or ice is considered "surfacing."

(c) Manufacturing: There shall be no visible emissions to the outside air, except as provided in paragraph (f) of this subsection, from any building or structure in which the following operations are conducted outside of buildings or structures:

1. The manufacture of cloth, cord, wicks, tubing, tape, twine, rope, thread, yarn, roving, lap or other textile materials.
2. The manufacture of cement products.
3. The manufacture of fireproofing and insulating materials.
4. The manufacture of friction products.
5. The manufacture of paper, millboard, and felt.
6. The manufacture of floor tile.
7. The manufacture of paints, coatings, caulks, adhesives, sealants.
8. The manufacture of plastics and rubber materials.
9. The manufacture of chlorine.

(d) Demolition: Any owner or operator of a demolition operation who intends to demolish any institutional, commercial, or industrial building (including apartment buildings having more than four (4) dwelling units), structure, facility, installation, or portion thereof which contains any boiler, pipe, or load-supporting structural member that is insulated or fireproofed with friable asbestos material shall comply with the requirements set forth in this subsection.

1. Notice of intention to demolish shall be provided to the department by the owner or operator of the demolition operation. Such notice shall be postmarked at least ten (10) days prior to commencement of demolition or anytime prior to commencement of demolition subject to paragraph (d) 4. of this subsection.

2. Such notice shall include the following information:

a. Name of owner or operator.

b. Address of owner or operator.

c. Description of the building, structure, facility, or installation to be demolished.

d. Address or location of the building, structure, facility or installation.

e. Scheduled starting and completion dates of demolition.

f. Method of demolition to be employed.

g. Procedures to be employed to meet the requirements of this section.

3. The following procedures shall be used to prevent emissions of particulate asbestos material to outside air:

a. Friable asbestos materials, used to insulate or fireproof any boiler, pipe, or load-supporting structural member, shall be wetted and removed from any building, structure, facility, or installation subject to this subsection before wrecking of load-supporting structural members is commenced. Boilers, pipe, or load-supporting structural members that are insulated or fireproofed with friable asbestos materials may be removed as units or in sections, without stripping or wetting, except that where the boiler, pipe or load-supporting structural member is cut or disjointed, the exposed friable asbestos materials shall be wetted. Friable asbestos debris shall be wetted adequately to insure that such debris remains wet during all stages of demolition and related handling operations.

b. No pipe or load-supporting structural member that is covered with friable asbestos insulating or fireproofing material shall be dropped or thrown to the ground from any building, structure, facility, or installation subject to this subsection, but shall be carefully lowered or taken to ground level.

c. No friable asbestos debris shall be dropped or thrown to the ground from any building, structure, facility, or installation subject to this paragraph or from any floor to any floor below. For buildings, structures, facilities, or installations, fifty (50) feet or greater in

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...ght, friable asbestos debris shall be transported to the ground via dust-tight chutes or containers.

4. Any owner or operator of a demolition operation who intends to demolish a building, structure, facility, or installation to which the provisions of this subsection would be applicable but which has been declared by proper state or local authority to be structurally unsound and which is in danger of imminent collapse is exempt from the requirements of this section other than the reporting requirements specified by paragraph (d) 1. of this subsection and the wetting of friable asbestos debris as specified by paragraph (d) 3.a. of this subsection.

(e) Spraying: There shall be no visible emissions to the outside air from the spray-on application of materials containing more than one (1) percent asbestos, on a dry weight basis, used to insulate or fireproof equipment and machinery, except as provided in paragraph (f) of this subsection. Spray-on materials used to insulate or fireproof buildings, structures, pipes and conduits shall contain less than 1 percent asbestos on a dry weight basis. Any owner or operator who intends to spray asbestos materials to insulate or fireproof buildings, structures, pipes, conduits, equipment, and machinery shall report such intention to the department at least twenty (20) days prior to the commencement of the spraying operation. Such report shall include the following information:

1. Name of owner or operator.
2. Address of owner or operator.
3. Location of spraying operation.
4. Procedures to be followed to meet the requirements of this paragraph.

(f) Rather than meet the no-visible-emission requirements of paragraph (a), (c) and (e) of this subsection an owner or operator may elect to use the methods specified by subsection (4) of this section to clean emissions containing particulate asbestos material before such emissions escape to, or are vented to, the outside air.

(g) Where the presence of uncombined water is the sole reason for failure to meet the no-visible-emission requirement of paragraphs (a), (c) or (e) of this subsection, such failure shall not be a violation of such emission requirements.

(4) Air Cleaning. If air-cleaning is elected, as provided by subsection (3) (f) of this section, the requirements of this subsection shall be met.

(a) Fabric filter collection devices shall be used, except as noted in paragraphs (b) and (c) of this subsection. Such devices shall be operated at a pressure drop of no more than 4 inches water gauge, as measured across the filter fabric. The airflow permeability, as determined by a method specified by the department, must not exceed 30 cubic feet/min/square foot for woven fabrics or 35 cubic feet/min/square foot for felted fabrics, except that 40 cubic feet/min/square foot for woven and 45 cubic feet/min/square foot for felted fabrics is allowed for filtering air from asbestos ore dryers. Each square yard of felted fabric shall weigh at least fourteen (14) ounces and be at least one-sixteenth (1/16) inch thick throughout. Synthetic fabrics shall not contain fill yarn other than that which is spun.

(b) If the use of fabric filters creates a fire or explosion hazard, the department may authorize the use of wet collectors designed to operate with a unit contacting energy of at least forty (40) inches water gauge pressure.

(c) The department may authorize the use of filtering equipment other than that described in paragraphs (a) and (b) of this subsection if the owner or operator demonstrates to the satisfaction of the department that the filtering of particulate asbestos material is equivalent to that of the described equipment.

(d) All air-cleaning equipment authorized by this subsection shall be properly installed, used, operated, and maintained. Bypass devices may be used only during upset or emergency conditions and then only for so long as it takes to shut down the operation generating the particulate asbestos material.

(5) Reporting. The owner or operator of any existing source to which this section is applicable shall, within ninety (90) days after the effective date of this regulation provide the following information to the Department:

(a) A description of the emission control equipment used for each process;

(b) If a fabric filter device is used to control emissions, the pressure drop across the fabric filter in inches water gauge.

1. If the fabric filter device utilizes a woven fabric, the airflow permeability in cubic feet/min/square foot; and, if the fabric is synthetic, indicate whether the fill yarn is spun or not spun.

2. If the fabric filter device utilizes a felted fabric, the density in ounces/square yard the minimum thickness in inches, and the airflow permeability in cubic feet/min/square foot.

Section 5. Emission Standard for Beryllium. (1) Applicability. The provisions of this section are applicable to the following stationary sources:

(a) Extraction plants, ceramic plants, foundries, incinerators, and propellant plants which process beryllium ore, beryllium, beryllium oxide, beryllium alloys, or beryllium-containing waste.

(b) Machine shops which process beryllium, beryllium oxides, or any alloy when such alloy contains more than five (5) percent beryllium by weight.

(2) Definitions. Terms used in this section not defined herein shall have the meaning given to them in 401 KAR 3:010 and in Section 1 of this regulation.

(a) "Beryllium" means the element beryllium. Where weights or concentrations are specified, such weights or concentrations apply to beryllium only, excluding the weight or concentration of any associated elements.

(b) "Extraction plant" means a facility chemically processing beryllium ore to beryllium metal alloy, or oxide, or performing any of the intermediate steps in these processes.

(c) "Beryllium ore" means any naturally occurring material mined or gathered for its beryllium content.

(d) "Machine shop" means a facility performing cutting, grinding, turning, honing, milling, deburring, lapping, electrochemical machining, etching, or other similar operations.

(e) "Ceramic plant" means a manufacturing plant producing ceramic items.

(f) "Foundry" means a facility engaged in the melting or casting of beryllium metal or alloy.

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Section 4. Emission Standard for Asbestos.

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(2) Definitions. Terms used in this section not defined herein shall have the meaning given to them in 401 KAR 3:010 and in Section 2 of this regulation:

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2. The manufacture of cement products.

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b. No pipe or load-supporting structural member that is covered with friable asbestos insulating or fireproofing material shall be dropped or thrown to the ground from any building, structure, facility, or installation subject to this subsection, but shall be carefully lowered or taken to ground level.

c. No friable asbestos debris shall be dropped or thrown to the ground from any building, structure, facility, or installation subject to this paragraph or from any floor to any floor below. For buildings, structures, facilities, or installations, fifty (50) feet or greater in

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4. Any owner or operator of a demolition operation who intends to demolish a building, structure, facility, or installation to which the provisions of this subsection would be applicable but which has been declared by proper state or local authority to be structurally unsound and which is in danger of imminent collapse is exempt from the requirements of this section other than the reporting requirements specified by paragraph (d) 1. of this subsection and the wetting of friable asbestos debris as specified by paragraph (d) 3.a. of this subsection.

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(c) "Beryllium ore" means any naturally occurring material mined or gathered for its beryllium content.

(d) "Machine shop" means a facility performing cutting, grinding, turning, honing, milling, deburring, lapping, electrochemical machining, etching, or other similar operations.

(e) "Ceramic plant" means a manufacturing plant producing ceramic items.

(f) "Foundry" means a facility engaged in the melting or casting of beryllium metal or alloy.

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