

## RULE 471

### Asphalt Roofing Operations

#### (A) General

- (1) Purpose: To reduce emissions of volatile organic compounds (VOC) from asphalt or coal tar pitch roofing operations.
- (2) Applicability: This rule shall apply to any person who operates equipment used for melting, heating, or holding asphalt or coal tar pitch.

#### (B) Definitions

For the purposes of this rule, the following definitions shall apply:

- (1) "Asphalt": a brownish-black cementitious material (solid, semi-solid or liquid in consistency) of which the main constituents are bitumens which occur naturally or are a residue of petroleum refining.
- (2) "Close Fitting Lid": a VOC impermeable cover that fits securely over a roofing kettle or other container so that no gap exists between the kettle body and lid greater than 3/8 inch.
- (3) "Coal Tar": a viscous black liquid obtained by the destructive distillation of coal and used as a raw material for dyes, drugs, and organic chemicals and for waterproofing, paints, roofing, and insulation materials.
- (4) "Coal Tar Pitch": a thick, dark, and sticky substance obtained from the distillation residue of coal tar.
- (5) "Gap": an opening between a roofing kettle body and the edges of the kettle lid from which VOC vapors can be emitted to the atmosphere.
- (6) "Roofing Kettle": a device used to heat and melt asphalt or coal tar pitch so that the asphalt or coal tar pitch can be applied onto a rooftop to provide a protective coating.
- (7) "Roof Transfer Pipe": a pipe or hose that connects to a roofing kettle's pump outlet and serves to convey hot roofing material from a kettle to a roof.

- (8) "Volatile Organic Compounds (VOC)": any compound of carbon, excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate, which participates in atmospheric photochemical reactions, excluding those exempt compounds listed in 40 CFR 51.100(s)(1).

### (C) Requirements

- (1) A person shall not operate or use equipment for melting, heating or holding asphalt or coal tar pitch for the on-site construction, installation or repair of roofs unless:
- (a) the vapors from such equipment are contained by one or more close fitting lids. The lid(s) shall not be opened except for loading the kettle with solid roofing material or unless the material in the roofing kettle is less than 150 °F; and
  - (b) for roofing kettles, the temperature of the material inside is no greater than:
    - (i) 500 °F for asphalt; and
    - (ii) 400 °F for coal tar pitch.
- (2) During a roofing kettle draining operation, the VOC vapors from the kettle shall be contained by a close fitting lid. Within 2 minutes after the draining operation has been completed, the vessel that received the hot roofing material shall be covered with a close fitting lid or capped to prevent the release of visible smoke from the vessel.
- (3) Any kettle vent shall remain closed except during a pressure release caused by flashing of the roofing material.
- (4) A person operating equipment subject to this rule shall provide, properly install and maintain in good working order, devices capable of correctly indicating and controlling the operating temperatures of such equipment.

### (D) Exemptions

- (1) The provisions of this rule shall not apply to equipment having a capacity of 100 liters (26.4 gallons) or less.

- (2) The provisions of this rule shall not apply to equipment having a capacity of 600 liters (159 gallons) or less which is equipped with a close fitting lid, except that such equipment shall comply with subsection (C)(1)(a).

(E) Test Methods

The temperature limits specified in this rule shall be measured with a thermometer and shall apply to any location within the equipment where asphalt or coal tar pitch exists.

(F) Compliance Schedule

- (1) This rule is effective upon December 21, 1994 for all equipment not completed and put into service.
- (2) The owner or operator of any equipment subject to this rule which has been completed and put into service prior to December 21, 1994 shall comply with all pertinent provisions of the rule by February 1, 1995.

[SIP: Approved 2/29/96, 61 FR 7706; 40 CFR 52.220(c)(210)(i)(C)(2); Approved 12/21/78, 43 FR 59489, 40 CFR 52.220(c)(42)(xiii)(A); Approved 6/14/78, 43 FR 25684, 40 CFR 52.220(c)(32)(iv)(A)]