

Section 5.4. Special Processes Involving Flammable and Combustible Liquids and Materials

5.4.1. Baking and Drying Processes

5.4.1.1. Application

1) This Subsection applies to baking and drying processes during which flammable vapours are given off by the products being baked or dried.

5.4.1.2. Design, Operation and Maintenance

1) The design, operation and maintenance requirements relating to baking and drying processes shall conform to NFPA 86, “Ovens and Furnaces.”

5.4.2. Dry Cleaning Plants

5.4.2.1. Dry Cleaning Plants

1) Dry cleaning plants shall conform to NFPA 32, “Drycleaning Plants.”

5.4.3. Fumigation and Thermal Insecticidal Fogging

5.4.3.1. Application

1) This Subsection applies to the fumigation or thermal insecticidal fogging of *buildings*, including the fumigation of equipment or commodities within structures, tanks or bins or under tarpaulins.

5.4.3.2. Notification

- 1) The fire department shall be notified before any operation described in Article 5.4.3.1. is conducted.
- 2) The occupants of any premises adjacent to that in which fumigation or thermal insecticidal fogging is to take place shall be given prior notice.

5.4.3.3. Ignition Sources

1) All flames and other sources of ignition shall be eliminated in any part of a *building* undergoing fumigation or thermal insecticidal fogging.

5.4.3.4. Electric Power

1) Electric power supply shall be shut off to the premises undergoing fumigation or thermal insecticidal fogging.

5.4.3.5. Air Temperature

1) The air temperature in the part of a *building* undergoing fumigation or thermal insecticidal fogging shall be kept sufficiently low to prevent the actuation of any sprinkler or fire alarm system.

5.4.3.6. Access to Premises

- 1) No unauthorized person shall be permitted to enter a premise undergoing fumigation or thermal insecticidal fogging until the premise has been ventilated and is safe.
- 2) Warning signs shall be posted in a conspicuous location near every entrance to the premises being fumigated.
- 3) One person shall be on duty at each entrance to the premises undergoing fumigation or thermal insecticidal fogging to prevent any unauthorized person from entering until such premises have been ventilated.

5.4.4. Floor Finishing

5.4.4.1. Application

1) Floor finishing operations involving the use of *flammable liquids* or *combustible liquids* shall conform to Part 4 and this Subsection.

5.4.4.2. Public Access

1) Any part of a *building* where floor finishing operations are done shall not be open to the public.

5.4.4.3. Ventilation

1) Ventilation shall be provided in areas where floor finishing operations are done to prevent the accumulation of flammable vapours.

2) Ventilation required in Sentence (1) is permitted to be provided by mechanical systems if their use does not constitute a source of ignition.

5.4.4.4. Sources of Ignition

1) All mechanical systems, electric motors and other equipment that might be a source of ignition shall be shut down, and smoking and the use of open flames shall be prohibited during the application of Class I liquids and for at least 1 h after such application.

5.4.4.5. Waste Receptacles

1) A receptacle conforming to Article 2.4.1.3. shall be provided for all waste rags and materials used in operations involving *flammable liquids* or *combustible liquids*, and the contents shall be removed daily and disposed of in a manner that will not create a fire hazard.

5.4.5. Spray Coating Processes

5.4.5.1. Application

1) This Subsection applies to spray coating processes involving the use of combustible dry powders, *flammable liquids* or *combustible liquids*.

5.4.5.2. Design, Operation and Maintenance

1) The design, operation and maintenance requirements relating to spray coating processes shall conform to NFPA 33, "Spray Application Using Flammable or Combustible Materials."

5.4.6. Dipping and Coating Processes

5.4.6.1. Application

1) This Subsection applies to

- a) processes in which products or materials are immersed in a dip tank containing *flammable liquids* or *combustible liquids*, and
- b) the unatomized application of *flammable liquids* or *combustible liquids*, such as by flow coating or roll coating processes.

5.4.6.2. Design, Operation and Maintenance

1) The design, operation and maintenance requirements relating to dipping and coating processes shall conform to NFPA 34, "Dipping, Coating, and Printing Processes Using Flammable or Combustible Liquids."

5.4.7. Production of Ethanol for Fuel

5.4.7.1. Application

- 1) This Subsection applies to *process plants* where ethanol is produced for fuel purposes.
- 2) For the purpose of applying this Subsection, ethanol concentrations greater than or equal to 20% by volume of ethanol in water shall be considered as a *flammable liquid*.

5.4.7.2. Use, Handling and Storage

- 1) The use, handling and storage of *dangerous goods*, excluding *flammable liquids* and *combustible liquids*, shall conform to Part 3.