

CHAPTER 13

COMBUSTIBLE DUST-PRODUCING OPERATIONS

SECTION 1301 GENERAL

1301.1 Scope. The equipment, processes and operations involving dust explosion hazards shall comply with the provisions of this chapter.

1301.2 Permits. Permits shall be required for *combustible dust*-producing operations as set forth in Section 105.6.

SECTION 1302 DEFINITIONS

1302.1 Definition. The following word and term shall, for the purposes of this chapter and as used elsewhere in this code, have the meaning shown herein.

COMBUSTIBLE DUST. Finely divided solid material which is 420 microns or less in diameter and which, when dispersed in air in the proper proportions, could be ignited by a flame, spark or other source of ignition. Combustible dust will pass through a U.S. No. 40 standard sieve.

SECTION 1303 PRECAUTIONS

1303.1 Sources of ignition. Smoking or the use of heating or other devices employing an open flame, or the use of spark-producing equipment is prohibited in areas where *combustible dust* is generated, stored, manufactured, processed or handled.

1303.2 Housekeeping. Accumulation of *combustible dust* shall be kept to a minimum in the interior of buildings. Accumulated *combustible dust* shall be collected by vacuum cleaning or other means that will not place *combustible dust* into suspension in air. Forced air or similar methods shall not be used to remove dust from surfaces.

SECTION 1304 EXPLOSION PROTECTION

1304.1 Standards. The *fire code official* is authorized to enforce applicable provisions of the codes and standards listed in Table 1304.1 to prevent and control dust explosions.

**TABLE 1304.1
EXPLOSION PROTECTION STANDARDS**

STANDARD	SUBJECT
NFPA 61	Agricultural and Food Products
NFPA 69	Explosion Prevention
NFPA 70	National Electrical Code
NFPA 85	Boiler and Combustion System Hazards
NFPA 120	Coal Preparation Plants
NFPA 484	Combustible Metals, Metal Powders and Metal Dusts
NFPA 654	Manufacturing, Processing and Handling of Combustible Particulate Solids
NFPA 655	Prevention of Sulfur Fires and Explosions
NFPA 664	Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities

SECTION 1305 DUST COLLECTION

1305.1 Dust collection. Dust collection systems shall be designed and installed in accordance with Section 510 of the *International Mechanical Code*. Electrical ventilation fan motor shall be interlocked in accordance with Section 503.1 of the *International Mechanical Code*.

Note: The *Oregon Mechanical Specialty Code*, Section 511.1.1, Exception 2, limits the number of independent collectors (portable collectors) to not more than three collectors, servicing not more than five dust-producing appliances.

