CHAPTER 15
EXHAUST SYSTEMS

SECTION M1501
CLOTHES DRYERS EXHAUST

M1501.1 General. Dryer exhaust systems shall be independent of all other systems, shall convey the moisture to the outdoors and shall terminate on the outside of the building. Exhaust duct terminations shall be in accordance with the dryer manufacturer's installation instructions. Screens shall not be installed at the duct termination. Exhaust ducts shall not be connected with sheet-metal screws or fastening means which extend into the duct. Exhaust ducts shall be equipped with a backdraft damper. Exhaust ducts shall be constructed of minimum 0.016-inch-thick (0.406 mm) rigid metal ducts, having smooth interior surfaces with joints running in the direction of air flow. Flexible transition ducts used to connect the dryer to the exhaust duct system shall be limited to single lengths, not to exceed 8 feet (2438 mm) in length and shall be listed and labeled in accordance with UL 2158A. Transition ducts shall not be concealed within construction.

M1501.2 Exhaust duct size. The minimum diameter of the exhaust duct shall be as recommended by the manufacturer and shall be at least the diameter of the appliance outlet.

M1501.3 Length limitation. The maximum length of a clothes dryer exhaust duct shall not exceed 25 feet (7620 mm) from the dryer location to the wall or roof termination. The maximum length of the duct shall be reduced 2.5 feet (762 mm) for each 45-degree (0.79 rad) bend and 5 feet (1524 mm) for each 90-degree (1.6 rad) bend. The maximum length of the exhaust duct does not include the transition duct.

Exception: Where the make and model of the clothes dryer to be installed is known and the manufacturer's installation instructions for such dryer are provided to the building official, the maximum length of the exhaust duct, including any transition duct, shall be permitted to be in accordance with the dryer manufacturer's installation instructions.

SECTION M1502
RANGE HOODS

M1502.1 General. Range hoods shall discharge to the outdoors through a single-wall duct. The duct serving the hood shall have a smooth interior surface, shall be air tight and shall be equipped with a backdraft damper. Ducts serving range hoods shall not terminate in an attic or crawl space or areas inside the building.

Exception: Where installed in accordance with the manufacturer's installation instructions, and where mechanical or natural ventilation is otherwise provided, listed and labeled ductless range hoods shall not be required to discharge to the outdoors.

M1502.2 Duct material. Single-wall ducts serving range hoods shall be constructed of galvanized steel, stainless steel or copper.

Exception: Ducts for domestic kitchen cooking appliances equipped with down draft exhaust systems shall be permitted to be constructed of schedule 40 PVC pipe provided that the installation complies with all of the following:

1. The duct shall be installed under a concrete slab poured on grade,
2. The underfloor trench in which the duct is installed shall be completely backfilled with sand or gravel,
3. The PVC duct shall extend not greater than 1 inch (25.4 mm) above the indoor concrete floor surface,
4. The PVC duct shall extend not greater than 1 inch (25.4 mm) above grade outside of the building, and
5. The PVC ducts shall be solvent cemented.

SECTION M1503
INSTALLATION OF MICROWAVE OVENS

M1503.1 Installation of microwave oven over a cooking appliance. The installation of a listed and labeled cooking appliance or microwave oven over a listed and labeled cooking appliance shall conform to the terms of the upper appliance's listing and label and the manufacturer's installation instructions.

SECTION M1504
OVERHEAD EXHAUST HOODS

M1504.1 General. Domestic open-top broiler units shall be provided with a metal exhaust hood, not less than 28 gage, with a clearance of not less than 0.25 inch (6.4 mm) between the hood and the underside of combustible material or cabinets. A clearance of at least 24 inches (610 mm) shall be maintained between the cooking surface and the combustible material or cabinet. The hood shall be at least as wide as the broiler unit and shall extend over the entire unit. Such exhaust hood shall discharge to the outdoors and shall be equipped with a backdraft damper or other means to control infiltration/exfiltration when not in operation. Broiler units incorporating an integral exhaust system, and listed and labeled for use without an exhaust hood, need not be provided with an exhaust hood.

SECTION M1505
EXHAUST DUCTS

M1505.1 Ducts. Where exhaust duct construction is not specified in this chapter, such construction shall comply with Chapter 16.

SECTION M1201.1; scope

Sec. 108. Change SECTION M1201.1 to read as follows: The provisions of CHAPTERS 1, 2, and 12 through 24 shall regulate the design, installation, and alteration of any part of the permanent heating, ventilating, and air conditioning for a Class 1structure - townhouse or a Class 2 structure - 1 or 2 family dwelling. *(675 IAC 14-4.2-108)* Eff June 22, 2001

SECTION M1201.2; application

Sec. 109. Delete SECTION M1201.2. *(675 IAC 14-4.2-109)* Eff June 22, 2001

SECTION M1202; existing mechanical systems

Sec. 110. Delete SECTION M1202 and substitute to read as follows: For existing installations see Chapter 1 and the General Administrative Rules (675 IAC 12). *(675 IAC 14-4.2-110)* Eff June 22, 2001

SECTION M1303.1; label information

Sec. 111. Change in SECTION M1303.1, item number 4 "approval" to "acceptance". *(675 IAC 14-4.2-111)* Eff June 22, 2001

SECTION M1307.3.1; protection from impact

Sec. 112. Delete SECTION M1307.3.1. *(675 IAC 14-4.2-112)* Eff June 22, 2001

SECTION M1501.3; length limitation

Sec. 113. Change in the first sentence of SECTION M1501.3 "25 feet (7620 mm)" to read "thirty-five (35) feet". *(675 IAC 14-4.2-113)* Eff June 22, 2001

SECTION M1503.1; installation of microwave oven over a cooking appliance

Sec. 114. Delete SECTION M1503.1. *(675 IAC 14-4.2-114)* Eff June 22, 2001

Chapter 19; special fuel-burning equipment

Sec. 115. Delete Chapter 19. *(675 IAC 14-4.2-115)* Eff June 22, 2001

SECTION M2001; boilers

Sec. 116. Add SECTION M2001.1.2 to the end of SECTION M2001 to read as follows: Boilers and water heaters regulated by the Boiler and Pressure Vessel Rules Board (680 IAC 2) under IC 22-13-2-9; are not regulated by this code. *(675 IAC 14-4.2-116)* Eff June 22, 2001

SECTION M2005.5; anchorage of water heaters in Seismic Design Category C_1

Sec. 117. Add SECTION M2005.5 to the end of SECTION M2005 to read as follows: M2005.5 Anchorage of Water Heaters in Seismic Design Category C_1. In Seismic Design Category C_1, all water heaters shall be anchored or fastened to resist horizontal displacement due to earthquake motion as provided in SECTION M1307.2. *(675 IAC 14-4.2-117)* Eff June 22, 2001

SECTION M2006; pool heaters

Sec. 118. Delete SECTION M2006. *(675 IAC 14-4.2-118)* Eff June 22, 2001

SECTION M2201.3; underground tanks

Sec.119. Delete SECTION M2201.3 and substitute to read as follows: Excavations for underground tanks shall not undermine the foundations of existing structures.

Underground tanks shall be set on firm foundations and surrounded with at least six (6) inches (one hundred fifty-two and four-tenths (152.4) millimeters) of noncorrosive inert material, such as clean sand or gravel well-tamped in place or in accordance with the manufacturer's installation instructions. Tanks shall be covered with a minimum of two (2) feet (six hundred nine and six-tenths (609.6) millimeters) of earth or shall be covered by not less than one (1) foot (three hundred four and eight-tenths (304.8) millimeters) of earth, on top of which shall be placed a slab of reinforced concrete not less than four (4) inches (one hundred one and six-tenths (101.6) millimeters) thick.

When underground tanks are, or are likely to be, subjected to traffic, they shall be protected against damage from vehicles passing over them by at least