

CHAPTER 6 – MECHANICAL & ELECTRICAL REQUIREMENTS

Chapter 6 establishes minimum criteria for the installation and maintenance of the following: heating and air conditioning equipment, appliances and systems; water-heating equipment, appliances and systems; cooking equipment and appliances; ventilation and exhaust equipment; gas and liquid fuel distribution piping and components; fireplaces and solid fuel-burning appliances; chimneys and vents; electrical services; lighting fixtures and electrical receptacle outlets.

* Indicates code is still under review for inclusion.

SECTION 601 - GENERAL

601.1 Scope	The provisions of this chapter shall govern the minimum mechanical and electrical facilities and equipment to be provided.
601.2 Responsibility	The <i>owner</i> of the structure shall provide and maintain mechanical and electrical facilities and equipment in compliance with these requirements. A person shall not occupy as <i>owner-occupant</i> or permit another person to occupy any <i>premises</i> which does not comply with the requirements of this chapter.

SECTION 602 – HEATING FACILITIES

602.1 Facilities required.	Heating facilities shall be provided in structures as required by this section.
602.2 Residential occupancies.	<p>Dwellings shall be provided with heating facilities capable of maintaining a room temperature of 68°F (20°C) in all habitable rooms, <i>bathrooms</i> and <i>toilet rooms</i> based on the winter outdoor design temperature for the locality indicated in Appendix D of the <i>International Plumbing Code</i>. Cooking appliances shall not be used, nor shall portable unvented fuel-burning space heaters be used, as a means to provide required heating.</p> <p>Exception: In areas where the average monthly temperature is above 30°F (-1°C), a minimum temperature of 65°F (18°C) shall be maintained.</p>
602.3 Heat supply.	<p>Every <i>owner</i> and <i>operator</i> of any building who rents, leases or lets one or more <i>dwelling units</i> or <i>sleeping units</i> on terms, either expressed or implied, to furnish heat to the <i>occupants</i> thereof shall supply heat during the period from [DATE] to [DATE] to maintain a minimum temperature of 68°F (20°C) in all habitable rooms, <i>bathrooms</i> and <i>toilet rooms</i>.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. When the outdoor temperature is below the winter outdoor design temperature for the locality, maintenance of the minimum room temperature shall not be required provided that the heating system is operating at its full design capacity. The winter outdoor design temperature for the locality shall be as indicated in Appendix D of the <i>International Plumbing Code</i>. 2. In areas where the average monthly temperature is above 30°F (-1°C) a minimum temperature of 65°F (18°C) shall be

	maintained.
* 602.5 Room temperature measurement.	The required room temperatures shall be measured 3 feet (914 mm) above the floor near the center of the room and 2 feet (610 mm) inward from the center of each exterior wall.
SECTION 603 – MECHANICAL EQUIPMENT	
603.1 Mechanical appliances.	All mechanical appliances, fireplaces, solid fuel-burning appliances, cooking appliances and water heating appliances shall be properly installed and maintained in a safe working condition, and shall be capable of performing the intended function.
603.2 Removal of combustion products.	All fuel-burning equipment and appliances shall be connected to an <i>approved</i> chimney or vent. Exception: Fuel-burning equipment and appliances which are <i>labeled</i> for unvented operation.
603.3 Clearances.	All required clearances to combustible materials shall be maintained.
603.4 Safety controls.	All safety controls for fuel-burning equipment shall be maintained in effective operation.
603.5 Combustion air.	A supply of air for complete combustion of the fuel and for <i>ventilation</i> of the space containing the fuel-burning equipment shall be provided for the fuel-burning equipment.
603.6 Energy conservation devices.	Devices intended to reduce fuel consumption by attachment to a fuel-burning appliance, to the fuel supply line thereto, or to the vent outlet or vent piping therefrom, shall not be installed unless <i>labeled</i> for such purpose and the installation is specifically <i>approved</i> .
SECTOPM 604 – ELECTRICAL FACILITIES	
604.2 Service.	The size and usage of appliances and equipment shall serve as a basis for determining the need for additional facilities in accordance with NFPA 70. <i>Dwelling units</i> shall be served by a three-wire, 120/240 volt, single-phase electrical service having a minimum rating of 60 amperes.
* 604.3 Electrical system hazards.	Where it is found that the electrical system in a structure constitutes a hazard to the <i>occupants</i> or the structure by reason of inadequate service, improper fusing, insufficient receptacle and lighting outlets, improper wiring or installation, <i>deterioration</i> or damage, or for similar reasons, the <i>code official</i> shall require the defects to be corrected to eliminate the hazard. 604.3.1 Abatement of electrical hazards associated with water exposure. The provisions of this section shall govern the repair and replacement of electrical systems and equipment that have been exposed to water. 604.3.1.1 Electrical equipment. Electrical distribution equipment, motor circuits, power equipment, transformers, wire, cable, flexible cords, wiring

devices, ground fault circuit interrupters, surge protectors, molded case circuit breakers, low-voltage fuses, luminaires, ballasts, motors and electronic control, signaling and communication equipment that have been exposed to water shall be replaced in accordance with the provisions of the *International Building Code*.

Exception: The following equipment shall be allowed to be repaired where an inspection report from the equipment manufacturer or *approved* manufacturer's representative indicates that the equipment has not sustained damage that requires replacement:

1. Enclosed switches, rated a maximum of 600 volts or less;
2. Busway, rated a maximum of 600 volts;
3. Panelboards, rated a maximum of 600 volts;
4. Switchboards, rated a maximum of 600 volts;
5. Fire pump controllers, rated a maximum of 600 volts;
6. Manual and magnetic motor controllers;
7. Motor control centers;
8. Alternating current high-voltage circuit breakers;
9. Low-voltage power circuit breakers;
10. Protective relays, meters and current transformers;
11. Low- and medium-voltage switchgear;
12. Liquid-filled transformers;
13. Cast-resin transformers;
14. Wire or cable that is suitable for wet locations and whose ends have not been exposed to water;
15. Wire or cable, not containing fillers, that is suitable for wet locations and whose ends have not been exposed to water;
16. Luminaires that are listed as submersible;
17. Motors;
18. Electronic control, signaling and communication equipment.

604.3.2 Abatement of electrical hazards associated with fire exposure. The provisions of this section shall govern the repair and replacement of electrical systems and equipment that have been exposed to fire.

604.3.2.1 Electrical equipment. Electrical switches, receptacles and fixtures, including furnace, water heating, security system and power distribution circuits that have been exposed to fire, shall be replaced in

	<p>accordance with the provisions of the <i>International Building Code</i>.</p> <p>Exception: Electrical switches, receptacles and fixtures that shall be allowed to be repaired where an inspection report from the equipment manufacturer or <i>approved</i> manufacturer’s representative indicates that the equipment has not sustained damage that requires replacement.</p>
SECTION 605 – ELECTRICAL EQUIPMENT	
605.1 Installation.	All electrical equipment, wiring and appliances shall be properly installed and maintained in a safe and <i>approved</i> manner.
605.2 Receptacles.	Every <i>habitable space</i> in a dwelling shall contain at least two separate and remote receptacle outlets. Every laundry area shall contain at least one grounded-type receptacle or a receptacle with a ground fault circuit interrupter. Every <i>bathroom</i> shall contain at least one receptacle. Any new <i>bathroom</i> receptacle outlet shall have ground fault circuit interrupter protection. All receptacle outlets shall have the appropriate faceplate cover for the location.
* 605.3 Luminaires.	Every public hall, interior stairway, <i>toilet room</i> , kitchen, <i>bathroom</i> , laundry room, boiler room and furnace room shall contain at least one electric luminaire. Pool and spa luminaries over 15 V shall have ground fault circuit interrupter protection.
605.4 Wiring.	Flexible cords shall not be used for permanent wiring, or for running through doors, windows, or cabinets, or concealed within walls, floors, or ceilings.
SECTION 607 – DUCT SYSTEMS	
607.1 General.	Duct systems shall be maintained free of obstructions and shall be capable of performing the required function.