

MANSFIELD FIRE DEPARTMENT

INFORMATION LINE

ELECTRICAL EQUIPMENT, WIRING, EXTENSION CORDS AND HAZARDS

1. **Abatement of electrical hazards.** Identified electrical hazards shall be abated. Identified hazardous electrical conditions in permanent wiring shall be brought to the attention of the official responsible for enforcement of the ICC Electrical Code. Electrical wiring, devices, appliances and other equipment that is modified or damaged and constitutes an electrical shock or fire hazard shall not be used.
2. **Illumination.** Illumination shall be provided for service equipment areas, motor control centers and electrical panel boards.
3. **Working space and clearance.** A working space of not less than 30 inches (762 mm) in width, 36 inches (914 mm) in depth and 78 inches (1981 mm) in height shall be provided in front of electrical service equipment. Where the electrical service equipment is wider than 30 inches (762 mm), the working space shall not be less than the width of the equipment. No storage of any materials shall be located within the designated working space.

Exceptions:

- a) Where other dimensions are required or allowed by the *ICC Electrical Code*.
- b) Access openings into attics or under-floor areas which provide a minimum clear opening of 22 inches (559 mm) by 30 inches (762 mm).

Labeling:

- a) Doors into electrical control panel rooms shall be marked with a plainly visible and legible sign stating ELECTRICAL ROOM or similar approved wording. The disconnecting means for each service, feeder or branch circuit originating on a switchboard or panel board shall be legibly and durably marked to indicate its purpose unless such purpose is clearly evident.
4. **Multiplug adapters.** Multiplug adapters, such as cube adapters, unused plug strips or any other device not complying with the *ICC Electrical Code* shall be prohibited.
 - a) **Power tap design.** Relocatable power taps shall be of the polarized or grounded type, equipped with overcurrent protection, and shall be listed.
 - b) **Power supply.** Relocatable power taps shall be directly connected to a permanently installed receptacle.

- c) **Installation.** Relocatable power tap cords shall not extend through walls, ceilings, floors, under doors or floor coverings, or be subject to environmental or physical damage.
5. **Extension cords.** Extension cords and flexible cords shall not be a substitute for permanent wiring. Extension cords and flexible cords shall not be affixed to structures, extended through walls, ceilings or floors, or under doors or floor coverings, nor shall such cords be subject to environmental damage or physical impact. Extension cords shall be used only with portable appliances.
- a) **Power supply.** Extension cords shall be plugged directly into an approved receptacle, power tap or multiplug adapter, and except for approved multiplug extension cords, shall serve only one portable appliance.
 - b) **Ampacity.** The ampacity of the extension cords shall not be less than the rated capacity of the portable appliance supplied by the cord.
 - c) **Maintenance.** Extension cords shall be maintained in good condition without splices, deterioration or damage.
 - d) **Grounding.** Extension cords shall be grounded when serving grounded portable appliances.
6. **Unapproved conditions.** Open junction boxes and open-wiring splices shall be prohibited. Approved covers shall be provided for all switch and electrical outlet boxes.
7. **Appliances.** Electrical appliances and fixtures shall be tested and listed in published reports of inspected electrical equipment by an approved agency and installed in accordance with all instructions included as part of such listing.
8. **Electrical motors.** Electrical motors shall be maintained free from excessive accumulations of oil, dirt, waste and debris.
9. **Temporary wiring.** Temporary wiring for electrical power and lighting installations is allowed for a period not to exceed 90 days. Temporary wiring methods shall meet the applicable provisions of the ICC *Electrical Code*.

Exception: Temporary wiring for electrical power and lighting installations is allowed during periods of construction, remodeling, repair or demolition of buildings, structures, equipment or similar activities.

- a) **Attachment to structures.** Temporary wiring attached to a structure shall be attached in an approved manner.

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