All new dwellings shall comply with the currently adopted National Electrical Code and the City Electrical Ordinance.

Dwellings being remodeled shall be wired to comply with the currently adopted National Electrical Code and the City Electrical Ordinance. If a financial hardship exists, a waiver may be signed giving the owner up to one (1) year to complete the wiring.

Dwellings moved to new locations shall meet the update provisions.

In accordance with Section 26-406(g), which reads as follows:

“Whenever service entrances are altered or upgraded, residential structures shall be updated throughout to the requirements consistent with the electrical code in accordance with the City of Des Moines Electrical Residential Update Requirements, as amended from time to time.”

Upgraded services should address the following:

**SERVICES**

1. 100 ampere minimum.
2. Service entrance shall be larger if load calculations justify.
3. Service entrance conductors shall be installed in metal raceways on and in buildings and other structures.
4. PVC dip pipe allowed for underground meter sockets if not subject to physical damage.
5. Length of raceway not to exceed 20 feet through building to first point of disconnect.
6. Conduit shall be plugged with duct seal or other approved material where it enters the building.
7. Adequate lighting shall be required in the area of the panelboard.

**KITCHEN**

1. Need minimum of two (2) 20 ampere appliance circuits.
2. GFCI protection and grounding needed for all countertop receptacles.
3. Built in dishwashers and microwaves shall have separate 15 or 20 ampere circuit.
4. Garbage disposal shall be properly grounded through fixed wiring or cord and receptacle.
5. Switches within 6 feet of the sink, and lights above sinks shall be grounded.
6. A minimum of two (2) receptacle outlets shall be available in addition to others that may be inaccessible serving appliances.

**BATHROOMS**

1. Ground light fixture if located above basin.
2. GFCI protect and ground new and existing receptacle outlets.
3. Newly installed bathroom receptacles shall be supplied by a separate 20 ampere branch circuit.
4. No receptacle required if one had never been installed.

**LAUNDRY**

1. One grounded separate 20 ampere circuit required.
2. Receptacle shall be located within 6 feet of water faucets.

**BEDROOMS, LIVING ROOM, DINING ROOMS OR OTHER HABITABLE ROOMS**

1. A minimum of two (2) receptacle outlets, preferably on opposite walls are required or no more than 20 feet between them.
2. All existing receptacles, other than where specifically required, may be the two wire type receptacles.
3. All new receptacles added shall be of the grounding type. Where a means does not exist to ground a receptacle, it shall be GFCI protected.
4. A switched lighting outlet shall be provided either by means of a wall switch or pull chain.
BASEMENT
1. Correct any deficient wiring.
2. When conduit is used it shall be EMT.
3. Romex and flexible metal raceway type wiring is allowed only when installed in a workmanlike manner. If Romex is drilled through joists it shall be physically protected by being located next to a wall or beam.
4. All new receptacles installed in unfinished basements shall be GFCI protected.
5. All existing receptacles having grounding contacts shall have those contacts effectively grounded.
6. GFCI protected receptacles shall be provided where replacements are made at receptacle outlets that are required to be so protected by the NEC.

ATTIC
1. Correct any deficient wiring.
2. If used for storage a light shall be required.
3. Romex type wiring may be allowed if it is not subject to physical damage.

OUTSIDE RECEPTACLES, OUTLETS AND LIGHTS
1. GFCI and ground all new and existing outside receptacle outlets.
2. All new and existing outside house and garage lighting fixtures shall be installed to a box that is approved for the purpose.

FURNACES AND AC UNITS
1. A furnace shall have a separate 15 or 20 ampere circuit.
2. A switch shall be provided at the furnace unless the panelboard is within sight.
3. All AC units shall have outside disconnects.
4. The overcurrent protection shall be matched to the AC unit listed rating.

GARAGES
1. A disconnect located in the garage is required.
2. EMT conduit is required if wiring is not covered.
3. Romex wiring is allowed if covered by gypsum board, paneling, pegboard or other similar material.
4. GFCI protection is required on all receptacle outlets unless it is a single dedicated receptacle for an appliance or stationary tool or a garage door opener.

Contact our Electrical Inspection Staff with questions at: 515-283-4925
or find more information on the web at www.dmgov.org