

Residential Electrical Inspection Checklist

This list includes most work inspected, but not all, to the standards of the 1999 National Electrical Code (NEC). Consult referenced codes.

Rough Inspection

*General: Dwelling must “dried-in” before starting
Address must be visibly posted at dwelling*

| | |
|--|------------------------|
| <i>Proper location and clearance of electrical panel.....</i> | <i>110.26</i> |
| <i>Check all romex connectors and bushings.....</i> | <i>370.17</i> |
| <i>Nail protection plates in locations where holes are bored less than 1 ¼” from edge of wood members.....</i> | <i>300.4</i> |
| <i>Water heaters, sinks, etc. no closer than 3ft. of panels.....</i> | <i>city amendments</i> |
| <i>Low voltage cannot be in same box as high voltage.....</i> | <i>725.54</i> |
| <i>Cables stapled 12” of boxes and 4 1/2’ thereafter, NOT TOO TIGHT.....</i> | <i>300.4</i> |
| <i>All conductors made properly in all boxes with appr. Connectors.....</i> | <i>250.148</i> |
| <i>Box fill.....</i> | <i>370.16(a)</i> |
| <i>#6 bare copper run for bonding of metal water pipes, gas pipe.....</i> | <i>250.104</i> |
| <i>Receptacle outlets 1 in front and rear of dwelling outside.....</i> | <i>210.52</i> |
| <i>Amount of romex sheath in boxes at least ¼”</i> | <i>370.17</i> |
| <i>Approved fan boxes for fan outlets.....</i> | <i>410.15</i> |
| <i>Cable protected 6’ of attic access.....</i> | <i>333.12</i> |
| <i>Floor boxes must be an approved type.....</i> | <i>110.3</i> |
| <i>Approved cover requirements for conduit (buried or encased)....</i> | <i>300.5</i> |
| <i>Outlet spacing.....</i> | <i>210.52</i> |
| <i>Outlet in hallways 10’ length or greater.....</i> | <i>210.52</i> |
| <i>3-way wall switched light top and bottom of stairs (6 risers)....</i> | <i>210.70</i> |
| <i>Wall switched light for hallways.....</i> | <i>210.70</i> |
| <i>Wall switched light in all habitable rooms.....</i> | <i>210.70</i> |
| <i>Make sure panels and circuits are not overloaded.....</i> | <i>220</i> |
| <i>Smoke detectors in all sleeping rooms and area adjacent to. IOTFDC 1998 ed.</i> | |
| <i>Smoke detectors interconnected with 14-3 or 12-3 cable....</i> | <i>300.4</i> |
| <i>No boxes or cables in return air plenums.....</i> | <i>300.22</i> |
| <i>Recessed light fixtures are properly rated (ex. Type IC)....</i> | <i>410.65-66</i> |

GARAGES AND BASEMENTS

| | |
|---|---------------------|
| <i>1 outlet excluding laundry (unfinished).....</i> | <i>210.8,210.52</i> |
| <i>Wall switched light.....</i> | <i>210.70</i> |
| <i>Light on exterior side of man door.....</i> | <i>210.70</i> |
| <i>First 6" above garage floor free of panels and receptacles...City Amend.</i> | |

KITCHEN

| | |
|---|----------------|
| <i>Size and type of wires for cooking equipment.....</i> | <i>210.19</i> |
| <i>Two 20 amp circuits to serve countertop spaces.....</i> | <i>210.52</i> |
| <i>In kitchens, pantry, breakfast room, dining room, or similar area, two or more small appliance circuits shall only supply receptacle outlets and refrigeration equipment only.....</i> | <i>210.52</i> |
| <i>Vent hood not on small appliance circuit.....</i> | <i>210.52</i> |
| <i>Disposal and dishwasher on separate circuit.....</i> | <i>220.14</i> |
| <i>Range supplied with 3-conductor cable with ground.....</i> | <i>250.140</i> |
| <i>1 outlet for peninsular and fixed island counter-top.....</i> | <i>210.52</i> |
| <i>Receptacle outlets for wall countertop spaces greater than 12" and spaced so that no point is greater than 24" from outlet.....</i> | <i>210.52</i> |

BATHROOMS

| | |
|--|---------------|
| <i>Separate 20 amp circuit for bathroom receptacles or receptacles and lights for single bathroom.....</i> | <i>210.11</i> |
| <i>Receptacle outlet within 36" of each basin.....</i> | <i>210.52</i> |

ATTICS,CRAWL SPACES

| | |
|---|---------------|
| <i>1 lighting outlet controlled at point of entry(equip. or storage)...</i> | <i>210.70</i> |
| <i>1 receptacle outlet within 25' of equipment.....</i> | <i>210.70</i> |
| <i>Secure all cables.....</i> | <i>336.18</i> |

LAUNDRY

| | |
|--|---------------|
| <i>Laundry receptacle on 20 amp circuit single device and can only receptacle outlets in laundry room.....</i> | <i>210.11</i> |
| <i>Dryer on 30 amp circuit with 3 conductor cable w/ground.....</i> | <i>220.54</i> |

HEATING AND COOLING EQUIPMENT

| | |
|---|------------------|
| <i>Sleeve cables for units where going through block or brick....</i> | <i>300.4</i> |
| <i>Rate units according to manufacturer.....</i> | <i>422.11(a)</i> |

ELECTRICAL SERVICE INSPECTION

| | |
|---|---------------|
| <i>No more than 42 breakers or manufacturer design.....</i> | <i>384.15</i> |
| <i>Secure meter base (JEA to locate).....</i> | <i>110.13</i> |
| <i>Assure all connections are tight.....</i> | <i>110.14</i> |
| <i>1 wire per screw on breakers.....</i> | <i>110.14</i> |

| | |
|--|-----------------------|
| <i>Main located at nearest point of entry for service.....</i> | <i>230.70</i> |
| <i>Sub-fed panel locations, isolated neutral and ground buss and 3 conductor cable w/ground.....</i> | <i>110.26,250.24</i> |
| <i>Identify neutrals (white markings).....</i> | <i>200.6</i> |
| <i>Correct wire size for service.....</i> | <i>310.15(b)(6)</i> |
| <i>Only approved lugs or screws for grounding or bonding..</i> | <i>250.8</i> |
| <i>Grounding electrode conductor connected to neutral buss....</i> | <i>250.24</i> |
| <i>Panel bonding screw or jumper.....</i> | <i>250.28</i> |
| <i>Ground rod 8ft. contact with earth, minimum #6 awg copper, and must ohm at 25 ohms or less or two rods minimum 6' apart...</i> | <i>250.52</i> |
| <i>Panel cover must be installed.....</i> | <i>110.27</i> |
| <i>1 GFCI receptacle, one breaker, panel cover and all other circuits completed or concealed before operating for temporary service.....</i> | <i>City ordinance</i> |

ELECTRICAL FINAL INSPECTION

General Areas

| | |
|--|--------------------|
| <i>Check breaker sizing on units.....</i> | <i>422.11(a)</i> |
| <i>Smoke detectors must have battery back-up.....</i> | <i>IOTFDC 1998</i> |
| <i>Check all outlet spacing.....</i> | <i>210.52</i> |
| <i>Check polarity of all receptacles.....</i> | <i>200.11</i> |
| <i>Outlets 6ft. of sinks must be GFCI.....</i> | <i>210.8</i> |
| <i>Outdoor outlets must be GFCI protected.....</i> | <i>210.8</i> |
| <i>All bedroom receptacle outlets must have arc-fault protection...</i> | <i>210.12</i> |
| <i>Lights and receptacles in attics and crawl spaces if required....</i> | <i>210.70</i> |
| <i>All lights installed properly and grounded.....</i> | <i>210.70</i> |
| <i>All outlet boxes must be mounted flush with combustible surface....</i> | <i>370.20</i> |

Kitchen

| | |
|---|---------------|
| <i>GFCI protection on all countertop outlets.....</i> | <i>210.8</i> |
| <i>Check correct spacing for all outlets.....</i> | <i>210.52</i> |
| <i>Check connectors in vent hoods and all metal boxes.....</i> | <i>300.15</i> |
| <i>All outlet boxes mounted flush with combustible surface...</i> | <i>370.20</i> |

Bathrooms

| | |
|---|-----------------|
| <i>All receptacles must have GFCI protection.....</i> | <i>210.8</i> |
| <i>Only approved light fixtures in tub and shower spaces.....</i> | <i>410.4</i> |
| <i>Whirlpool tub on GFCI protected outlet.....</i> | <i>680.73</i> |
| <i>Exhaust fans in shower space need GFCI protection.....</i> | <i>110.3</i> |
| <i>No hanging fixtures within 3ft. horiz. and 8ft. vert. of tub or shower..</i> | <i>410.4(b)</i> |

Basements and Garages

| | |
|---|--------------|
| <i>Single device or GFCI in garage on all outlets.....</i> | <i>210.8</i> |
| <i>GFCI protection all receptacles in unfinished basements.....</i> | <i>210.8</i> |

Outlet within 25' of equipment.....210.70
Check all lights.....210.70

Contact Jeff Clark Residential Electrical Inspector 425-8262 or 425-8226.