

ELECTRICAL INSPECTION BULLETIN
B-02-022
Minimum Requirements For Upgrading Service For Single Dwellings



(Effective 12/15/2015)

General

The following requirements are to be applied to single dwellings where the service characteristics are being upgraded. This will normally include, but not be limited to, an increase in service capacity, upgrade from a two wire to a three wire service voltage, etc.

These requirements shall not apply to repairs, relocation, replacement, etc., of an existing service where no change in service characteristics is required.

Requirements

1. All hazardous wiring conditions must be corrected.

2. Service Entrance:

Service Entrance equipment shall be installed in accordance with the applicable sections of the latest Edition of the C.E. Code, Part I and all applicable N.S. Power Service Entrance Standards and the applicable Department of Environment and Labour bulletins.

Service Entrance equipment shall include that entire portion from the point of the utility supply; normally the service weather head; up to and including the service box, distribution center and associated grounding.

3. Receptacles:

3.1 Kitchen

Receptacles in a kitchen area shall be provided as per the following:

There shall be a sufficient number of kitchen counter receptacles along the wall behind counters, work surfaces (excluding sinks, built-in equipment and isolated work surfaces less than 300 mm long at the wall line) so that no point along this wall line is more than 900 mm from a receptacle measured horizontally along the wall line.

Where the number of existing receptacles meets this requirement at least one shall be of the 15A split or 20 A T-slot varieties.

New receptacles added to an existing kitchen counter installation shall be 15 A split or 20 A T-slot.

New receptacles added having CSA configuration 5-15R or 5-20RA installed within 1.5 m of a sink shall be protected by a ground fault circuit interrupter of the Class A type except as per Rule 26-700 (11), (a) & (b). (Effective date May 1, 2006)

Notwithstanding the requirement for split duplex receptacles, a duplex receptacle having a CSA Configuration 5-20RA can be used in lieu of each split receptacle provided it fulfills the requirement of Rule 26-710.

● Receptacles shall not be required to be installed on an existing peninsula or island counter area under the requirements of this bulletin.

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3.2 Outdoors

- At least one duplex receptacle shall be installed outdoors as required by C.E. Code Rule 26-714(a) and (b) and Rule 26-726(a).

3.3 Occupied Rooms

Where not receptacles exist in an occupied room, at least one duplex receptacle shall be installed. An occupied room shall include all rooms that are in use for any reason, i.e. Storage, workshops, utility room, etc., but shall not include unfinished attics and basements, bathrooms, washrooms, closets and like areas.

3.4 Bathrooms and Washrooms

A receptacle is not required to be located in a bathroom or washroom on a change of service. Where a receptacle exists or is installed, it shall be located at least one meter from the bathtub or shower or as permitted by C.E. Code Rule 26-710 (f) & (g). Receptacles located within 1.5 m of the washbasin, bathtub or shower stall shall be electrically protected by a ground fault circuit interrupter as required by Rule 26-700 (11).

4. Branch Circuits

A separate circuit must be provided for each of the following loads, if present:

- 4.1 Refrigerator
- 4.2 Water Pump
- 4.3 Furnace (Oil or Gas)
- 4.4 Loads exceeding 1,500 watts (unless connected as per Rule 26-746)
- 4.5 AFCI protection shall be installed for all new branch circuits installed in accordance with Rule 26-724(f). AFCI protection is not required when reconnecting existing circuits into the new consumers panelboard.
- 4.6 Ungrounded circuits supplying U grounded receptacles shall be installed to meet the requirements of Rule 26-700 (7) or 26-700 (8)

5. Lighting

- 5.1 Stairway lighting shall be provided and controlled in accordance with C.E. Code Rule 30-504.

6. Smoke Alarms

Most municipal building authorities require that on a change of service, smoke alarms shall be installed between each sleeping area and the remainder of the dwelling unit as per the National Building Code. The wiring of smoke alarms shall conform to C.E. Code Rule 32-110.