



City of Seattle

Department of Planning and Development

700 5th Ave, Suite 2000, PO Box 34019, Seattle, WA 98124-4019

REQUIREMENTS FOR ELECTRICAL PLAN REVIEW

(Source: City of Seattle Electrical Code Supplement Ordinance 122970 Effective June, 5th 2009)

Section 80.51 Application and Plans

(A) Application. Application for an electrical permit shall be made on a form provided by the authority having jurisdiction. Each application shall:

- (1) state the name and address of the owner or occupant in possession of the building or premises where the work is to be done;
- (2) state the name, address and phone number of the person responsible for the installation together with state license number of the licensed contractor, if any
- (3) provide details about the electrical installation, including drawings as required by the authority having jurisdiction and this *Code*; and
- (4) include documentation of compliance with the Seattle Energy Code.

The authority having jurisdiction may refuse to issue or may revoke a permit if any statement in the permit application is found to be untrue.

(B) Plans and Specifications.

(1) General. In addition to the requirements of Section 80.51(A), two sets of plans and specifications shall be submitted with each application for an electrical permit for installation of the following:

- (a) services or feeders of 400 amperes or over;
- (b) all switches, circuit breakers and equipment rated 400 amperes or over;
- (c) any equipment operating at voltages exceeding 600;
- (d) services, feeders and power supplies for emergency, legally required standby or fire pump systems;
- (e) any proposed alteration or installation the scope of which covers more than 2,500 square feet;
- (f) any proposed alteration or installation which cannot be adequately described on the application form;
- (g) new or altered electrical installations in educational, institutional, and health or personal care occupancies as required in WAC 296-46B-900(1); (3) (a), (b), (c), (e) & (g); and WAC 269-46B-900 Tables 900-1 and 900-2.

Exception to (a) through (g): Plan review applications will not be accepted for installations in one- and two-family dwelling structures that can be adequately described on the over-the-counter application form.

- (h) solar systems or other renewable energy systems

Exception to (h): Renewable energy systems rated 26 kW or less shall submit one set of line drawings showing all system components.



(2) Fire Department Review. Three sets of plans and specifications for fire alarm systems shall be submitted. See Seattle Fire Code Section 907 for required submittal information.

(3) Clarity of Plans. Plans shall be drawn to a clearly indicated and commonly accepted scale upon substantial paper such as blueprint quality or standard drafting paper. The plans shall be of microfilm quality and limited to a minimum size of 11 inches by 17 inches (279 mm by 432 mm) and maximum size of 41 inches by 54 inches (1041 mm by 1372 mm). Plans shall indicate the nature and extent of the work proposed and shall show in detail that it will conform to the provisions of this *Code*. All electrical work shall be readily distinguishable from other mechanical work. If plans are incomplete, unintelligible or indefinite, the authority having jurisdiction may require that the plans be prepared by a licensed electrical engineer, or may reject or refuse to examine such plans, even though a plan examination fee has been paid.

FPN: At such time as the authority having jurisdiction accepts electronically submitted plans, such plans shall be in a format acceptable to the authority having jurisdiction.

(4) Information on Plans and Specifications. Information on plans and specifications shall include the following:

- (a) The type of occupancy and a complete scope of work.
- (b) A complete riser and one line diagram to include all service and feeder connections.
- (c) Clear identification of all circuitry, to include but not limited to: circuit numbers, wire sizes, insulation types, conduit sizes and types.
- (d) A complete set of switchboard and panel schedules. These shall include all load calculations and demand factors used for computation.
- (e) A complete project load summary to include existing loads as computed in accordance with *NEC* Article 220 and all added loads. Electrical calculations, heat loss calculations and lighting summaries may be submitted on separate computation sheets.
- (f) Fault current calculations and the listed interrupting rating of all feeder and service equipment.
- (g) Voltage characteristics of all electrical systems and equipment.
- (h) A key to all symbols used.
- (i) A schedule showing all pertinent luminaire information.
- (j) Any other information as may be required by the plans examiner.
- (k) Selective coordination as required per 620.62, 700.27, 701.18 and 708.54 of this *Code*. To minimize arc flash, adjustable breaker settings shall not be set above .10 seconds.

(C) Advance Plan Examination. An architect or engineer registered in the State of Washington may apply for an electrical permit and may request an advance plan examination of electrical plans where the electrical contractor has not yet been selected. Upon submission of an application including required plans, and payment of fifty percent of the estimated permit fee, the authority having jurisdiction will review the application. If the application and plans are found to be in compliance with the Seattle Electrical Code, the authority having jurisdiction will approve the application and plans as ready for issuance. Neither the permit nor the plans can be issued



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until the remainder of the fee required by the Fee Subtitle is paid and the electrical contractor's name and license number is placed on the permit.