



May 18, 2010

Minor label installation for home-based electric vehicle supply equipment

Opportunity for public input:

Those who would like to provide public testimony may attend a public hearing on May 18, 2010 at 10:00 a.m. The hearing will be located at the Building Codes Division, Conference Room A. Written comments may also be submitted to the contact below. The last day to submit written comments is 5:00 p.m. May 21, 2010.

Live broadcast via the internet:

To view the public hearing live, click on "[View live meetings](#)"

Purpose of the rule:

This proposed rule allows certain home-based electric vehicle supply equipment (EVSE) units to be installed under an electrical minor label. The proposed rule also allows for the installation of a branch circuit not to exceed 40 amps/240 volts to service the EVSE.

This proposed rule would become effective July 1, 2010.

Citation:

Amend: OAR 918-311-0065

History:

Since the end of 2008 a significant numbers of electric vehicles began arriving to the northwest. In January 2009, the division adopted rules streamlining a process to promote the installation of public charging stations for electric vehicles.

Recently, Portland and the Willamette Valley were selected as one of five test areas for the rollout of the Nissan Leaf, an all-electric vehicle. One manufacturer has agreed to provide up to 900 home-based Electric Vehicle Supply Equipment (EVSE) units that will allow charging of an all-electric vehicle. These units are an improvement over the existing units; taking about half the time to charge a vehicle.

Currently, under the electrical minor label program, a new electrical circuit is limited to 30 amps or less. This proposed rule will establish specific limitations on the use of a minor label for this application. In order to streamline the installation of the EVSE units, the Electrical and Elevator Board, at the board's March 2010 meeting, recommended this proposed rule to go to public hearing

Contact:

If you have questions or need further information, please contact Hearing Officer Ree Armitage at 503-373-7401, or ree.c.armitage@state.or.us .



Secretary of State
NOTICE OF PROPOSED RULEMAKING HEARING*

A Statement of Need and Fiscal Impact accompanies this form.

Department of Consumer and Business Services, Building Codes Division	918
Agency and Division	Administrative Rules Chapter Number
Dolores Wagner	PO Box 14470, Salem, OR 97309
Rules Coordinator	(503) 373-1258
	Address Telephone

RULE CAPTION

Allows a minor label permit for the installation of electric vehicle charging units in residences.

Not more than 15 words that reasonably identifies the subject matter of the agency's intended action.

May 18, 2010	10:00 a.m.	1535 Edgewater Street NW, Salem, OR 97304	Ree Armitage
Hearing Date	Time	Location	Hearings Officer

Auxiliary aids for persons with disabilities are available upon advance request.

RULEMAKING ACTION

Secure approval of new rule numbers (Adopted or Renumbered rules) with the Administrative Rules Unit prior to filing.

ADOPT:

AMEND: 918-311-0065

REPEAL:

RENUMBER:

AMEND & RENUMBER:

Stat. Auth.: 455.065

Other Auth.:

Stats. Implemented: 455.065

RULE SUMMARY

The proposed rule would allow the use of an electrical minor label for the installation of electric vehicle supply equipment (EVSE) units in the garages of one and two family dwellings, reducing the number of required inspections to one in ten in certain specified installations. The proposed rule will streamline the process for installation of the units during the influx of these devices to Oregon and show Oregon is taking steps to facilitate emerging technology.

The Agency requests public comment on whether other options should be considered for achieving the rule's substantive goals while reducing the negative economic impact of the rule on business.

Friday, May 21, 2010 by 5:00 p.m.

Last Day for Public Comment (Last day to submit written comments to the Rules Coordinator)

	Patrick Allen	
Signature	Printed name	Date

*Hearing Notices published in the Oregon Bulletin must be submitted by 5:00 pm on the 15th day of the preceding month unless this deadline falls on a weekend or legal holiday, upon which the deadline is 5:00 pm the preceding workday. ARC 920-2005

Secretary of State
STATEMENT OF NEED AND FISCAL IMPACT

A Notice of Proposed Rulemaking Hearing or a Notice of Proposed Rulemaking accompanies this form.

Department of Consumer and Business Services, Building Codes Division

918

Agency and Division

Administrative Rules Chapter Number

Allows a minor label permit for the installation of electric vehicle charging units in residences.

Rule Caption (Not more than 15 words that reasonably identifies the subject matter of the agency's intended action.)

In the Matter of: Amending OAR 918-311-0065

Statutory Authority: ORS 455.065

Other Authority:

Stats. Implemented: ORS 455.065

Need for the Rule(s): The proposed rule facilitates a streamlined process for the installation of wall mounted electric vehicle supply equipment (EVSE) charging units in one and two family dwellings. Allowing specific installation standards for these devices under a minor label addresses the need Oregon will have in the coming months with regard to an influx of electric vehicles into the state. Oregon's Willamette Valley has been chosen as one of five test areas by the federal government for the rollout of approximately 900 Nissan Leaf electric vehicles to be purchased and driven by Oregonians beginning this fall. 900 home-based EVSE units will accompany the vehicles and a streamlined installation process will show Oregon's continued commitment to the governor's agenda addressing climate control, sustainability, and positioning Oregon in the new "green" economy.

Documents Relied Upon, and where they are available: Electrical and Elevator Board minutes from March 25, 2010; and draft rules are available from the division's rules coordinator located at 1535 Edgewater Street NW, Salem, OR 97304 and are available on the division's Web site at: www.bcd.oregon.gov.

Fiscal and Economic Impact: The proposed rule amendment may provide some economic benefit to licensed electricians and the electric vehicle customers by reducing the costs of permitting for installation of home-based EVSE units and expediting the permit/inspection process. The division does not have sufficient data to determine the exact economic impact.

Statement of Cost of Compliance:

1. Impact on state agencies, units of local government and the public (ORS 183.335(2)(b)(E)):

The department has determined that the Building Codes Division and the public are unlikely to be impacted by the proposed rule. Without the rule amendment local governments would have used standard permitting processes which may have contributed to higher permitting revenue.

2. Cost of compliance effect on small business (ORS 183.336):

a. Estimate the number of small businesses and types of business and industries with small businesses subject to the rule: Effect would be positive on small businesses and industries who are qualified to install EVSE units. There are 1,399 electrical contractors in the state. The electrical contractor would need to employ a licensed general supervising electrician (2,608 in OR) to accept responsibility for the work. A licensed general supervising electrician could also supervise a licensed general journeyman electrician (7,641 in OR) or a licensed limited residential electrician (735 in OR) in installing a EVSE unit. The division cannot determine the exact number of licensees that would be affected by this rule.

b. Projected reporting, recordkeeping and other administrative activities required for compliance, including costs of professional services: There are no additional record keeping or other administrative activities. The rule would streamline permitting because of being included in the minor label program.

c. Equipment, supplies, labor and increased administration required for compliance: No equipment, supplies, labor or increased administration in addition to existing rules would be required.

How were small businesses involved in the development of this rule? The Governor's Electric Vehicle project group was consulted about the rule concept and approved. EVSE manufacturers such as eTec were consulted by the project group and approved of the streamlined process.

Administrative Rule Advisory Committee consulted?: No

If not, why?: The Electrical and Elevator Board reviewed and approved these rules. The board represents a wide segment of industry. The Governor's Electric Vehicle project group as acted in a advisory role.

Patrick Allen

Signature

Printed name

Date

Administrative Rules Unit, Archives Division, Secretary of State, 800 Summer Street NE, Salem, Oregon 97310. ARC 925-2007

918-311-0065

Electric Vehicle Charging Station Statewide Permit and Inspection Protocol

To ensure a path for the emerging technology and enable the installation of charging stations for electric vehicles, the following permit and inspection protocols will apply throughout the state, notwithstanding contrary provisions contained in the **Oregon Electrical Specialty Code**.

(1) Building officials and inspectors shall permit and allow installation of an electric vehicle charging station that has a Building Codes Division's special deputy certification label without further testing or certification.

(2) Persons installing an electric vehicle charging station must obtain a permit for a feeder from the inspecting jurisdiction. No other state building code permit is required.

(3) The jurisdiction may perform up to two (2) inspections under the permit issued in subsection (2) above.

(4) Inspection of the installation is limited to examining the feeder for compliance with the following **Oregon Electrical Specialty Code** provisions:

- (a) Overcurrent protection, per articles 225 and 240;
- (b) Physical protection of conductors, per article 300;
- (c) Separation and sizing of the grounding and neutral conductors, per article 250.20; and
- (d) Provisions for locking out the breaker for maintenance, per chapter 4.

(5) For the purpose of this rule, the service, feeder, and charging station pedestal will be considered a single structure as defined by the **Oregon Electrical Specialty Code**. The structure's owner may opt to install a grounding electrode system to supplement lightning protection, but cannot be required to do so.

(6) Notwithstanding the electrical minor label program rules in 918-309-0220, an electrical contractor employing a general supervising electrician in accordance with OAR 918-282-0010 is authorized to use a minor installation label to install a listed wall mounted Electric Vehicle Supply Equipment (EVSE) unit in the garage of one and two family dwellings and to connect it to a new branch circuit limited to 40 amps, 240 volts. The electrical panel where the circuit originates must be in the garage within sight from the EVSE unit. This provision does not apply to installations in wet or damp locations.

Stat. Auth: ORS 455.065

Stat. Implemented: ORS 455.065

Hist.: BCD 16-2008(Temp), f. & cert. ef. 9-26-08 thru 3-25-09; BCD 30-2008, f. 12-31-08, cert. ef 1-1-09