



Code Amendment Proposal Application

Department of Consumer & Business Services

Building Codes Division

1535 Edgewater NW, Salem, Oregon

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Oregon.gov/bcd

Read the entire code amendment proposal application before completing this form. Please complete all parts before submitting your proposal and refer to the provided checklist.

APPLICANT INFORMATION

Name: Mike Stone		Date: November 4, 2022
Representing (if applicable): National Electrical Manufacturers Association		Work phone: (703) 841-3632
Mailing address: PO Box 227		Cell phone: (707) 495-8424
City: Dobbins	State: CA	Zip: 95935
Email address: mike.stone@nema.org		

PROPOSAL INFORMATION

Specialty code: Oregon Electrical Specialty Code
Code section(s): 230.67
Briefly explain the subject of your proposal: Delete the existing OESC amendment that removed the requirement for a surge-protective device (SPD) for dwelling unit services.

INSTRUCTIONS AND CHECKLIST

Fill in all the information above and submit this page, signed and dated, with the required supplementary information for Parts I, II, III, and IV described on page 2 of this application. This application may be submitted by mail to the mailing address above, or by email to BCD.PTSPtech@oregon.gov.

Summary checklist for the applicant:

- Part I** Code amendment language is attached in the proper format.
- Part II** Amendment proposal requirements for amending the code have been reviewed.
- Part III** Amendment proposal criteria questions have been answered and are attached.
- Part IV** If applicable, additional ORSC energy efficiency amendment proposal information is attached.

Note: One application is required for each code section you are proposing to amend. If this proposal requires changes in other sections of the code for alignment, include those changes as part of this application.

APPLICANT SIGNATURE

Signature: *Mike Stone NEMA* Date: November 4, 2022

Copyright notice: By signing this Code Amendment Proposal Application, I understand and acknowledge that the work contained in this application is original, or if not original, I have the right to copy the work. By signing this work, I understand that any rights I may have in this work, including any form of derivative works and compilations, are assigned to the Department of Consumer and Business Services Building Codes Division. I also understand that I do not retain or acquire any rights once this work is used in a Department of Consumer and Business Services Building Codes Division publication.

Proposal – OESC Section

1. Describe the concept and purpose of this proposal.

Current OESC language is as follows (underline indicates addition to model code language, strikeout indicates deletion of model code language):

“230.67 Surge Protection. Entire section: Not adopted by the State of Oregon”.

Proposed model code language is as follows (new OESC text is underlined):

“230.67 Surge Protection.

230.67(A) Surge-Protective Device.

All services supplying dwelling units shall be provided with a surge-protective device (SPD).

230.67(B) Location.

The SPD shall be an integral part of the service equipment or shall be located immediately adjacent thereto.

Exception: The SPD shall not be required to be located in the service equipment as required in (B) if located at each next level distribution equipment downstream toward the load.”

2. What problem in the existing Oregon code or national model code is this proposal solving? How does this amendment address the issue? If you have evidence demonstrating the problem, submit that information.

Surge protective devices help prevent damage to critical electrical equipment from surge damage from lightning, voltage crossover and power quality issues. Dwelling units contain important life safety devices such as smoke and carbon monoxide alarms, ground-fault circuit-interrupters and arc-fault circuit-interrupters. Damage to these types of devices is not usually apparent until the device fails to function when it is designed to. Inclusion of the proposed model code language will increase the life safety of the general public.

Helpful information

- a) If this proposal corrects any unforeseen or probable outcomes resulting from the application of a code section, explain how.

N/A

- b) If this proposal corrects inadequate application by a code section to a method, material or design, explain how.

N/A

- c) If this proposal eliminates conflicting, obsolete, or duplicative code provisions or standards between Oregon-adopted codes, statutes or regulations, explain why.

N/A

- d) If this proposal is for a fire or life safety matter, or is it otherwise needed to protect the health, safety, welfare, comfort and security of occupants and the public, explain why.

It is a fire and life safety matter. Devices such as smoke and CO alarms, GFCIs and AFCIs have been shown to save thousands of lives annually from home fires, carbon monoxide leaks and electrical hazards. Installation of surge protective devices will help maintain the proper functioning of these important life safety devices.

- e) If this proposal is necessary to address unique geographic or climatic conditions within Oregon, explain why.

N/A

- f) If there are alternatives to this proposal that solve the problem, explain why this proposal is the best or a necessary solution.

N/A

- g) If this proposal provides for the use of unique or emerging technologies, or promotes advances in construction methods, devices, materials and techniques, explain how.

N/A

- h) If this proposal meets any energy conservation or indoor air quality requirements, explain how.

N/A

- i) If this proposal involves the adoption of an electrical or plumbing building product, note if the appropriate advisory board approved the product.

N/A

3. Has this been proposed at the national model code level. If so, explain when it was proposed, what happened, and why it was not adopted. Provide all associated national model code hearing information and background.

Yes. The proposal IS the model code language.

Implementation and fiscal impact

- 1. Explain how the proposed provisions would be enforced? Are additional inspections or permits required? Describe any necessary equipment, training, tests or special certifications.**

Installation of surge protective devices is typically verified during the electrical service inspection.

- 2. What is the fiscal impact of this proposal? Provide a cost benefit analysis and include the resources or methods you used to determine the fiscal impact.**

Surge protective devices for whole house protection cost between \$54.00 to \$161.00. These are typical retail prices found online.

Helpful information

- a) If this proposal adds to the cost of construction, explain how the added cost contributes to the health and safety of occupants, or is necessary to conserve scarce resources.**

The added cost of surge protective devices contributes to the health and safety of occupancies by protecting critical life safety devices from being damaged by electrical surges.

If there are any other adverse fiscal impacts or cost savings passed on to the general public, the construction industry, local and state governments, and small businesses, an interested person must describe the added or reduced cost of a proposed code amendment, and describe the adverse fiscal impact or cost savings in relation to the current Oregon specialty code.

See item (b) below.

- b) If this proposal will affect the cost of development of a detached single-family dwelling, please indicate the cost. For the purposes of illustrating the change on the cost, please use a 6,000-square-foot parcel and the construction of a 1,200-square-foot detached single-family dwelling on that parcel. The information on the cost must be sufficient to assist the division in preparing a housing cost impact statement.**

The additional cost of surge protection for a 1,200-square-foot single-family dwelling would be between \$54.00 to \$161.00 plus the cost of installation. Some service equipment is provided with surge protection from the factory in which case the additional installation costs are minimal or none.

Impacted stakeholders and other specialty codes

1. It is important that proposals be shared with stakeholders that will be impacted by them. Was this proposal developed with people or organizations likely to be affected by it? Has it been reviewed or shared with people or organizations likely to be affected by it? If so, who, and if not, why not?

This proposal was developed by NEMA members and staff. It aligns with the model NEC and has been reviewed by the respective Code Making Panel members and stakeholders during NEC development processes.

2. Does this proposal impact other specialty codes or statewide programs?

N/A