



Code Amendment Proposal Application

Proposal 1

Department of Consumer & Business Services

Building Codes Division

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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: G.F. Scheuermann

Date: 17 February 2022

Representing (if applicable): IAPMO Group

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PROPOSAL INFORMATION

Specialty code: OR Commercial Reach Code

Code section(s): Wholly adopt 2020 WEstand (Water Efficiency & Sanitation Standard)

Briefly explain the subject of your proposal: 2020 WEstand, for commercial applications, mirrors WEstand adoption for Residential. Significant saving of water can be realized, reduces carbon footprint, results in cost reduction of construction & infrastructure.

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, and III listed in the following checklist. This application may be submitted by mail to the mailing address above, or by email to BCD.PTSPtech@oregon.gov.

Checklist:

- 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.

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:

Date:

17 February 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.

OR commercial Reach Code – Code Amendment Proposal Criteria

Proposal:

Q1. Describe the concept and purpose of this proposal.

A1. If the state of Oregon adopts the 2020 Water Efficiency and Sanitation Standard for the Built Environment (WEStand), as published by International Association of Plumbing and Mechanical Officials (IAPMO), the state will see increased efficiency over requirements of the Oregon Structural Specialty Code. 2020 WEstand is the only code of its sort focused on water and energy efficiency.

WEStand standard can be adopted to supplement existing codes. WEstand draws upon IAPMO's core competency and industry expertise in plumbing systems for the purpose of providing comprehensive requirements to optimize water use practices attributed to the built environment while maintaining protection of the public's health, safety, and welfare. This can be especially useful in Oregon where we need to be mindful of freshwater supplies and energy efficiency. Oregon Residential Reach Code adopted 2017 WEstand in its provisions in 2021. This proposal merely seeks to update Commercial Reach Code adoption to the most current version affording greater savings and efficiencies.

A copy of 2020 WEstand was provided in PDF format to Building Codes Division through Mr. Mark Heizer, most recently in December 2021. A copy (2017) was also submitted during the residential adoption process in 2021.

Q2. 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.

A2. This proposal provides Commercial construction similar opportunities to those found in residential. It updates Oregon's Reach Code to the latest edition of WEstand.

Q3. 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.

A3. 2020 WEstand is an American National Standards Institute (ANSI)-accredited standard. It was developed in ANSI open consensus format.

Implementation and Fiscal Impact:

Q1. Explain how the proposed provisions would be enforced. Are additional inspections or permits required? Describe any necessary equipment, training, tests, or special certifications.

A2. Reach code provisions are enforced through traditional inspection channels utilizing inspectors certified in a given discipline. There are no special permits, inspections, equipment, tests, or special certifications required beyond those typical in those given disciplines.

Q2. What is the fiscal impact of this proposal? Provide a cost benefit analysis and include the resources of methods you used to determine the fiscal impact.

A2. Applying provisions of Peak Water Demand Calculator (WDC) contained in 2020 WEstand can result in substantial savings, by achieving reduction in water meter size and related monthly charges for said meter. The example of water meter sizing (Portland) will serve to illustrate:

| Water Meter Size | Connection Fee | Water Service Fee |
|-------------------------|-----------------------|--------------------------|
| 5/8" | \$3,412 | \$57.91 |
| 3/4" | \$5,119 | \$57.91 |
| 1" | \$8,531 | \$63.46 |
| 1.5" | \$17,062 | \$77.35 |
| 2" | \$27,300 | \$107.74 |

As demonstrated above, substantial initial coast as well as monthly savings may be realized by WDC implementation.

Impacted Stakeholders and Other Specialty Codes:

Q1. 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?

A1. Yes. Recode Oregon. Zero Coalition. PHCC. United Associaton.

Q2. Does this proposal impact other specialty codes or statewide programs?

A2. Adoption of 2020 WEstand harmonizes with Oregon's specialty codes, it is not in conflict with them.