

WASHINGTON STATE BUILDING CODE COUNCIL
APPLICATION FOR REVIEW OF A PROPOSED STATEWIDE AMENDMENT
TO THE WASHINGTON STATE BUILDING CODE
2012 Code Adoption Cycle

Log # 13-E01
(office use only)

PLEASE FOLLOW INSTRUCTIONS ON PAGE FIVE

1. State Building Code to be Amended:

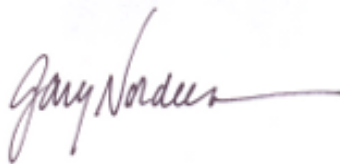
- | | |
|---|---|
| <input type="checkbox"/> International Building Code | <input checked="" type="checkbox"/> State Energy Code |
| <input type="checkbox"/> International Existing Building Code | <input type="checkbox"/> International Mechanical Code |
| <input type="checkbox"/> ICC ANSI A117.1 Accessibility Code | <input type="checkbox"/> International Fuel Gas Code |
| <input type="checkbox"/> International Residential Code | <input type="checkbox"/> NFPA 54 National Fuel Gas Code |
| <input type="checkbox"/> International Fire Code | <input type="checkbox"/> NFPA 58 Liquefied Petroleum Gas Code |
| <input type="checkbox"/> Uniform Plumbing Code | |

Section 405.3 **Page** _____

2. Applicant Name (Specific local government, organization or individual):

Gary Nordeen, Washington State University Energy Program

3. Signed:

 Sr. Bldg. Science Spec.

_____	_____	<u>2/14/13</u>
Proponent	Title	Date

4. Designated Contact Person:

<u>Gary Nordeen</u>	<u>Senior Building Science Specialist</u>
Name	Title

Address: 905 Plum Street SE
Olympia, WA 98504-3165

Office Phone: (360) 956-2040 **Cell:** ()

E-Mail address: nordeeng@energy.wsu.edu

Proposed Code Amendment. Reproduce the section to be amended. Underline all added language, strike through all deleted language. Insert any separate new sections in the appropriate place in the code in order to continue the established numbering system of the code. If more than one section is proposed for amendment or more than one page is needed for reproducing the affected section of the code, additional pages may be attached. (Please indicate number of additional pages below)

Code WSEC Section R405.3 Page _____

Amend section to read as follows:

R405.3 Performance-based compliance. Compliance based on simulated energy performance requires that a proposed residence (*proposed design*) be shown to have an annual energy consumption based on site energy expressed in Btu and Btu per square foot of *conditioned floor area* as follows:

1. For structures less than 1,500 square feet of conditioned floor area, the annual energy consumption shall be less than or equal to ~~97~~ 92 percent of the annual energy consumption of the *standard reference design*.
2. For structures 1,500 to 5,000 square feet of conditioned floor area, the annual energy consumption shall be no more than ~~89~~ 84 percent of the *standard reference design*.
3. For structures over 5,000 square feet of conditioned floor area, the annual energy consumption shall be no more than ~~83~~ 76 percent of the *standard reference design*.

Are additional pages attached? Yes No **X**

Please note number of additional pages:

Supporting Data for Statewide Amendment Proposals This information is required for all statewide amendment proposals. **Attach supporting documentation, as necessary; incomplete proposals will not be accepted.**

The SBCC requires supporting data on any amendment proposal to show:

- a. That it meets basic criteria – See Part I to specify how this proposal meets the criteria for code amendment.
- b. The intended effect—See Part II to describe the purpose of the proposed amendment, including the benefits and the problems addressed.
- c. The potential impacts or benefits on business—See Part III/Types of Construction, to explain how methods in construction businesses, industries and services would be affected.
- d. The potential impact on enforcement procedures, See Part III/Types of Services Required, to provide some analysis of the impacts on code enforcement in local jurisdictions.
- e. Economic costs and benefits – Use the Table in Part IV of this form to estimate the costs and benefits of the proposal on the construction industry, the user and/or public, the enforcement community, and operation and maintenance.

Part I ❖ Background information on amendment.

Code References: R405.3 Title: WSEC

Related codes: None (Does this amendment change other related codes?)

Proponent: Gary Nordeen Phone: 360-956-2040 Date: 2/14/13

NOTE: State-wide and emergency state-wide amendments to the state building code must be based on one of the following criteria; please indicate the pertinent rationale for the proposed amendment by selecting from the list below:

- (1) The amendment is needed to address a critical life/safety need.
- (2) The amendment is needed to address a specific state policy or statute.
- (3) The amendment is needed for consistency with state or federal regulations.
- (4) The amendment is needed to address a unique character of the state.
- (5) The amendment corrects errors and omissions.

Part II ❖ Amendment Benefit:

PROBLEM(S) ADDRESSED (Describe the intended effect of the proposed code amendment):

WSEC Section 405.3 states required efficiency percentages when a structure uses Simulated Performance Alternative compliance method, previously referred to as Systems Analysis. If the proposal to increase energy credits listed in R406.2 is accepted this change is needed to insure that the credits in 405.2 align with 406.2.

PRIMARY REASON FOR AMENDMENT: (Describe how the amendment meets one of the criteria listed above) _____

The amendment is needed for consistency with state or federal regulations.

TYPE OF BENEFITS PROJECTED: Maintain consistency of efficiency requirements.

Part III ❖ Amendment Impacts or Benefits:

TYPES OF CONSTRUCTION: New Construction Alteration/Tenant Improvement/Repair
 Residential-Single Family Residential-Multi Family Commercial Industrial

List businesses/industries affected by amendment

Fire Protection Industry: _____
 Specific Construction Contractors & Trades: General contractors
 Construction Supply Industry: _____
 Specialty Trades: Designers, engineers
 Types of Buildings: _____
 Manufacturers: _____

Types of Services Required:
 List any reporting, record keeping or other requirements. Indicate if equipment, material or services required by this proposal are available from multiple sources. None.

Part IV ❖ Amendment Costs and Benefits

Building Type	Construction ¹			Enforcement ²			Operations & Maintenance ³		
	Costs	% impact ⁴	Benefits ⁵	Costs	% impact ⁴	Benefits ⁵	Costs	% impact ⁴	Benefits ⁵
Residential									
Single family									
Multi-family									
Commercial/Retail									
Industrial									
Institutional									

See letter to SBCC

¹ \$ / square foot of floor area or other cost. Attach data. **Construction** costs are costs prior to occupancy, and include both design and direct construction costs that impact the total cost of the construction to the owner/consumer.

² Cost per project plan. Attach data. **Enforcement** costs include governmental review of plans, field inspection, and other action required for enforcement.

³ Cost/benefits to building owner/tenants over the life of the project.

⁴ Cost differential over a specific size project or range of projects as determined by the proponent. Provide sufficient cost and benefit detail to clarify the impact to the Council. All data should be created and referenced to third party reputable sources for verification.

⁵ Include measurable benefit to the user and/or public from Part II.