

**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-E02  
(office use only)

PLEASE FOLLOW INSTRUCTIONS ON PAGE FIVE

**1. State Building Code to be Amended:**

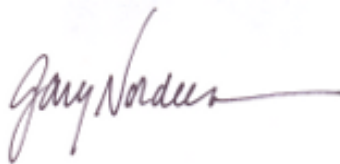
- |   |   |
|---|---|
| <input type="checkbox"/> International Building Code          | <input checked="" type="checkbox"/> State Energy Code         |
| <input type="checkbox"/> International Existing Building Code | <input type="checkbox"/> International Mechanical Code        |
| <input type="checkbox"/> 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** 406.2 **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>
<b>Proponent</b>	<b>Title</b>	<b>Date</b>

**4. Designated Contact Person:**

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

**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 R406.2 Page \_\_\_\_\_

Amend section to read as follows:

R406.2 Additional Energy Efficiency Requirements. (Mandatory) Each dwelling unit in one and two-family dwellings and townhouses, as defined in Section 101.2 of the International Residential Code shall comply with sufficient options from Table R406.2 so as to achieve the following minimum number of credits:

1. Small Dwelling Unit: ~~0.5~~ 1 points

Dwelling units less than 1500 square feet in conditioned floor area with less than 300 square feet of fenestration area. Additions to existing building that are less than 750 square feet of heated floor area.

2. Medium Dwelling Unit: ~~1.5~~ 2.0 points

All dwelling units that are not included in #1 or #3.

3. Large Dwelling Unit: ~~2.5~~ 3.0 points

Dwelling units exceeding 5000 square feet of conditioned floor area.

The drawings included with the building permit application shall identify which options have been selected and the point value of each option, regardless of whether separate mechanical, plumbing, electrical, or other permits are utilized for the project.

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: R406.2 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):

During the 2012 WSEC code change process The US Department of Energy stated that on May 1, 2013 the minimum furnace efficiency was being raised from 78% to 90% in northern tier, heating dominated states including Washington State. Due to a lawsuit by the American Public Gas Association and ACCA, USDOE has suspended the May 1 furnace efficiency implementation date indefinitely. Energy efficiency improvements to the 2012 WSEC took credit for the planned USDOE raise in efficiency requirements for gas fueled furnaces to 90%. Reducing minimum federal furnace efficiencies to 78% requires raising the number of additional energy efficiency credits by .5 points to all dwelling sizes to maintain the efficiency gained during the 2012 code change process and meet the incremental improvements required by RCW 19.27.160.

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: \_\_\_Allows credit 3a to have equivalent energy savings to the other options in Table 406.2

**Part III ❖ Amendment Impacts or Benefits:**

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

List businesses/industries affected by amendment

Fire Protection Industry: \_\_\_\_\_  
 Specific Construction Contractors & Trades: General and HVAC contractors  
 Construction Supply Industry: \_\_\_\_\_  
 Specialty Trades: \_\_\_\_\_  
 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. \_\_\_No record keeping required. 95% efficient HVAC equipment is widely available.

**Part IV ❖ Amendment Costs and Benefits**

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

See letter to SBCC

<sup>1</sup> \$ / 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.

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

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

<sup>4</sup> 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.

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