Code being amended:  
☐ Commercial Provisions  
☒ X Residential Provisions

Code Section #  R403

Brief Description:
Add a HVAC and service water heating equipment reference tables by reference to equipment performance requirements in the commercial code.

Proposed code change text:

**R403.0 HVAC equipment performance requirements.** Equipment shall meet the minimum federal efficiency standards as referenced in the efficiency requirements of Tables C403.2.3(1), C403.2.3(2), C403.2.3(3), C403.2.3(4), C403.2.3(5), C403.2.3(6), C403.2.3(7), C403.2.3(8) and C403.2.3(9) tested and rated in accordance with the applicable test procedure.

**C403.5.0 Service water-heating equipment performance requirements.** Service water-heating equipment shall meet the requirements of DOE 10 CFR Part 430 Uniform Energy Factor or the equipment shall meet the requirements C404.2.

**R403.5 Service hot water systems.** Energy conservation measures for service hot water systems shall be in accordance with Sections R403.5.1 through R403.5.5.

Purpose of code change:

There are no references to the required minimum equipment or equipment test procedures in the current residential sections of the code. This is published in the commercial code. This provides references from the commercial code.

For small water heating equipment, ASHRAE 90.1 2016 simply refers to the DOE 10 CFR Part 430 Uniform Energy Factor. This energy factor is unique to small systems and is the only reference needed.

These have been numbers “0” to avoid renumbering the entire section.

Your amendment must meet one of the following criteria. Select at least one:

☐ Addresses a critical life/safety need.  
☒ X Consistency with state or federal regulations.  
☐ The amendment clarifies the intent or application of the code.  
☐ X Addresses a unique character of the state.  
☐ Addresses a specific state policy or statute.  
(Use that energy conservation is a state policy)  
☐ X Corrects errors and omissions.
Check the building types that would be impacted by your code change:

- X Single family/duplex/townhome
- X Multi-family 1 – 3 stories
- Commercial / Retail
- Multi-family 4 + stories
- Institutional
- Industrial

Your name: Bill Kraus
Your organization: Commerce, State Energy Office
Other contact name: Chuck Murray

Email address: bill.kraus@commerce.wa.gov
Email address: chuck.murray@commerce.wa.gov
Phone number: 360-725-5011
Phone number: 360-725-3113

**Economic Impact Data Sheet**

Briefly summarize your proposal’s primary economic impacts and benefits to building owners, tenants and businesses.

**There is no economic impact.**

Provide your best estimate of the construction cost (or cost savings) of your code change proposal? (See OFM Life Cycle Cost Analysis tool and Instructions; use these Inputs. Webinars on the tool can be found Here and Here)

Click here to enter text./square foot (For residential projects, also provide Click here to enter text./ dwelling unit)

Show calculations here, and list sources for costs/savings, or attach backup data pages

Provide your best estimate of the annual energy savings (or additional energy use) for your code change proposal?

Click here to enter text.KWH/ square foot (or) Click here to enter text.KBTU/ square foot

(For residential projects, also provide Click here to enter text.KWH/KBTU / dwelling unit)

Show calculations here, and list sources for energy savings estimates, or attach backup data pages

List any code enforcement time for additional plan review or inspections that your proposal will require, in hours per permit application:

This code change supports code enforcement by providing good references to existing standards.