



Washington State Building Code Council

Improving the built environment by promoting health, safety and welfare

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STATE BUILDING CODE OPINION NO. 24-34

CODE: 2021 Washington State Energy Cod

SECTION: C404.2.1.4 Supplemental Water Heating

QUESTION 1: Per Section C404.2.1.4, supplemental heating capacity is permitted to be used for temperature maintenance, defrost of compressor coils, freeze protection, and for back-up capacity during low ambient temperature conditions or in the event of equipment failure. The total summed output capacity of all sources of supplemental water heating energy shall not exceed the total summed output capacity of all primary service water heating systems and equipment during peak service hot water demand. Does the total summed output capacity for supplemental water heating energy include the proposed capacities for all permitted uses for domestic hot water combined?

ANSWER 1: **Yes. Please note, however, that this would not include the capacity for pool and spa water heating.**

QUESTION 2: For the purpose of determining the supplemental heating output capacity allowance, does this calculation include the output capacities (during peak service hot water demand) of all sources of domestic hot water, excluding pools and spas, including sources that comply with exception(s) to C404.2.1?

ANSWER 2: **No. Capacities that comply with exceptions to C404.2.1 would not be included in the calculation.**

QUESTION 3: Can supplemental water heating capacity be provided by fossil fuel and/or electric resistance service water heating equipment without triggering the requirement to demonstrate compliance with Section C401.3 fossil fuel compliance path?

ANSWER 3: **Yes. Per Section C404.2.1, “Supplemental service water heating equipment is permitted to use electric resistance or fossil fuel in compliance with Section C404.2.1.4.”**

SUPERSEDES: None

REQUESTED BY: King County