



# Washington State Building Code Council

*Improving the built environment by promoting health, safety and welfare*

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## STATE BUILDING CODE OPINION NO. 21-05

**CODE:** 2018 Washington State Energy Code - Commercial

**SECTION:** C403.1.1, Total System Performance Ratio

**QUESTION 1:** Since the zone air distribution effectiveness does not appear to be a user-specified input within the TSPR tool, can systems utilizing low-velocity displacement ventilation (meeting footnote e of Table 403.3.1.1.1.2 of the 2018 IMC) with a zone air distribution effectiveness = 1.2 utilize exception #6 of Section C403.1.1?

**ANSWER:** **Yes. Given the similar zone air distribution effectiveness, displacement ventilation can utilize Exception 6.**

**QUESTION 2:** Is TSPR required if the proposed system is listed in Table D601.11.1 but includes a proposed building system parameter in Table D601.11.2 that is not applicable to the proposed system type? Example: DOAS + FCU with airside economizer, which is a system type listed in Table D601.11.1 (Systems #6 & 12) so exception #3 of Section C403.1.1 does not apply. However, System #6 is not noted as being available for simulation with airside economizer per Table D601.11.2.

**ANSWER:** **No. TSPR applies to all systems listed in Table D601.11.1. However, if a proposed system includes a proposed building system parameter in Table D601.11.2 that is not noted as applicable for that system in the “Applicable Systems” column, then that proposed design configuration is exempt from TSPR.**

**SUPERSEDES:** None

**REQUESTED BY:** City of Bellevue