

CERTIFICATE OF SERVICE

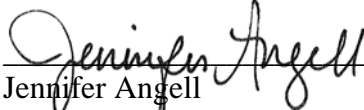
I certify that I served a true and correct copy of PacifiCorp's Direct Testimony in docket UM 1910 on the parties listed below via electronic mail in compliance with OAR 860-001-0180.

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Dated November 30, 2017.



 Jennifer Angell
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