CERTIFICATE OF SERVICE

I hereby certify that I have this day served **Pacific Power's 2019 IRP—Second Supplemental Filing** upon all parties of record in this proceeding, by overnight mail and electronic transmission to the email address(es) of each party or party representative listed in the commission's master service list for this docket.

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Dated at Portland, Oregon this 8th day of November, 2019.

Mary Penfield

Adviser, Regulatory Operations