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2019 Wind Project Performance Annual Report

In the Settlement Stipulation approved by the Commission in our last rate case (Docket No. EL14-058), the Company agreed to report information related to capital costs, operating costs and energy production for the Pleasant Valley and Borders wind facilities once they are completed and in operation. We agreed to provide this data beginning with the first October 1 Annual Infrastructure Rider Update following completion of the projects' construction and to continue annually until each project is moved into base rates. As part of the Settlement Stipulation approved in the 2015 Annual Infrastructure Rider Update (Docket No. EL15-038), we also agreed to include information about the Courtenay wind facility in the report once the project was complete and in service. In the Company's October 1, 2018 Infrastructure Rider Petition in Docket No. EL18-040, the Company committed to reporting the same information for the new wind facilities included in the Petition – Blazing Star I, Crowned Ridge, Foxtail, and Lake Benton.¹ This report contains wind facility data for calender year 2019 for the wind facilities placed in-service before the end of that year.

The Commission's December 13, 2019 Order in Docket No. EL19-035 requires the Company to submit annual informational reports on the performance metrics of the Blazing Star II and Freeborn wind projects; however, at that time these projects were forecasted to be placed in-service in 2020, so there is no 2019 data to report. As discussed in this Petition, the Freeborn project has experienced additional construction delays and is now forecasted to be placed in-service in 2021. We will add each of these projects to this wind report in the reporting year each is placed in-service.

Pleasant Valley

The Pleasant Valley Wind Farm has an operating capacity of 200 MW and was placed in-service in November 2015. Total capital cost to build the facility, including transmission, but excluding AFUDC, was \$331.8 million through 2019. This is less than our initially forecasted project cost of \$342.9 million. For 2019, the facility's O&M expenditure was \$5,666,839, and the native congestion and loss cost for the facility was \$1,977,843. Attachment A provides detailed monthly information about

¹ We note that while the Blazing Star I project had been forecasted to be placed in-service in December 2019, it was not placed in-service until April 2020, so there is no 2019 data for this wind facility to report. As reported in our October 1, 2019 Petition in Docket No. EL19-035, the Crowned Ridge project's expected in-service date has been delayed from December 2019 to December 2020, so there is no 2019 data for this wind facility to report.

the plant's performance in 2019, including the amount of energy produced, curtailment, average wind speed, and average net capacity factor.

	Capital to Date	O&M	Congestion	Loss	Total
2016	\$332,065,758	\$5,721,195	\$688,514	\$277,899	\$966,413
2017	\$331,699,144	\$7,372,656	\$248,007	\$248,007	\$496,013
2018^{2}	\$331,791,894	\$4,982,159	\$803,679	\$340,362	\$1,144,041
2019	\$331,791,894	\$5,666,839	\$1,573,415	\$404,457	\$1,977,843

Pleasant	Val	llev	Costs
		- 1	

Borders

The Borders Wind Farm has an operating capacity of 150 MW and was placed inservice in December 2015. Total capital cost to build the facility, including transmission, but excluding AFUDC, was \$261.6 million through 2019. This is slightly less than our initially forecasted project cost of \$261.8 million. For 2019, the facility's O&M expenditure was \$3,151,033, and the native congestion and loss cost for the facility was \$1,674,369. Attachment A provides detailed monthly information about the plant's performance in 2019, including the amount of energy produced, curtailment, average wind speed, and average net capacity factor.

	Capital to Date	O&M	Congestion	Loss	Total
2016	\$261,264,067	\$4,538,134	\$1,721,177	\$1,206,315	\$2,927,492
2017	\$261,685,798	\$4,879,690	\$796,022	\$1,213,285	\$2,009,307
2018 ³	\$261,586,803	\$2,792,178	\$95,735	\$738,778	\$834,513
2019	\$261,586,803	\$3,151,033	\$897,616	\$776,752	\$1,674,369

Borders Costs

Courtenay Wind Farm

The Courtenay facility has an operating capacity of 200 MW and was placed in-service in December 2016. Total capital cost to build the facility, including transmission, but excluding AFUDC, was \$289.9 million through 2019. This is less than our initially forecasted project cost of \$300 million. For 2019, the facility's O&M expenditure was \$3,962,437, and the native congestion and loss cost for the facility was \$1,837,835. Attachment A provides detailed monthly information about the plant's performance

² Please note that due to a database error, the 2018 Congestion, Loss, and Total costs provided in Docket No. EL19-035 for Pleasant Valley, Borders, and Courtenay Wind Farms only reflected the Day Ahead market and did not include the Real Time data as they had in previous years. We have updated the 2018 costs in this filing to also include the Real Time data.

³ See footnote 2.

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in 2019, including the amount of energy produced, curtailment, average wind speed, and average net capacity factor.

	Capital to Date	O&M	Congestion	Loss	Total
2016	\$286,031,744	\$1,318,236	\$206,724	\$255,027	\$461,751*
2017	\$287,031,302	\$5,724,832	\$1,644,197	\$1,481,164	\$3,125,361
2018 ⁴	\$286,946,605	\$4,929,521	\$978,777	\$1,152,024	\$2,130,800
2019	\$289,949,324	\$3,962,437	\$947,646	\$890,189	\$1,837,835

Courtenay	Costs
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*Online for testing Aug-Dec 2016

Foxtail

The Foxtail facility has an operating capacity of 150 MW and was placed in-service in December 2019. Total capital cost to build the facility, including transmission, but excluding AFUDC, was \$239.4 million through 2019. This is less than our initially forecasted project cost of \$242.4 million, adjusted for impacts from the Tax Cuts and Jobs Act. For 2019, the facility's O&M expenditure was \$50,070, and the native congestion and loss cost for the facility was \$18,650. Attachment A provides detailed monthly information about the plant's performance in 2019, including the amount of energy produced, curtailment, average wind speed, and average net capacity factor.

Foxtail Costs

	Capital to Date	O&M	Congestion	Loss	Total
2019	\$239,372,031	\$50,070	\$9,991	\$8,659	\$18,650

Lake Benton

The Lake Benton facility has an operating capacity of 100 MW and was placed inservice in November 2019. Total capital cost to build the facility, including transmission, but excluding AFUDC, was \$152.8 million through 2019. This is less than our initially forecasted project cost of \$166.7 million, adjusted for impacts from the Tax Cuts and Jobs Act. For 2019, the facility's O&M expenditure was \$173,537, and the native congestion and loss cost for the facility was \$258,192. Attachment A provides detailed monthly information about the plant's performance in 2019, including the amount of energy produced, curtailment, average wind speed, and average net capacity factor.

⁴ See footnote 2.

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Lake Benton Costs

	Capital to Date	O&M	Congestion	Loss	Total
2019	\$152,817,558	\$173,537	\$132,139	\$126,053	\$258,192