

**EXH. PKW-19C
DOCKETS UE-170033/UG-170034
2017 PSE GENERAL RATE CASE
WITNESS: PAUL K. WETHERBEE**

**BEFORE THE
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

**Docket UE-170033
Docket UG-170034**

**FOURTH EXHIBIT (CONFIDENTIAL) TO THE
PREFILED REBUTTAL TESTIMONY OF**

PAUL K. WETHERBEE

ON BEHALF OF PUGET SOUND ENERGY

**REDACTED
VERSION**

AUGUST 9, 2017

Comparison of Actual and Projected Wind Generation Capacity Factors

Resource	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Average	Pre Construction Forecast	2010 DNV Forecast	2016 Forecast	
	Hopkins Ridge	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Wild Horse	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Wild Horse Expansion	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	n/a	XXX
Lower Snake River	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	n/a	XXX
Klondike III	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	n/a	XXX

A capacity factor is "the ratio of the electrical energy produced by a generating unit for the period of time considered to the electrical energy that could have been produced at continuous full power operation during the same period." Source: <https://www.eia.gov/tools/glossary/index.php?id=C>

Capacity factors provided for full years of data.

Hopkins Ridge preconstruction reflects 2005 adjustment and 2007 infill.

Klondike III 2016 forecast provided by Avangrid, others provided by Vaisala.