

Exh. RMM-5
Docket UE-19____
Witness: Robert M. Meredith

**BEFORE THE WASHINGTON
UTILITIES AND TRANSPORTATION COMMISSION**

WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,

Complainant,

v.

PACIFICORP dba
PACIFIC POWER & LIGHT COMPANY

Respondent.

Docket UE-19____

**PACIFICORP
EXHIBIT OF ROBERT M. MEREDITH
Renewable Future Peak Credit Calculation**

December 2019

PacifiCorp
State of Washington
Classification of Fixed Generation Costs

Washington Pumped Storage, 1,200 MW X 16,800 MWh

1	Fixed Cost per kW-year ¹	\$179.48	
2	Cost per MWh to Charge ²	\$27.13	
3	Hours of Operation	12	
4	Storage Efficiency ²	79%	
5	Total Cost of Charging	\$0.41	Line 2 / 1000 / Line 4 X Line 3
6	Total Cost 1 kW-year, 12 Hours	\$179.89	Line 1 + Line 5

3.6 MW Turbine 43.6% Capacity Factor WY, 2020 (100% PTC)

7	Fixed Cost per kW-year ³	\$118.59	
8	Average Output Requirement @ 53.6% Load Factor ⁴	5,554	8,760 X 63.4%
9	Output @ 43.6% Capacity Factor ³	3,819	8,760 X 43.6%
10	Total kW Capacity Required	1.45	Line 8 / Line 9
11	Total Fixed Costs	\$172.45	Line 7 X Line 10
12	Demand Related Cost @ 19% Capacity Contribution ⁵	\$49.59	Line 10 X 19% X Line 1
13	Total Energy Related Cost	\$122.86	Line 11 - Line 12
14	Demand Component	59%	Line 6 / (Line 6 + Line 13)
15	Energy Component	41%	100% - Line 14