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Representing Wasatch Wind

BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

IN THE MATTER OF THE PETITION OF
WASATCH WIND, LLC FOR APPROVAL
OF A CONTRACT FOR THE SALE OF
CAPACITY AND ENERGY FROM THEIR
PROPOSED QF FACILITIES

DOCKET NO. 06-035-42

IN THE MATTER OF THE APPLICATION
OF PACIFICORP FOR APPROVAL OF
POWER PURCHASE AGREEMENT
BETWEEN PACIFICORP AND SPANISH
FORK WIND PARK 2, LLC

DOCKET NO. 06-035-76

PREFILED PRELIMINARY DIRECT TESTIMONY OF MICHAEL UNGER

Wasatch Wind hereby submits the Prefiled Testimony of Michael Unger in this docket.

DATED this 12th day of January, 2007.

Richard S. Collins

/s/ _____
Richard S. Collins
Representing Wasatch Wind

CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing was sent by United States mail, postage prepaid, or by email this 11 day of, July 2005, to the following:

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PREFILED TESTIMONY

Of

MICHAEL UNGER

On behalf of Wasatch Wind

IN THE MATTER OF THE PETITION OF WASATCH WIND, LLC FOR APPROVAL OF A
CONTRACT FOR THE SALE OF CAPACITY AND ENERGY FROM THEIR PROPOSED
QF FACILITIES

Docket No. 06-035-42

IN THE MATTER OF THE APPLICATION OF PACIFICORP FOR APPROVAL OF POWER
PURCHASE AGREEMENT
BETWEEN PACIFICORP AND SPANISH FORK WIND PARK 2, LLC

Docket No. 06-035-76

January 12, 2007

1 **Q. Please state your name and occupation.**

2 A. My name is Michael Unger. I am a Consultant with Elcon Associates, Inc.
3 located at 12670 NW Barnes Road, Portland, Oregon.

4 **Q. On whose behalf are you filing testimony in this Docket?**

5 A. Wasatch Wind, LLC

6 **Q. Have you submitted testimony to this Commission before?**

7 A. No, I have not.

8 **Q. Do you have experience in utility regulatory matters?**

9 A. Yes. I have a Bachelor's degree in Engineering Science from the University of
10 Portland in Oregon and a Master's Degree in Electrical Engineering from
11 Stanford University. I have 35 years of experience in system planning for
12 electrical transmission and distribution systems.

13 **Q: What is the purpose of your testimony in this docket?**

14 **A:** I directed the research performed by Power World to run various power flow
15 studies to estimate the avoided line losses associated with Spanish Fork Wind
16 Park 2. Several runs were made to estimate the impact of Spanish Fork's output
17 on PacifiCorp's system compared to the Wolverine wind facility located in Idaho.

18 **Q: What were your findings?**

19 **A:** In every case except one, we found that the Spanish Fork wind facility reduced
20 line losses in comparison to the Wolverine wind facility. Averaging the results
21 over the eleven runs shows that Spanish Fork wind facility will reduce line losses
22 by 3.3 % in comparison to the Wolverine wind facility.

1 **Q: Do you have an exhibit of the model results?**

2 **A:** Yes, I do. The results are in Appendix A attached to my testimony.

3 **Q: What conclusions can you draw from your analysis?**

4 **A:** I find that there is evidence that the addition of Spanish Fork Wind Park 2 to the
5 PacifiCorp system in most cases will reduce line losses in the absolute sense and
6 provide fewer line losses in comparison to the Wolverine wind facility.

7 **Q: Does that complete your testimony?**

8 **A:** Yes, it does.