Response to Information Request SD-OTP-27
Page 1 of 1

OTTER TAIL POWER COMPANY
Docket No: EL10-011

Response to: Otter Tail Power Company
Analyst: Bryan D. Morlock
Date Received: 03/14/2011
Date Due: ASAP
Date of Response:
Responding Witness:

Question No. : SD-OTP-27

Question SD-OTP-6 specifically asked how other utilities treat wind in their IRP modeling. You have criticized Otter Tail for its approach to modeling of wind. Your response to SD-OTP-6 provided language from IRPs of other utilities that characterized wind. However, you did not provide any information on how these utilities actually modeled the wind. Please explain how these other utilities have treated wind in their modeling.

SUPPLEMENTAL RESPONSE:

Pursuant to our phone conversation of March 22, 2011, this supplemental answer reflects Mr. Evans' opinion of the method which may be used to model wind in IRP-manager. As discussed in that conversation, the earlier responses to SD-OTP-06 and SD-OTP-07, were considered unsatisfactory. As such, the request was made that Mr. Evans provide his opinion of how to model wind in IRP-manager as opposed to the initial request of how other utilities model wind.

Supplemental Response:
IRP-Manager does not have the capability to properly model wind resources. However, the intermittent nature of wind can be artificially captured to some extent in IRP-Manager through the following steps:

1. Increase the spinning reserves requirement to include the required back-up for wind resources.
2. Include other wind integration costs (excluding the costs of additional spinning reserves) as a $/MWh adder to the $/MWh costs of each wind resource.