

QUALIFICATION STATEMENT OF
BARTHOLOMEW A. McMANUS

Witness for the Bonneville Power Administration

Q. Please state your name, employer, and business address.

A. My name is Bartholomew A. McManus. I am an employee for the Bonneville Power Administration, 5411 NE Hwy 99, Vancouver, WA 98666.

Q. In what capacity are you employed?

A. I am an Electrical Engineer in Technical Operations in charge of Automatic Generation Control (AGC).

Q. Please state your educational background.

A. I received a Bachelor of Science in Electrical Engineering (BSEE) from the University of Washington in 1993.

O. Please summarize your professional experience.

A. I was hired by BPA in October, 1994. I was the programmer for the Automatic Generation Control (AGC) system for approximately nine years. In 2003, I moved to the Technical Operations section and took charge of AGC for BPA. In this position I insure our AGC system operates correctly with respect to national and regional standards. I have been involved with wind integration issues since 2006 and am the technical lead for transmission on our Wind Integration Team. I was a member of the Western Electricity Coordinating Council (WECC) Performance Work Group, North American Electric Reliability Corporation (NERC) Resources Subcommittee and the Northwest Power Pool (NWPP) from 2003 through 2007. I was a member of the WECC Control work group from 1995 through 2003, serving as chair from 1998 through 2003. I am also a member of multiple transmission operations-related taskforces and committees, including: WECC Operating Committee, WECC Technical Operations Subcommittee, the newly formed WECC Variable Generation Subcommittee and NWPP Operating Committee.

1 *Q.* *Please state your experience as a witness in previous BPA proceedings.*

2 A. I have not participated as a witness in previous BPA proceedings but did participate in
3 the Wind Integration Rate case for 2009.