



**BPA Wind Integration Team Initiatives
Update to WIT E-mail List
December 16, 2009**

Thank you for your continued interest in the Wind Integration Team initiatives of the Bonneville Power Administration. Here is a summary of our activities since mid-November.

DSO-216 “Strike” protocol refined: BPA has clarified its criteria for assessing “strikes” under its operating protocols for wind generators known as Dispatchers Standing Order 216. The changes are based on feedback and comments on a November [draft white paper](#) and information provided by wind turbine manufacturers and wind project operators. BPA will:

- (1) waive “strikes” sustained under the protocol through Dec. 11, 2009;
- (2) implement a small dead band around the target generation limit each time the protocol is implemented; and
- (3) adopt specific criteria for waiving strikes.

These refinements will make it physically easier for wind projects to avoid strikes, protect transmission system reliability and avoid increasing demands on the Federal Columbia River Power System. We appreciate the constructive and collaborative response of all parties in developing these refinements. For details, see [Final Clarifications on the DSO 216](#).

“Strikes” may be assessed if a wind project fails to reach a generation limit specified by BPA dispatchers to avoid exhausting balancing reserves. A generator assessed three strikes in 24 months would be required to receive generation limits directly from BPA’s energy management system.

Intra-Hour Scheduling Pilot launched, working: On Dec. 1, BPA began its pilot project to allow scheduling transmission on the half-hour, as planned. The first transaction was completed that same day when Iberdrola Renewables sold two megawatts of wind power to Chelan County PUD for half-an-hour. A second half-hour transaction occurred Dec. 5. The pilot project continues through March. BPA will use information collected during the pilot to evaluate whether to continue, expand or end the pilot.

Watch for draft business practices on dynamic transfers: In early January, BPA plans to post a draft pilot business practice on how customers might acquire access to dynamic transfer capability from BPA, if a study due Feb. 15, 2010, shows incremental transfer capability is available. The dynamic transfers study and methodology will determine how much additional dynamic transfer capability BPA has on four inter-regional interties and on seven network transmission paths. Developing a draft business practice early will allow BPA to allow use of any additional available transfer capability as quickly as possible.

All anemometer data to flow by Jan. 8, 2010: BPA has revised the schedule for connecting and posting real-time data from all 14 anemometers it installed on its transmission equipment last summer. Data from several sites is posted now at: <http://www.transmission.bpa.gov/Business/Operations/Wind/MetData.aspx>



Web pages improved: It should be easier to find WIT information on BPA's Web site. We have populated the individual [WIT project pages](#) and co-located links to many aspects of BPA's work on wind integration under [transmission wind activities](#).

Installed capacity tops 2,500 MW; New 5-minute ramp record set: Installed [wind project capacity](#) in BPA's balancing authority increased to 2,504 megawatts on Nov. 30 with the addition of the Windy Flats Dooley project phase 2. On Nov. 22, actual wind generation increased by 421 megawatts in 5 minutes in BPA's balancing authority, setting a new record. Generation ramp history is posted at:

http://www.transmission.bpa.gov/Business/Operations/Wind/WindRamps_1min_Summary.xls

If you have questions about any of BPA's wind integration team initiatives, contact Eric King at 503-230-5236.

Thank you for your continuing interest in our efforts to support Northwest renewable resource development.