



January 29, 2007

Mr. Cris Miller  
Senior Environmental Projects Administrator  
Basin Electric Power Cooperative  
1717 E. Interstate Ave  
Bismarck, ND 58503-0564

Re: Revisions to BEPC BART Determination Study report,  
LOS 1 with basic SOFA and SNCR NO<sub>x</sub> Control impacts, and  
LOS Unit 1 and Unit 2 SNCR Cost Effectiveness Corrections

Dear Cris:

Burns & McDonnell has completed a supplemental report to the August 2006 final BART Determination Study report for Basin's Unit 1 and Unit 2 at Leland Olds Station.

This supplemental report includes expected impacts of LOS Unit 1 with basic SOFA and SNCR for NO<sub>x</sub> control. This document is being provided in response to the North Dakota Department of Health's request issued in a December 1, 2006 letter to Basin Electric Power Cooperative regarding the NDDH's comments from their review of the final draft report of the BEPC LOS BART DETERMINATION STUDY for LELAND OLDS STATION UNIT 1 and 2 (August 2006).

This is intended to be in addition to the following sections:

- 2.4.2 Energy Impacts of NO<sub>x</sub> Control Alternatives – LOS Unit 1;
- 2.4.3 Non Air Quality and Other Environmental Impacts of NO<sub>x</sub> Control Alternatives – LOS Unit 1;
- 2.4.4 Visibility Impairment Impacts of Leland Olds Station NO<sub>x</sub> Controls – Unit 1;
- 2.4.5 Summary of Impacts of LOS NO<sub>x</sub> Controls – Unit 1;

Included in this document are replacements to the following sections of the August 2006 BEPC BART Determination Study report:

- 2.4.1.2 Operating and Maintenance Cost Estimates for NO<sub>x</sub> Controls – LOS Unit 1;
- 2.4.1.3 Cost Effectiveness for NO<sub>x</sub> Controls – LOS Unit 1;



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Section 2.4.1.2 O&M Costs, and Section 2.4.1.3 Cost Effectiveness, were corrected for the costs of additional coal consumption for those LOS Unit 1 alternatives that involve a chemical reagent injected for NO<sub>x</sub> control alternatives to compensate for the heat of vaporization of the reagent dilution water.

Similarly, included in this document are replacements to the following sections of the August 2006 BEPC BART Determination Study report:

- 2.5.1.2 Operating and Maintenance Cost Estimates for NO<sub>x</sub> Controls – LOS Unit 2;
- 2.5.1.3 Cost Effectiveness for NO<sub>x</sub> Controls – LOS Unit 2;

Section 2.5.1.2 O&M costs, and Section 2.5.1.3 Cost Effectiveness, were corrected for the costs of additional coal consumption for those LOS Unit 2 alternatives that involve a chemical reagent injected for NO<sub>x</sub> control alternatives to compensate for the heat of vaporization of the reagent dilution water.

An electronic copy of the document has been sent to you via email.

As always, please contact Bob Blakley at (816) 822-3842 [rblakley@burnsmcd.com](mailto:rblakley@burnsmcd.com), or Carl Weilert at (816) 822-3103 or [cweilert@burnsmcd.com](mailto:cweilert@burnsmcd.com) if questions arise.

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