

STEPTOE & JOHNSON<sup>LLP</sup>  
ATTORNEYS AT LAW

Samuel M. Sipe Jr.  
202.429.6486  
ssipe@steptoe.com

1330 Connecticut Avenue, NW  
Washington, DC 20036-1795  
Tel 202.429.3000  
Fax 202.429.3902  
steptoe.com

August 5, 2010

**VIA ELECTRONIC FILING**

Ms. Cynthia Brown  
Chief, Section of Administration  
Office of Proceedings  
Surface Transportation Board  
395 E Street, SW  
Washington, DC 20423-0001

Re: *Petition of Arkansas Electric Cooperative Corporation for a Declaratory Order,*  
STB Finance Docket 35305

Dear Ms. Brown:

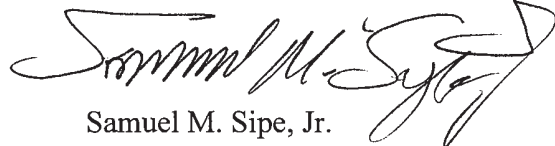
This letter responds to requests for BNSF Railway Company to provide additional information on two matters raised by Board members at the July 29, 2010 hearing in the above-referenced case.

First, in response to a request from Vice Chairman Mulvey, attached is a list of academic and industry articles and reports related to coal dust that we have been able to locate. We have identified whether the materials on our list were already included in the record in this proceeding, are readily available on the internet, or are being provided to the Board as attachments to this letter. We have seen references to a few other articles and reports, but have not included them on our list if we have been unable to locate a copy.

Second, Commissioner Nottingham asked BNSF to advise the Board whether BNSF loaded the railcars above the sill during its removal of coal dust that had accumulated near certain waterways in 2008. We confirmed that BNSF did not load the railcars above the sill. We note that one of the articles on the attached list addresses the question raised by Commissioner Nottingham as to whether loading coal below the sill would reduce coal dust emissions. This article indicates that this loading technique reduces the load capacity of each railcar by more than ten percent without a statistically significant reduction in coal dust emissions. *See* Edward M. Calvin, G. D. Emmitt & Jerome E. Williams, *A Rail Emission Study: Fugitive Coal Dust Assessment and Mitigation*, *Proceedings for the Seventh Annual Environment Virginia '96 Symposium*, 44, 48, Lexington, Virginia (April 11-12, 1996).

Please contact the undersigned if you have any questions regarding this letter.

Sincerely,

A handwritten signature in black ink, appearing to read "Samuel M. Sipe, Jr.", written in a cursive style.

Samuel M. Sipe, Jr.  
Counsel for BNSF Railway Company

cc: Chairman Daniel R. Elliott III  
Vice Chairman Francis P. Mulvey  
Commissioner Charles D. Nottingham  
Parties of Record

---

## Coal Dust Articles and Reports

---

Aurecon Hatch, Coal Leakage from Kwik-Drop Doors: Coal Loss Management Project Queensland Rail Limited Reference H327578-N00-EE00.08 Revision 1 (July 21, 2009) (available at <http://www.qrnetwork.com.au/media-and-community-centre/environmental-policies/Coal-loss-management.aspx>).

Kenneth Axtell & Chatten Cowherd, Environmental Protection Agency, Project Summary: Improved Emissions Factors for Fugitive Dust from Western Surface Coal Mining Surfaces, EPA-600/S7-84-048 (July 1984) (attached).

Christopher F. Blazek of Benetech Inc., The Role of Chemicals in Controlling Coal Dust Emissions, presented at the American Coal Council, *PRB Coal Use: Risk Management Strategies and Tactics Course*, Dearborn, Michigan (June 2003) (attached).

Edward M. Calvin, G. D. Emmitt, & Jerome E. Williams, A Rail Emission Study: Fugitive Coal Dust Assessment and Mitigation, *Proceedings for the Seventh Annual Environment Virginia '96 Symposium*, 44-53, Lexington, Virginia (April 11-12, 1996) (attached).

Connell Hatch, Barney Point Coal Terminal Dust Benchmarking Study: Gladstone Port Coal Dust Study, Reference HR02-03 Revision 0, prepared for Gladstone Ports Corporation (July 14, 2008) (available at [http://www.gpcl.com.au/gpc\\_benchmarking\\_studies.html](http://www.gpcl.com.au/gpc_benchmarking_studies.html)).

Connell Hatch, Final Report: Environmental Evaluation of Fugitive Coal Dust Emissions from Coal Trains, Goonyella, Blackwater, and Moura Coal Rail Systems, Reference H327578-NOO-EE-00.00 Revision 1, prepared for Queensland Rail Limited (Mar. 31, 2008) (available at <http://www.qrnetwork.com.au/media-and-community-centre/environmental-policies/Coal-loss-management.aspx>).

Connell Hatch, RG Tanna Dust Benchmarking Study: Gladstone Port Coal Losses and Air Quality, Reference HR02-03 Revision 4, prepared for Central Queensland Ports Authority (March 12, 2008) (available at [http://www.gpcl.com.au/gpc\\_benchmarking\\_studies.html](http://www.gpcl.com.au/gpc_benchmarking_studies.html)).

Connell Hatch, Interim Report, Environmental Evaluation of Fugitive Coal Dust Emissions from Coal Trains, Goonyella, Blackwater, and Moura Coal Rail Systems, Reference H-327578 Revision 0, prepared for Queensland Rail Limited (Jan. 31, 2008) (included in the workpapers of the Reply Verified Statement of Dr. Mark Viz).

Connell Hatch, Draft: Coal Loss Literature Review, Reference H327578-N00-CF00 Revision 0, prepared for Queensland Rail Limited (Jan. 11, 2008) (included in the workpapers of the Reply Verified Statement of Dr. Mark Viz).

Douglas L. Cope & Kamal K. Bhattacharyya, A Study of Fugitive Coal Dust Emissions in Canada, prepared for The Canadian Council Ministers of the Environment (Nov. 2001) (attached).

G. D. Emmitt, Fugitive Coal Dust: An Old Problem Demanding New Solutions, *Port Tech. Int'l.*, 9:125-128 (1999) (attached).

George D. Emmitt, Linnea S. Wood, Edward M. Calvin, & Steven Greco, Procontrol: Automated Fugitive Dust Control System, *Proceedings for the Seventh Annual Environment Virginia '96 Symposium*, 36-43, Lexington, Virginia (April 11-12, 1996) (attached).

George D. Emmitt, Minimizing Groundwater Consumption for Required Fugitive Dust Control Programs, *Proceedings for the Seventh Annual Environment Virginia '96 Symposium*, 244-251, Lexington, Virginia (April 11-12, 1996) (attached).

A.D. Ferreira, D.X. Viegas & A.C.M. Sousa, Full-Scale Measurements for Evaluation of Coal Dust Release from Train Wagons with Two Different Shelter Covers, *91 Journal of Wind Engineering & Industrial Aerodynamics*, 1271-1283 (2003) (included in the workpapers of the Reply Verified Statement of Dr. Mark Viz).

A.D. Ferreira & P.A. Paz, Wind Tunnel Study of Coal Dust Release from Train Wagons, *92 Journal of Wind Engineering & Industrial Aerodynamics*, 565-577 (2004) (included in the workpapers of the Reply Verified Statement of Dr. Mark Viz).

Claudio Guarnaschelli, Environmental Protection Service: Fisheries and Environment Canada, In-Transit Control of Coal Dust From Unit Trains, Report No. EPS 4-PR-77-1 (May 1977) (attached).

H. Huang, E. Tutumluer, & W. Dombrow, Laboratory Characterization of Fouled Railroad Ballast Behavior, *Transportation Research Record No. 2117: Journal of the Transportation Research Board, National Resource Council*, Washington, D.C., 93-101 (2009) (attached to the Opening Verified Statement of Dr. Erol Tutumluer, Exhibit 4).

Katestone Environmental & Introspec Consulting, Field Trial Program for the Observation of Potential Slip Failure or Other Movement in the Surface of Coal in Wagons During Transport From Mine to Port, prepared for Queensland Rail Limited (Feb. 3, 2009) (available at <http://www.qrnetwork.com.au/media-and-community-centre/environmental-policies/coal-loss-management.aspx>).

Ross Leeder, Wes Hutny & John Price, Train Transportation Coal Losses: A Wind Tunnel Study, *AISTech 2007: Proceedings of the Iron & Steel Technology Conference Volume I*, 129-138 (May 7-10, 2007) (included in the workpapers of the Reply Verified Statement of Dr. Mark Viz).

George Noble, Sander E. Sundberg, and Michael Bayard, Coal Particulate Emissions From Rail Cars, *Proceedings from the Air Pollution Control Association Specialty Conference on Fugitive Dust Issues in the Coal Use Cycle*, Rep. No. CONF-8304206, 82-92 (April 1983) (included in the workpapers of the Reply Verified Statement of Dr. Mark Viz).

QRNetwork, *Coal Dust Management Plan: Coal Loss Management Project*, Version Draft V10D (Feb. 22, 2010) (available at <http://www.qrnetwork.com.au/media-and-community-centre/environmental-policies/coal-loss-management.aspx>).

Report of the Joint Subcommittee Studying Ways to Reduce Emissions from Coal-Carrying Railroad Cars to the Governor and the General Assembly of Virginia, Senate Document No. 23 (Jan. 1997) (available at <http://leg2.state.va.us/DLS/H&SDocs.NSF/Published+by+Year?OpenForm&StartKey=1997&ExpandView>).

B. Roebuck, N. P. Vaughan, & K. Y. K. Chung, Performance Testing of the OSIRIS Dust Monitoring System, 34 (3) *Ann. Occup. Hyg.* 263-279 (1990) (included in the workpapers of the Rebuttal Verified Statement of Dr. Mark Viz).

Similar: Queensland Government, A Business Unit of the Department of Mines and Energy, Gladstone Airborne Coal Dust Monitoring: Complete Report for QRNational, Report No. oe101776f3 (Jan. 18, 2008) (included in the workpapers of the Reply Verified Statement of Dr. Mark Viz).

Simpson Weather Associates, Norfolk Southern Rail Emission Study, prepared for Norfolk Southern Corporation (Dec. 30, 1993) (included in the workpapers of the Reply Verified Statement of Dr. Mark Viz).

E. Tutumluer, W. Dombrow, & H. Huang, Laboratory Characterization of Coal Dust Fouled Ballast Behavior, *Proc. AREMA 2008 Annual Conference*, Salt Lake City, Utah (September 21-24, 2008) (attached to the Opening Verified Statement of Dr. Erol Tutumluer, Exhibit 3).

Edmund P. Wituschek, & Douglas L. Cope, Environment Canada, Coal Dust Control: Recommended Practices for Loading, Unloading, and Transporting Coal by Rail, Regional Report No. 86-17 (April 1986) (attached to the Rebuttal Verified Statement of William VanHook, Exhibit 2).