

227352

LAW OFFICE

MCLEOD, WATKINSON & MILLER

MICHAEL R. MCLEOD  
WAYNE R. WATKINSON  
MARC E. MILLER  
RICHARD T. ROSSIER  
DEVARIESTE CURRY  
RICHARD PASCO  
ALEX MENENDEZ  
AMY B. JONES  
CHRISTOPHER J. SALISBURY  
LIS KIDDER  
NATHANIEL GORDON-CLARK\*  
(\*admitted in Maryland only)

ONE MASSACHUSETTS AVENUE, N.W.  
SUITE 800  
WASHINGTON, DC 20001-1401  
(202) 842-2345  
TELECOPY (202) 408-7763

ROBERT RANDALL GREEN  
LAURA L. PHELPS  
DAVID R. GRAVES  
GOVERNMENT RELATIONS

ERIC VON SALZEN  
OF COUNSEL

June 24, 2010

Ms. Cynthia T. Brown  
Chief, Section of Administration  
Office of Proceedings  
Surface Transportation Board  
395 E Street, SW  
Washington, DC 20423-0012

ENTERED  
Office of Proceedings

JUN 25 2010

Part of  
Public Record



RE: STB Finance Docket 35305  
Petition of Arkansas Electric Cooperative Corporation For A Declaratory  
Order

Dear Ms. Brown:

As requested, I enclose electronic copies of the three workpapers referenced in the Rebuttal Verified Statement of Michael A. Nelson.

In accordance with direction, this letter, together with Workpapers 2 and 3, are being served on all parties of record. Workpaper 1, which is classified Highly Confidential, is being served on outside counsel as required by the Protective Order in this docket.

Very truly yours,

A handwritten signature in black ink, appearing to be "Eric Von Salzen".

Eric Von Salzen  
Counsel for Arkansas Electric Cooperative Corporation

cc: All Parties of Record (w/ encl. as stated)

**Rebuttal VS Nelson Workpaper 2 - Calculation of Approximate Train Speed**

Video: "Train 1\_0002.wmv"

Sbd. Loaded Coal Train approaching BNSF Orin Sub. MP 75

**PUBLIC VERSION**

<u>Description</u>	<u>Milepost Location</u>	<u>Distance, miles</u>	<u>Timestamp Min:Sec</u>	<u>Incr. Time Min:Sec</u>	<u>Calculated Speed, mph</u>
Vertical Curve (-0.43% / -0.76%)	74.15		00:04		
		0.52		00:38	49.3
Road Crossing	74.67		00:42		
		0.33		00:23	51.7
Milepost 75	75.00		01:05		
<b>Average Calculated Speed, mph</b>					<b>50.5</b>

**Rebuttal VS Nelson - Workpaper 3  
Estimated Air Drag by Speed  
PUBLIC VERSION**

Speed, mph	Air Drag per Car, lbs.	
	Total	On Exposed Coal (approx.)
10	4.4	1
15	9.9	2
20	17.6	4
25	27.6	7
30	39.7	10
35	54.0	14
40	70.6	18
45	89.3	22
50	110.3	28

Per AREMA Manual for Railway Engineering (2008) pages 16-2-4 through 16-2-6 (CN version of train resistance)

Streamlining coefficient: **4.2**

Cross-sec. area, sq. ft.: **105**

Approx. portion of air drag  
on exposed coal: **25%**

formula; portion due to air drag, loaded coal gondolas):