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May 28, 2004



Via HAND DELIVERY

The Honorable Vernon A. Williams
Secretary
Surface Transportation Board
1925 K Street, NW
Washington, DC 20423

ENTERED
Office of Proceedings
JUN - 1 2004
Part of
Public Record

PUBLIC VERSION

211133

Re: **STB Docket No. 41185, *Arizona Public Service Company and PacifiCorp v. The Burlington Northern and Santa Fe Railway Company***

Dear Secretary Williams:

Enclosed for filing in the above-captioned matter are the original and ten copies of the Public version of the Errata to the Reply Evidence on Reopening of The Burlington Northern and Santa Fe Railway Company. The Public version of this Errata consists of a single volume containing the Errata and resubmitted Exhibits. Also enclosed are three copies of a CD containing a PDF version of the Public Narrative. BNSF is filing the Highly Confidential version of this Errata today under a separate cover letter.

Please date stamp the extra copy of this cover letter and return it to the messenger who delivered this filing.

Sincerely,

Samuel M. Sipe, Jr.

Enclosures

cc: Counsel for Complainant

PUBLIC VERSION
**BEFORE THE SURFACE
TRANSPORTATION BOARD**



ARIZONA PUBLIC SERVICE COMPANY
And PACIFICORP,
Complainant,

v.

THE BURLINGTON NORTHERN AND
SANTA FE RAILWAY COMPANY*,
Defendants.

Docket No. 41185

ENTERED
Office of Proceedings

JUN - 1 2004

Part of
Public Record

211133

**ERRATA TO THE APRIL 9, 2004 REPLY EVIDENCE ON REOPENING OF THE
BURLINGTON NORTHERN AND SANTA FE RAILWAY COMPANY**

The Burlington Northern and Santa Fe Railway Company ("BNSF") submits this Errata filing to correct a mileage calculation error in its Reply Evidence on Reopening filed in this proceeding on April 9, 2004. The specific error BNSF identified is described below, as are the changes BNSF has made to correct this error. Included with this Errata filing are the following:

- Revised BNSF Reply hardcopy exhibits that accompanied the Verified Statements of Mr. Michael R. Baranowski and Ms. Julie A. Murphy in the April 9, 2004 Reply, that have been updated to reflect the minor mileage change, described below (Attachments A through D), and;
- A CD containing revised BNSF Reply electronic workpapers reflecting the changes described below.

* As successor in interest to The Atchison, Topeka and Santa Fe Railway Company

In BNSF's Reply Evidence on Reopening, BNSF witness Julie Murphy presented evidence pertaining to APS/PacifiCorp's re-routing of coal originating in the PRB and traveling along the residual BNSF lines to Defiance, and demonstrated that BNSF typically routes this traffic over a longer route, via La Junta – Amarillo – Clovis, Texas as a result of steep grades.¹ However, as the Complainants pointed out in their Rebuttal filing, BNSF incorrectly calculated the additional miles that the real-world BNSF traffic travels compared to the miles traveled on the APS/PacifiCorp re-route. The difference between the two routes from the PRB to APS Cholla is 290.8 miles rather than the 312.4 miles that Ms. Murphy stated in her Verified Statement.² Correcting for the mileage miscalculation results in a minor increase in AGRR revenues in the years 2007 to 2012 as compared to those sponsored in BNSF's reply evidence.

Included as attachments to this Errata filing are the following BNSF Errata Exhibits that reflect the correction described above or that have changed as a result of the increase in revenue resulting from the correction.

- Exhibit JAM-4 Errata (Attachment A)
- Errata Exhibit MRB-2 (Attachment B)
- Errata Exhibit MRB-3 (Attachment C)
- Errata Exhibit_(MRB-4) (Attachment D)

The following electronic workpapers are being submitted with this filing and reflect the correction described above:

- "AGR_Traffic and Revenues_A1_BNSF Reply Errata.xls"
- "DCF BNSF REPLY 2003 Errata.123"

¹ Verified Statement of Julie A. Murphy accompanying BNSF April 9, 2004 Reply Evidence on Reopening, at 13-15.

² See APS/PacifiCorp Rebuttal electronic workpaper "APS mileage Corrected.pdf."

- “DCF BNSF Reply 2007 Errata.123”
- “Exhibit MRB-2 Errata.xls”
- “Exhibit MRB-3 Errata.xls”
- “Exhibit MRB-4 Errata.xls”
- “Rev-180.wk4”
- “DCFDS BNSF REPLY 2003.123”
- “DCFDS BNSF REPLY 2007.123”

Listed in the table below are the changes that should be made to the narrative portions of the BNSF Reply on Reopening to reflect this mileage adjustment.

PAGE	LOCATION	SUBSTITUTION
Argument		
Page 4	Footnote 7	Substitute “Errata Exhibit MRB-2” for “Exhibit MRB-2”
Page 13	Footnote 33	Substitute “Errata Exhibit MRB-2” for “Exhibit MRB-2”
Page 14	Footnote 34	Substitute “See BNSF Errata electronic workpaper “AGR_Traffic and Revenues_A1_BNSF Reply Errata.xls”” for “See BNSF Reply electronic workpaper “AGR_Traffic and Revenues_A1_BNSF Reply.xls””
Page 15	Footnote 40	Substitute “See BNSF Errata electronic workpaper “AGR_Traffic and Revenues_A1_BNSF Reply Errata.xls”” for “See BNSF Reply electronic workpaper “AGR_Traffic and Revenues_A1_BNSF Reply.xls””
Page 20	Footnote 56	Substitute “See BNSF Errata electronic workpaper “AGR_Traffic and Revenues_A1_BNSF Reply Errata.xls.”” for “See BNSF Reply electronic workpaper “AGR_Traffic and Revenues_A1_BNSF Reply.xls.””
Page 23	Line 18 (last line)	Substitute “290.8 miles” for “312 miles”

Page 23	Footnote 67	Substitute “See APS Opening electronic workpaper “AGR_Traffic and Revenues_A1.xls.”” for “See APS Opening electronic workpaper “AGR_Traffic and Revenues_A1_BNSF Reply.xls.””
Page 28	Table 5, Line 15	Substitute “\$22,088,136” for “\$22,018,250”
Page 28	Table 5, Line 16	Substitute “\$21,902,931” for “\$21,821,865”
Page 28	Table 5, Line 17	Substitute “\$17,704,670” for “\$17,550,647”
Page 28	Table 5, Line 18	Substitute “\$18,068,599” for “\$17,911,444”
Page 28	Table 5, Line 19	Substitute “\$18,451,845” for “\$18,291,536”
Page 28	Table 5, Line 20	Substitute “\$18,840,850” for “\$18,677,353”
Page 28	Table 5, Line 21	Substitute “\$19,240,399” for “\$19,073,575”
Page 28	Footnote 89	Substitute “See BNSF Errata electronic workpaper “AGR_Traffic and Revenues_A1_BNSF Reply Errata.xls”” for “See BNSF Reply electronic workpaper “AGR_Traffic and Revenues_A1_BNSF Reply.xls”” Substitute “Exhibit JAM-4 Errata” for “Exhibit JAM-4”
Page 33	Footnote 110	Substitute “Errata Exhibit MRB-2” for “Exhibit MRB-2”
Page 34	Footnotes 112 and 113	Substitute “Errata Exhibit MRB-2” for “Exhibit MRB-2”
Page 34	Line 2	Substitute “\$27.3 million” for “\$26.9 million”
Page 35	Table 6, Line 2	Substitute “\$7.15” for “\$7.20”
Page 35	Table 6, Line 3	Substitute “\$7.23” for “\$7.27”
Page 35	Table 6, Line 4	Substitute “\$7.57” for “\$7.61”
Page 35	Table 6, Line 5	Substitute “\$7.18” for “\$7.22”
Page 35	Table 6, Line 6	Substitute “\$7.33” for “\$7.36”
Page 35	Table 6, Line 7	Substitute “\$7.16” for “\$7.20”
Page 35	Footnote 116	Substitute “Errata Exhibit MRB-2” for “Exhibit MRB-2”
Baranowski VS		
Page 7	Table MRB-2, Line 2	Substitute “\$7.15” for “\$7.20”
Page 7	Table MRB-2, Line 3	Substitute “\$7.23” for “\$7.27”
Page 7	Table MRB-2, Line 4	Substitute “\$7.57” for “\$7.61”
Page 7	Table MRB-2, Line 5	Substitute “\$7.18” for “\$7.22”

Page 7	Table MRB-2, Line 6	Substitute "\$7.33" for "\$7.36"
Page 7	Table MRB-2, Line 7	Substitute "\$7.16" for "\$7.20"
Page 7	Footnote 4	Substitute "See BNSF Errata electronic workpaper "DCF BNSF Reply 2007 Errata.123"" for "See BNSF Reply electronic workpaper "DCF BNSF Reply 2007.123"
Page 22	Footnote 21	Substitute "See BNSF Errata electronic workpaper "DCF BNSF Reply 2007 Errata.123"" for "See BNSF Reply electronic workpaper "DCF BNSF Reply 2007.123"
Page 23	Footnote 23	Substitute "See BNSF Errata electronic workpaper "DCF BNSF Reply 2007 Errata.123"" for "See BNSF Reply electronic workpaper "DCFDS BNSF Reply 2007.123"
Page 25	Table MRB-7, Line 2	Substitute "\$7.15" for "\$7.20"
Page 25	Table MRB-7, Line 3	Substitute "\$7.23" for "\$7.27"
Page 25	Table MRB-7, Line 4	Substitute "\$7.57" for "\$7.61"
Page 25	Table MRB-7, Line 5	Substitute "\$7.18" for "\$7.22"
Page 25	Table MRB-7, Line 6	Substitute "\$7.33" for "\$7.36"
Page 25	Table MRB-7, Line 7	Substitute "\$7.16" for "\$7.20"
Page 25	Footnote 26	Substitute "See BNSF Errata electronic workpaper "DCF BNSF Reply 2007 Errata.123"" for "See BNSF Reply electronic workpaper "DCF BNSF Reply 2007.123"
Page 26	Table MRB-8, Line 2	Substitute "\$24.9" for "\$25.0" and "\$0.8" for "\$0.9"
Page 26	Table MRB-8, Line 3	Substitute "\$1.3" for "\$1.4"
Page 26	Table MRB-8, Line 7	Substitute "\$27.1" for "\$27.2"
Page 26	Table MRB-8, Line 9	Substitute "\$30.3" for "\$30.4"
Page 26	Table MRB-8, Line 11	Substitute "\$26.3" for "\$26.4"
Page 26	Table MRB-8, Line 12	Substitute "\$39.1" for "\$39.2"
Page 26	Table MRB-8, Line 13	Substitute "\$39.5" for "\$39.7" and "\$3.3" for "\$3.4"
Page 26	Table MRB-8, Line 14	Substitute "\$38.0" for "\$38.1"
Page 26	Table MRB-8, Line 16	Substitute "\$30.5" for "\$30.4"
Page 26	Table MRB-8, Line 17	Substitute "\$17.7" for "\$17.4"
Page 26	Table MRB-8, Line 18	Substitute "\$18.1" for "\$17.7" and "(\$3.8)" for "(\$3.9)"
Page 26	Table MRB-8, Line 19	Substitute "\$18.5" for "\$18.1"

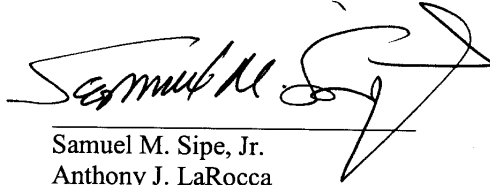
Page 26	Table MRB-8, Line 20	Substitute "\$18.8" for "\$18.4" and "\$3.0" for "\$3.1"
Page 26	Table MRB-8, Line 21	Substitute "\$19.2" for "\$18.7"
Page 26	Footnote 27	Substitute "See BNSF Errata electronic workpaper "DCF BNSF Reply 2007 Errata.123"" for "See BNSF Reply electronic workpaper "DCF BNSF Reply 2007.123"
Page 27	Line 8	Substitute "\$4.7 million" for "\$4.8 million"
Murphy VS		
Page 4	Footnote 1	Substitute "See BNSF Errata electronic workpaper "AGR_Traffic and Revenues_A1_BNSF Reply Errata.xls"" for "See BNSF Reply electronic workpaper "AGR_Traffic and Revenues_A1_BNSF Reply.xls""
Page 7	Footnote 7	Substitute "See BNSF Errata electronic workpaper "AGR_Traffic and Revenues_A1_BNSF Reply Errata.xls"" for "See BNSF Reply electronic workpaper "AGR_Traffic and Revenues_A1_BNSF Reply.xls.""
Page 9	Footnote 12	Substitute "See BNSF Errata electronic workpaper "AGR_Traffic and Revenues_A1_BNSF Reply Errata.xls"" for "See BNSF Reply electronic workpaper "AGR_Traffic and Revenues_A1_BNSF Reply.xls""
Page 10	Footnote 15	Substitute "See BNSF Errata electronic workpaper "AGR_Traffic and Revenues_A1_BNSF Reply Errata.xls"" for "See BNSF Reply electronic workpaper "AGR_Traffic and Revenues_A1_BNSF Reply.xls""
Page 11	Footnote 17, Footnote 20	Substitute "See BNSF Errata electronic workpaper "AGR_Traffic and Revenues_A1_BNSF Reply Errata.xls"" for "See BNSF Reply electronic workpaper "AGR_Traffic and Revenues_A1_BNSF Reply.xls""
Page 12	Footnote 21	Substitute "See BNSF Errata electronic workpaper "AGR_Traffic and Revenues_A1_BNSF Reply Errata.xls"" for "See BNSF Reply electronic workpaper "AGR_Traffic and Revenues_A1_BNSF Reply.xls""

Page 14	Line 5	Substitute "290.8" for "312"
Page 14	Footnote 26	Substitute "290.8" for "312.4" and substitute " <i>See</i> APS Rebuttal electronic workpaper "APS mileage Corrected.pdf."" for " <i>See</i> BNSF Reply electronic workpaper "APS mileage .pdf.""
Page 15	Footnote 28	Substitute " <i>See</i> BNSF Errata electronic workpaper "AGR_Traffic and Revenues_A1_BNSF Reply Errata.xls"" for " <i>See</i> BNSF Reply electronic workpaper "AGR_Traffic and Revenues_A1_BNSF Reply.xls""
Page 18	Footnote 33	Substitute " <i>See</i> BNSF Errata electronic workpaper "AGR_Traffic and Revenues_A1_BNSF Reply Errata.xls"" for " <i>See</i> BNSF Reply electronic workpaper "AGR_Traffic and Revenues_A1_BNSF Reply.xls""
Page 19	Table JAM-7, Line 15	Substitute "\$22,088,136" for "\$22,018,250"
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Page 19	Table JAM-7, Line 17	Substitute "\$17,704,670" for "\$17,550,647"
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Page 19	Table JAM-7, Line 21	Substitute "\$19,240,399" for "\$19,073,575"
Page 19	Line 1	Substitute "Exhibit JAM-4 Errata" for "Exhibit JAM-4"
Page 19	Footnote 35	Substitute " <i>See</i> BNSF Errata electronic workpaper "AGR_Traffic and Revenues_A1_BNSF Reply Errata.xls"" for " <i>See</i> BNSF Reply electronic workpaper "AGR_Traffic and Revenues_A1_BNSF Reply.xls""

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Respectfully submitted,

A handwritten signature in black ink, appearing to read "Samuel M. Sipe, Jr.", written over a horizontal line.

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May 28, 2004

CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing was served by messenger on this 28th day of May, 2004 upon the following counsel for Arizona Public Service Company and PacifiCorp:

C. Michael Loftus
Christopher A. Mills
Frank J. Pergolizzi
Peter A. Pföhl
Slover and Loftus
1224 Seventeenth St. N.W.
Washington, D.C. 20036



Linda S. Stein

A

**Attachment A (Exhibit JAM-4 Errata)
Has Been Redacted**

B

ADJUSTMENT TO ELIMINATE SHORTFALL RESULTING FROM APS PAYMENTS AT STB PRESCRIBED LEVELS

Assuming Resourced Coal Beginning in 2007

Year	APS Rate Required To Cover SAC Costs	STB Prescribed Rates	Annual Stand-Alone Revenues With Board Prescription 1994 - 2003 (current \$)	Actual & Forecasted Annual Cost (current \$)	Over Payments Or (Shortfalls) (current \$)	Increase Required for 2003					Actual & Forecasted Annual Cost (current \$)	Over Payments Or (Shortfalls) (current \$)	APS Rate Prescription 2003-2008	
						Incremental APS Increase Per Ton	APS McKinley Tons Post - May 22	Additional APS McKinley Revenues	Revised Revenue Stream					
1994	\$5.09	\$3.67	\$24,919,785	\$24,023,875	\$846,454					\$24,919,785	\$24,023,875	\$846,454		
1995	\$4.99	\$3.78	20,189,199	18,605,223	1,337,653					20,189,199	18,605,223	1,337,653		
1996	\$4.78	\$3.65	17,567,657	16,612,242	720,937					17,567,657	16,612,242	720,937		
1997	\$4.77	\$3.68	22,517,003	21,473,906	702,369					22,517,003	21,473,906	702,369		
1998	\$4.55	\$3.76	24,886,462	23,511,821	828,141					24,886,462	23,511,821	828,141		
1999	\$4.51	\$4.16	27,138,162	26,253,603	478,207					27,138,162	26,253,603	478,207		
2000	\$4.30	\$3.93	19,403,694	17,926,015	714,997					19,403,694	17,926,015	714,997		
2001	\$4.37	\$4.02	30,335,275	28,419,636	829,884					30,335,275	28,419,636	829,884		
2002	\$4.31	\$4.11	26,512,934	25,050,126	569,835					26,512,934	25,050,126	569,835		
2003	\$4.30	\$4.21	21,719,085	19,795,616	672,897					26,306,988	19,795,616	2,277,905		\$7.15
2004	\$4.34		28,846,985	26,690,188	676,279	\$2.86	1,606,377	\$4,587,902		39,090,521	26,690,188	3,888,212		\$7.23
2005	\$4.55		28,069,856	27,728,928	95,815	\$2.89	3,550,000	10,243,537		39,546,404	27,728,928	3,321,199		\$7.57
2006	\$4.31		27,084,622	26,033,920	264,669	\$3.02	3,800,000	11,476,548		37,973,948	26,033,920	3,007,662		\$7.18
2007	\$4.40		22,088,133	36,760,717	(3,312,713)	\$2.87	3,800,000	10,889,326		33,205,220	36,760,717	(802,745)		\$7.33
2008	\$4.30		21,902,929	38,385,336	(3,335,426)	\$2.93	3,000,000	11,117,087		30,481,496	38,385,336	(1,599,443)		\$7.16
2009	\$4.17		17,704,670	40,665,131	(4,164,519)	\$2.86	3,000,000	8,578,567		17,704,670	40,665,131	(4,164,519)		
2010	\$4.11		18,068,599	41,518,016	(3,812,148)					18,068,599	41,518,016	(3,812,148)		
2011	\$4.06		18,451,845	41,443,866	(3,350,182)					18,451,845	41,443,866	(3,350,182)		
2012	\$4.13		18,840,850	42,002,851	(3,024,969)					18,840,850	42,002,851	(3,024,969)		
2013	\$4.21		19,240,399	42,899,332	(2,769,450)					19,240,399	42,899,332	(2,769,450)		
													(\$0)	
													(\$15,031,270)	

**Attachment B (Errata Exhibit MRB-2 - Pages 2-3)
Has Been Redacted**

C

ADJUSTMENT TO ELIMINATE SHORTFALL RESULTING FROM APS PAYMENTS AT STB PRESCRIBED LEVELS

Assuming Resourced Coal Beginning in 2003

Year	APS Rate Required To Cover SAC Costs	STB Prescribed Rates	Annual Stand-Alone Revenues With Board Prescription 1994 - 2003 (current \$)	Actual & Forecasted Annual Cost (current \$)	Over Payments Or (Shortfalls) (current \$)	Incremental APS Increase Per Ton	APS McKinley Tons Post - May 22 Revenues	Revised Revenue Stream	Actual & Forecasted Annual Cost (current \$)	Over Payments Or (Shortfalls) (current \$)	APS Rate Prescription 2003-2008
1994	\$5.03	\$3.67	\$24,789,280	\$23,293,381	\$1,413,324			\$24,789,280	\$23,293,381	\$1,413,324	
1995	\$4.94	\$3.78	20,072,184	18,042,744	1,713,842			20,072,184	18,042,744	1,713,842	
1996	\$4.73	\$3.65	17,473,078	16,108,118	1,029,973			17,473,078	16,108,118	1,029,973	
1997	\$4.71	\$3.68	22,383,694	20,823,895	1,050,289			22,383,694	20,823,895	1,050,289	
1998	\$4.50	\$3.76	24,719,187	22,797,456	1,157,730			24,719,187	22,797,456	1,157,730	
1999	\$4.45	\$4.16	26,974,649	25,517,342	787,844			26,974,649	25,517,342	787,844	
2000	\$4.25	\$3.93	19,286,732	17,383,692	920,814			19,286,732	17,383,692	920,814	
2001	\$4.31	\$4.02	30,116,737	27,558,737	1,108,164			30,116,737	27,558,737	1,108,164	
2002	\$4.25	\$4.11	26,342,999	24,288,340	800,390			26,342,999	24,288,340	800,390	
2003	\$4.48	\$4.21	28,056,571	26,822,757	431,631	\$2.73	1,606,377	32,442,719	26,822,757	1,966,059	\$7.21
2004	\$4.54		34,899,808	33,715,650	371,301	\$2.77	3,550,000	44,722,890	33,715,650	3,451,398	\$7.31
2005	\$4.61		31,810,458	38,314,589	(1,827,929)	\$2.81	3,800,000	42,480,432	38,314,589	1,170,774	\$7.42
2006	\$4.50		31,699,119	35,920,024	(1,063,235)	\$2.74	3,800,000	42,128,282	35,920,024	1,563,844	\$7.25
2007	\$4.40		22,088,133	35,404,389	(3,006,487)	\$2.68	3,800,000	32,281,920	35,404,389	(704,978)	\$7.09
2008	\$4.30		21,902,929	36,969,081	(3,048,829)	\$2.62	3,000,000	29,769,025	36,969,081	(1,457,023)	\$6.93
2009	\$4.17		17,704,670	39,164,739	(3,892,381)			17,704,670	39,164,739	(3,892,381)	
2010	\$4.11		18,068,599	39,986,099	(3,563,106)			18,068,599	39,986,099	(3,563,106)	
2011	\$4.06		18,451,845	39,879,519	(3,122,240)			18,451,845	39,879,519	(3,122,240)	
2012	\$4.13		18,840,850	40,405,144	(2,816,307)			18,840,850	40,405,144	(2,816,307)	
2013	\$4.21		19,240,399	41,267,309	(2,578,409)			19,240,399	41,267,309	(2,578,409)	
					(\$14,133,622)					(\$0)	

Increase Required for 2003 \$2.73

**Attachment C (Errata Exhibit MRB-3 - Pages 2-3)
Has Been Redacted**

D

Calculation of Underpayments Before Interest Based on the SAC Maximum

Rate for McKinley to Cholla Movements

(05/22/2003 to 12/31/2003)

	Shipment		Rate	Amount	SAC	Increase	
	<u>Date 1/</u>	<u>Tons 1/</u>	<u>Per Ton 1/</u>	<u>Paid 1/</u>	<u>Maximum</u>	<u>Per</u>	<u>Underpayments 4/</u>
	(1)	(2)	(3)	(4)	<u>Rate 2/</u>	<u>Ton 3/</u>	(7)
<u>2Q2003</u>							
1 .	05/22/2003	8,789	\$4.21	\$37,002.64	\$7.15	\$2.94	\$25,840.32
2 .	05/24/2003	8,582	4.21	36,131.48	7.15	2.94	25,231.96
3 .	05/26/2003	8,882	4.21	37,393.96	7.15	2.94	26,113.59
4 .	05/27/2003	8,663	4.21	36,470.49	7.15	2.94	25,468.71
5 .	05/27/2003	8,786	4.21	36,989.80	7.15	2.94	25,831.35
6 .	05/28/2003	8,399	4.21	35,360.00	7.15	2.94	24,693.21
7 .	05/29/2003	8,613	4.21	36,262.31	7.15	2.94	25,323.32
8 .	05/30/2003	8,397	4.21	35,351.37	7.15	2.94	24,687.18
9 .	05/31/2003	8,483	4.21	35,714.06	7.15	2.94	24,940.46
10 .	06/02/2003	8,868	4.21	37,333.86	7.15	2.94	26,071.63
11 .	06/03/2003	8,907	4.21	37,500.26	7.15	2.94	26,187.83
12 .	06/03/2003	8,583	4.21	36,134.22	7.15	2.94	25,233.87
13 .	06/05/2003	8,507	4.21	35,814.68	7.15	2.94	25,010.73
14 .	06/06/2003	8,690	4.21	36,586.16	7.15	2.94	25,549.48
15 .	06/07/2003	8,484	4.21	35,718.69	7.15	2.94	24,943.70
16 .	06/09/2003	8,873	4.21	37,354.07	7.15	2.94	26,085.74
17 .	06/10/2003	8,485	4.21	35,723.85	7.15	2.94	24,947.30
18 .	06/11/2003	8,783	4.21	36,974.96	7.15	2.94	25,820.99
19 .	06/12/2003	8,299	4.21	34,936.69	7.15	2.94	24,397.59
20 .	06/14/2003	8,875	4.21	37,363.12	7.15	2.94	26,092.06
21 .	06/16/2003	8,487	4.21	35,731.53	7.15	2.94	24,952.66
22 .	06/16/2003	8,879	4.21	37,380.48	7.15	2.94	26,104.19
23 .	06/17/2003	8,492	4.21	35,751.64	7.15	2.94	24,966.70
24 .	06/18/2003	8,200	4.21	34,522.84	7.15	2.94	24,108.59
25 .	06/19/2003	8,888	4.21	37,417.64	7.15	2.94	26,130.13
26 .	06/20/2003	8,884	4.21	37,400.38	7.15	2.94	26,118.08
27 .	06/20/2003	8,780	4.21	36,964.43	7.15	2.94	25,813.64
28 .	06/21/2003	8,690	4.21	36,585.64	7.15	2.94	25,549.11
29 .	06/23/2003	8,697	4.21	36,615.32	7.15	2.94	25,569.84
30 .	06/23/2003	8,691	4.21	36,587.95	7.15	2.94	25,550.73
31 .	06/24/2003	8,779	4.21	36,959.59	7.15	2.94	25,810.26
32 .	06/24/2003	8,690	4.21	36,583.22	7.15	2.94	25,547.42
33 .	06/25/2003	8,587	4.21	36,149.27	7.15	2.94	25,244.38
34 .	06/26/2003	8,681	4.21	36,547.33	7.15	2.94	25,522.36
35 .	Subtotal-2Q2003	294,374		\$1,239,313.91			\$865,459.12
<u>3Q2003</u>							
36 .	07/01/2003	8,589	\$4.21	\$36,160.53	\$7.15	\$2.94	\$25,252.25
37 .	07/02/2003	8,690	4.21	36,585.64	7.15	2.94	25,549.11
38 .	07/03/2003	8,501	4.21	35,788.68	7.15	2.94	24,992.57
39 .	07/03/2003	8,683	4.21	36,556.90	7.15	2.94	25,529.05
40 .	07/04/2003	8,489	4.21	35,738.16	7.15	2.94	24,957.29
41 .	07/05/2003	8,383	4.21	35,293.80	7.15	2.94	24,646.98

Calculation of Underpayments Before Interest Based on the SAC Maximum**Rate for McKinley to Cholla Movements****(05/22/2003 to 12/31/2003)**

	Shipment		Rate	Amount	SAC	Increase	
	<u>Date 1/</u>	<u>Tons 1/</u>	<u>Per Ton 1/</u>	<u>Paid 1/</u>	<u>Maximum</u>	<u>Per</u>	<u>Underpayments 4/</u>
	(1)	(2)	(3)	(4)	Rate 2/	Ton 3/	(7)
42 .	07/09/2003	8,492	4.21	35,750.90	7.15	2.94	24,966.19
43 .	07/10/2003	8,504	4.21	35,800.47	7.15	2.94	25,000.80
44 .	07/11/2003	8,415	4.21	35,427.57	7.15	2.94	24,740.39
45 .	07/12/2003	8,880	4.21	37,386.80	7.15	2.94	26,108.60
46 .	07/14/2003	8,871	4.21	37,348.07	7.15	2.94	26,081.55
47 .	07/15/2003	8,897	4.21	37,454.27	7.15	2.94	26,155.71
48 .	07/15/2003	7,715	4.21	32,480.47	7.15	2.94	22,682.32
49 .	07/16/2003	9,107	4.21	38,342.47	7.15	2.94	26,775.98
50 .	07/17/2003	8,877	4.21	37,371.96	7.15	2.94	26,098.23
51 .	07/18/2003	8,872	4.21	37,349.54	7.15	2.94	26,082.58
52 .	07/19/2003	8,601	4.21	36,210.42	7.15	2.94	25,287.09
53 .	07/19/2003	8,687	4.21	36,571.22	7.15	2.94	25,539.05
54 .	07/21/2003	8,773	4.21	36,932.44	7.15	2.94	25,791.30
55 .	07/22/2003	8,776	4.21	36,946.96	7.15	2.94	25,801.44
56 .	07/23/2003	8,097	4.21	34,087.63	7.15	2.94	23,804.67
57 .	07/24/2003	7,906	4.21	33,285.31	7.15	2.94	23,244.38
58 .	07/25/2003	7,713	4.21	32,470.26	7.15	2.94	22,675.19
59 .	07/26/2003	7,792	4.21	32,803.48	7.15	2.94	22,907.89
60 .	07/28/2003	7,779	4.21	32,750.12	7.15	2.94	22,870.63
61 .	07/28/2003	7,593	4.21	31,965.79	7.15	2.94	22,322.91
62 .	07/29/2003	7,600	4.21	31,994.11	7.15	2.94	22,342.68
63 .	08/04/2003	7,804	4.21	32,852.84	7.15	2.94	22,942.36
64 .	08/05/2003	8,895	4.21	37,448.16	7.15	2.94	26,151.45
65 .	08/05/2003	8,789	4.21	37,003.16	7.15	2.94	25,840.69
66 .	08/06/2003	8,880	4.21	37,383.43	7.15	2.94	26,106.24
67 .	08/07/2003	7,791	4.21	32,801.27	7.15	2.94	22,906.35
68 .	08/08/2003	8,773	4.21	36,932.96	7.15	2.94	25,791.66
69 .	08/09/2003	8,883	4.21	37,395.75	7.15	2.94	26,114.84
70 .	08/11/2003	8,989	4.21	37,844.22	7.15	2.94	26,428.03
71 .	08/11/2003	8,407	4.21	35,392.31	7.15	2.94	24,715.77
72 .	08/12/2003	8,903	4.21	37,483.31	7.15	2.94	26,176.00
73 .	08/13/2003	8,922	4.21	37,560.99	7.15	2.94	26,230.24
74 .	08/15/2003	8,879	4.21	37,380.80	7.15	2.94	26,104.41
75 .	08/16/2003	8,877	4.21	37,370.49	7.15	2.94	26,097.20
76 .	08/18/2003	8,993	4.21	37,859.27	7.15	2.94	26,438.54
77 .	08/18/2003	8,771	4.21	36,925.07	7.15	2.94	25,786.15
78 .	08/19/2003	8,396	4.21	35,346.53	7.15	2.94	24,683.80
79 .	08/23/2003	8,881	4.21	37,387.01	7.15	2.94	26,108.74
80 .	08/24/2003	8,695	4.21	36,607.63	7.15	2.94	25,564.48
81 .	08/25/2003	8,895	4.21	37,447.95	7.15	2.94	26,151.30
82 .	08/26/2003	7,315	4.21	30,796.15	7.15	2.94	21,506.10
83 .	08/26/2003	8,896	4.21	37,451.95	7.15	2.94	26,154.09
84 .	08/27/2003	8,683	4.21	36,554.06	7.15	2.94	25,527.06
85 .	08/28/2003	8,794	4.21	37,024.32	7.15	2.94	25,855.46
86 .	08/30/2003	8,881	4.21	37,389.12	7.15	2.94	26,110.21
87 .	09/02/2003	8,871	4.21	37,348.07	7.15	2.94	26,081.55

Calculation of Underpayments Before Interest Based on the SAC Maximum

Rate for McKinley to Cholla Movements

(05/22/2003 to 12/31/2003)

	Shipment		Rate	Amount	SAC	Increase	
	<u>Date 1/</u>	<u>Tons 1/</u>	<u>Per Ton 1/</u>	<u>Paid 1/</u>	<u>Maximum</u>	<u>Per</u>	<u>Underpayments 4/</u>
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
88 .	09/03/2003	8,905	4.21	37,488.79	7.15	2.94	26,179.82
89 .	09/04/2003	8,893	4.21	37,441.11	7.15	2.94	26,146.52
90 .	09/08/2003	8,889	4.21	37,423.53	7.15	2.94	26,134.25
91 .	09/09/2003	8,895	4.21	37,446.48	7.15	2.94	26,150.27
92 .	09/10/2003	8,880	4.21	37,385.64	7.15	2.94	26,107.79
93 .	09/12/2003	8,870	4.21	37,342.38	7.15	2.94	26,077.58
94 .	09/13/2003	8,883	4.21	37,399.43	7.15	2.94	26,117.42
95 .	09/13/2003	8,982	4.21	37,814.96	7.15	2.94	26,407.59
96 .	09/14/2003	8,878	4.21	37,374.49	7.15	2.94	26,100.00
97 .	09/15/2003	8,697	4.21	36,614.26	7.15	2.94	25,569.11
98 .	09/16/2003	8,905	4.21	37,491.52	7.15	2.94	26,181.73
99 .	09/16/2003	8,892	4.21	37,436.37	7.15	2.94	26,143.22
100 .	09/17/2003	8,994	4.21	37,866.00	7.15	2.94	26,443.24
101 .	09/18/2003	8,985	4.21	37,826.01	7.15	2.94	26,415.31
102 .	09/19/2003	8,709	4.21	36,664.47	7.15	2.94	25,604.17
103 .	09/20/2003	8,878	4.21	37,376.70	7.15	2.94	26,101.54
104 .	09/22/2003	8,879	4.21	37,381.01	7.15	2.94	26,104.55
105 .	09/22/2003	8,992	4.21	37,857.90	7.15	2.94	26,437.58
106 .	09/23/2003	8,905	4.21	37,491.31	7.15	2.94	26,181.58
107 .	09/25/2003	9,000	4.21	37,890.32	7.15	2.94	26,460.22
108 .	09/27/2003	8,907	4.21	37,497.10	7.15	2.94	26,185.62
109 .	09/27/2003	8,906	4.21	37,493.00	7.15	2.94	26,182.76
110 .	09/28/2003	8,892	4.21	37,433.32	7.15	2.94	26,141.08
111 .	09/29/2003	8,798	4.21	37,039.79	7.15	2.94	25,866.27
112 .	09/30/2003	<u>8,927</u>	4.21	<u>37,581.83</u>	7.15	2.94	<u>26,244.79</u>
113 .	Subtotal-3Q2003	666,484		\$2,805,898.48			\$1,959,463.55

4Q2003

114 .	10/02/2003	8,866	\$4.21	\$37,324.39	\$7.15	\$2.94	\$26,065.01
115 .	10/03/2003	8,974	4.21	37,779.70	7.15	2.94	26,382.97
116 .	10/05/2003	8,882	4.21	37,392.59	7.15	2.94	26,112.64
117 .	10/06/2003	8,969	4.21	37,758.12	7.15	2.94	26,367.90
118 .	10/07/2003	8,882	4.21	37,392.90	7.15	2.94	26,112.86
119 .	10/08/2003	8,889	4.21	37,420.80	7.15	2.94	26,132.34
120 .	10/09/2003	8,802	4.21	37,058.42	7.15	2.94	25,879.28
121 .	10/10/2003	8,680	4.21	36,542.17	7.15	2.94	25,518.76
122 .	10/11/2003	8,900	4.21	37,469.32	7.15	2.94	26,166.22
123 .	10/13/2003	8,892	4.21	37,433.74	7.15	2.94	26,141.38
124 .	10/14/2003	8,891	4.21	37,429.64	7.15	2.94	26,138.51
125 .	10/14/2003	9,004	4.21	37,906.63	7.15	2.94	26,471.61
126 .	10/15/2003	8,711	4.21	36,674.68	7.15	2.94	25,611.30
127 .	10/16/2003	8,808	4.21	37,081.68	7.15	2.94	25,895.52
128 .	10/16/2003	9,307	4.21	39,184.47	7.15	2.94	27,363.98
129 .	10/17/2003	8,892	4.21	37,435.64	7.15	2.94	26,142.70
130 .	10/18/2003	8,584	4.21	36,139.90	7.15	2.94	25,237.84
131 .	10/20/2003	8,907	4.21	37,499.21	7.15	2.94	26,187.09

Calculation of Underpayments Before Interest Based on the SAC Maximum

Rate for McKinley to Cholla Movements

(05/22/2003 to 12/31/2003)

	Shipment Date 1/ (1)	Tons 1/ (2)	Rate Per Ton 1/ (3)	Amount Paid 1/ (4)	SAC Maximum Rate 2/ (5)	Increase Per Ton 3/ (6)	Underpayments 4/ (7)
132 .	10/23/2003	8,895	4.21	37,449.00	7.15	2.94	26,152.04
133 .	10/24/2003	8,892	4.21	37,434.79	7.15	2.94	26,142.11
134 .	10/26/2003	8,876	4.21	37,369.85	7.15	2.94	26,096.76
135 .	10/26/2003	8,801	4.21	37,054.21	7.15	2.94	25,876.34
136 .	10/27/2003	8,982	4.21	37,814.54	7.15	2.94	26,407.30
137 .	10/28/2003	8,912	4.21	37,518.05	7.15	2.94	26,200.25
138 .	10/29/2003	8,788	4.21	36,996.85	7.15	2.94	25,836.28
139 .	10/29/2003	8,885	4.21	37,406.48	7.15	2.94	26,122.34
140 .	11/01/2003	8,979	4.21	37,802.01	7.15	2.94	26,398.55
141 .	11/02/2003	8,835	4.21	37,193.56	7.15	2.94	25,973.65
142 .	11/03/2003	9,098	4.21	38,301.11	7.15	2.94	26,747.09
143 .	11/04/2003	8,899	4.21	37,466.47	7.15	2.94	26,164.24
144 .	11/11/2003	8,889	4.21	37,423.22	7.15	2.94	26,134.03
145 .	11/11/2003	8,998	4.21	37,883.16	7.15	2.94	26,455.22
146 .	11/14/2003	8,969	4.21	37,761.07	7.15	2.94	26,369.96
147 .	11/18/2003	8,799	4.21	37,042.21	7.15	2.94	25,867.96
148 .	11/20/2003	8,490	4.21	35,743.22	7.15	2.94	24,960.82
149 .	11/21/2003	8,888	4.21	37,420.06	7.15	2.94	26,131.82
150 .	11/22/2003	8,705	4.21	36,645.95	7.15	2.94	25,591.23
151 .	11/24/2003	8,890	4.21	37,425.11	7.15	2.94	26,135.35
152 .	11/25/2003	8,875	4.21	37,365.64	7.15	2.94	26,093.82
153 .	11/27/2003	8,789	4.21	37,002.22	7.15	2.94	25,840.03
154 .	11/27/2003	9,108	4.21	38,343.84	7.15	2.94	26,776.93
155 .	11/29/2003	8,495	4.21	35,765.63	7.15	2.94	24,976.48
156 .	11/30/2003	8,888	4.21	37,416.69	7.15	2.94	26,129.47
157 .	11/30/2003	8,886	4.21	37,408.17	7.15	2.94	26,123.52
158 .	12/01/2003	8,885	4.21	37,404.80	7.15	2.94	26,121.17
159 .	12/03/2003	8,888	4.21	37,420.48	7.15	2.94	26,132.12
160 .	12/04/2003	8,883	4.21	37,397.64	7.15	2.94	26,116.17
161 .	12/04/2003	8,898	4.21	37,462.26	7.15	2.94	26,161.30
162 .	12/06/2003	8,981	4.21	37,809.38	7.15	2.94	26,403.70
163 .	12/07/2003	9,181	4.21	38,651.06	7.15	2.94	26,991.48
164 .	12/09/2003	8,891	4.21	37,429.01	7.15	2.94	26,138.07
165 .	12/10/2003	8,898	4.21	37,461.11	7.15	2.94	26,160.49
166 .	12/10/2003	8,894	4.21	37,443.63	7.15	2.94	26,148.29
167 .	12/11/2003	8,789	4.21	37,002.01	7.15	2.94	25,839.88
168 .	12/12/2003	8,797	4.21	37,033.48	7.15	2.94	25,861.86
169 .	12/14/2003	8,694	4.21	36,599.64	7.15	2.94	25,558.89
170 .	12/15/2003	8,941	4.21	37,641.93	7.15	2.94	26,286.76
171 .	12/17/2003	8,810	4.21	37,088.31	7.15	2.94	25,900.15
172 .	12/17/2003	8,990	4.21	37,846.64	7.15	2.94	26,429.72
173 .	12/18/2003	9,004	4.21	37,905.26	7.15	2.94	26,470.66
174 .	12/19/2003	8,699	4.21	36,622.47	7.15	2.94	25,574.84
175 .	12/20/2003	8,294	4.21	34,919.00	7.15	2.94	24,385.24
176 .	12/20/2003	8,880	4.21	37,386.17	7.15	2.94	26,108.16
177 .	12/22/2003	9,187	4.21	38,675.48	7.15	2.94	27,008.53

**Calculation of Underpayments Before Interest Based on the SAC Maximum
Rate for McKinley to Cholla Movements
(05/22/2003 to 12/31/2003)**

	Shipment Date 1/ (1)	Tons 1/ (2)	Rate Per Ton 1/ (3)	Amount Paid 1/ (4)	SAC Maximum Rate 2/ (5)	Increase Per Ton 3/ (6)	Underpayments 4/ (7)
178 .	12/23/2003	5,834	4.21	24,559.56	7.15	2.94	17,150.86
179 .	12/23/2003	9,100	4.21	38,311.00	7.15	2.94	26,754.00
180 .	12/26/2003	8,991	4.21	37,853.37	7.15	2.94	26,434.42
181 .	12/27/2003	9,103	4.21	38,325.10	7.15	2.94	26,763.85
182 .	12/29/2003	9,066	4.21	38,167.65	7.15	2.94	26,653.89
183 .	12/29/2003	8,906	4.21	37,493.94	7.15	2.94	26,183.42
184 .	12/30/2003	8,899	4.21	37,463.42	7.15	2.94	26,162.10
185 .	12/31/2003	8,888	4.21	37,419.11	7.15	2.94	26,131.16
186 .	12/31/2003	8,899	4.21	37,465.63	7.15	2.94	26,163.65
187 .	Subtotal-4Q2003	645,519		\$2,717,635.62			\$1,897,826.30
188 .	Grand Total (05/22/03 Through 12/31/03)	1,606,377		\$6,762,848.01			\$4,722,748.97

1/ See APS electronic file "ARIZONA PUBLIC SERVICE 2001 2003_REV.XLS"

2/ See Errata Exhibit (MRB- 2)

3/ Column (2) - Column (5)

4/ Column (2) x Column (6)