



Aquila

7101 Mercy Road
Suite 400
Omaha, NE 68106

FILED⁴

OCT 30 2002

Missouri Public
Service Commission

October 29, 2002

Mr. Dale Hardy Roberts, Secretary, Chief Regulatory Law Judge
Missouri Public Service Commission
200 Madison Street
Jefferson City, MO 65101

RE: Case No. GR-2002-468

Dear Mr. Roberts:

Enclosed for your consideration is an original and three copies of the following proposed tariff sheet:

PSC MO No. 4 Gas Tariff Sheet

57th Revised Sheet No. 9.4, Cancelling 56th Revised Sheet No. 9.4

Also enclosed are copies of the following:

- Enclosure 1: Seasonal System Gas Supply worksheet
- Enclosure 2: Current Gas Cost Calculation
- Enclosure 3: PGA factor calculation worksheet
- Enclosure 4: Winter RPGA Revenue Requirement worksheet
- Enclosure 5: Typical residential customer worksheet
- Enclosure 6: DCCB Monthly Calculation for Sep '01 through Aug '02
- Enclosure 7: Gas Cost Under Collection Factor worksheet
- Enclosure 8: Calculation of the ACA factor
- Enclosure 9: Calculation of the TC factor

The purpose of this filing is to implement revised PGA factors in compliance with the Company's Purchased Gas Adjustment (PGA) Clause. The Company proposes the following:

- 1) Implement a revised Transition Costs (TC) Factor as required by the Company's PGA Clause of \$.0042/ccf.
- 2) Implement a revised ACA Factor as required by the Company's PGA Clause of (\$.0067)/ccf.
- 3) Implement a revised RPGA Factor for the winter season as required by the Company's PGA Clause of \$.3891/ccf.

The RPGA factor will decrease \$.1051 per Ccf for all retail customers. In accordance with the 'Schedule RPGA Filing Commodity Revenue Requirement' section I.A.1. of the Company's PGA Clause, the Company estimated the required winter revenue relating to the commodity portion of gas costs. The Company has filed a factor of \$.3891 per Ccf using the current month's commodity cost. This calculated price is reflected on the Season System Gas Supply worksheet.

The net effect, when compared to the current summer PGA factor, is a decrease of \$0.1684 per Ccf for all retail customers. The result is a decrease of \$18.12 or about 21.6% per winter month below the summer price.

The requested effective date for the winter Purchased Gas Adjustment rates is less than thirty days from the date of filing. As outlined on PSC MO No. 4, 7th Revised Sheet No. 8, the Company is requesting that this PGA filing become effective November 13, 2002.

Sincerely,



Amy Winkler
Regulatory Analyst

Enclosures

cc: Office of the Public Counsel (2)
Gary Duffy

STATE OF MISSOURI, PUBLIC SERVICE COMMISSION

P.S.C. MO. No.	<u>4</u>	<u>57th</u>	Original	Sheet No.	<u>9.4</u>
			Revised		
Cancelling P.S.C. MO. No.	<u>4</u>	<u>56th</u>	Original	Sheet No.	<u>9.4</u>
			Revised		

St. Joseph Light & Power, a division of
Aquila Inc. d/b/a Aquila Networks.
KANSAS CITY, MO 64138

FOR: All Territory Served by St. Joseph Light & Power

PURCHASED GAS ADJUSTMENT CLAUSE NATURAL GAS
--

PGA ADJUSTMENT SHEET

As provided in Sheet No's. 8 through 9.33 of the Purchased Gas Adjustment Clause, the following adjustments in dollars (\$) per Ccf will become effective on the effective date of this tariff.

	<u>RPGA</u>	<u>ACA</u>	<u>Refund</u>	<u>TOP<></u>	<u>TC<></u>	<u>TOTAL</u>
*	<u>Factor</u>	<u>Factor</u>	<u>Factor</u>	<u>Factor</u>	<u>Factor</u>	<u>PGA</u>
	0.3891	(0.0067)	0.0000	0.0000	0.0042	0.3866

<> Schedule 971 customers will be billed the TOP factor and the TC factor listed above for all volumes transported.

*indicates new rate or text
+indicates change

DATE OF ISSUE: October 29, 2002
ISSUED BY: Steven M. Jurek, Regulatory Services

EFFECTIVE DATE: November 13, 2002

Seasonal System Gas Supply

SYSTEM Data

			Pipeline Fees	
STS Contract MDQ in Dth/day	15,338		Transport Charge	\$0.9223
Daily Storage Maximum (BMDWQ)	8,436		ACA Charge	\$0.0022
Daily Transport Maximum (MDTQ)	6,902		GRI Charge	\$0.0088
Maximum Storage (MSQ)	421,800		Volumetric Charge	\$0.0000
Minimum Winter Withdrawal	337,440		Rate Adjustment	\$0.0000
Average Daily Winter Withdrawal	2235		Transport Use Fee	3.90%
			Storage Use Fee	2.16%
Ave. Injected Price--Storage Gas	\$3.2712			
Ave. 'Back to Gate' Price-- Storage Gas	\$3.3419	=(Average Injected Price+Storage Use Fee)		
Current Month Price of Gas	\$3.3950			
Current Average Cost Delivered 'To Gate'	\$4.4971	=(Filed Price+Transport+ACA+GRI+Volumetric+Rate Adj+Transport Use Fee)		

Winter Month	Days	System Budget Dth	Storage Use Dth	Production Transport Dth	Monthly Total Cost	Average Cost per Dth
Nov-02	30	80,885	67,041	13,844	\$286,302.10	\$3.54
Dec-02	31	150,381	69,276	81,105	\$596,251.04	\$3.96
Jan-03	31	184,716	69,276	115,440	\$750,658.96	\$4.06
Feb-03	28	126,607	62,572	64,035	\$497,081.56	\$3.93
Mar-03	31	100,420	69,276	31,144	\$371,571.42	\$3.70
Winter Total	151	643,009	337,440	305,569	\$2,501,865.08	\$3.89
Summer Month		System Budget Dth	Storage Use Dth	Production Transport Dth	Monthly Total Cost	Average Cost per Dth
Apr-03	30	63,306	0	63,306	\$284,693.41	\$4.50
May-03	31	8,420	0	8,420	\$37,865.58	\$4.50
Jun-03	30	10,375	0	10,375	\$46,657.41	\$4.50
Jul-03	31	15,422	0	15,422	\$69,354.28	\$4.50
Aug-03	31	17,267	0	17,267	\$77,651.43	\$4.50
Sep-03	30	12,574	0	12,574	\$56,546.54	\$4.50
Oct-03	31	40,886	0	40,886	\$183,868.43	\$4.50
Summer Total	214	168,250	0	168,250	\$756,637.08	\$4.50
Annual Total	365	811,259	337,440	473,819	\$3,258,502.16	\$4.02

Ave. Winter Cost (Production + Storage)	\$3.8909	% Transport	58.41%
Ave. Summer Cost (Production only)	\$4.4971	% Storage	41.59%
Ave. Annual Cost (Winter + Summer)	\$4.0166		

St. Joseph Light & Power
Division of Aquila Inc. d/b/a Aquila Networks
Current Gas Cost Calculation

Enclosure 2

	<u>Nov-02</u>	<u>Dec-02</u>	<u>Jan-03</u>	<u>Feb-03</u>	<u>Mar-03</u>	<u>Totals</u>
SUMMARY OF COMMODITY COSTS						
Purchase Requirements	55,195	107,648	117,503	99,922	102,928	483,196
Storage Withdrawal	52,725	105,450	105,450	105,450	52,725	421,800
Storage WACOG	\$ 3.2712	\$ 3.2712	\$ 3.2712	\$ 3.2712	\$ 3.2712	
Total Cost	\$ 172,476	\$ 344,953	\$ 344,953	\$ 344,953	\$ 172,476	\$ 1,379,811
Purchases minus Storage	2,470	2,198	12,053	0	50,203	66,924
Contract 99722	1,086	4,729	5,635	0	23,404	34,853
Group 1 ANR Fuel %	2.46%	2.46%	2.46%	2.46%	2.46%	
	1,114	4,848	5,777	0	23,994	35,733
Contract 99723	1,384	1,176	6,418	0	26,799	35,778
Group 2 Fuel %	3.61%	3.61%	3.61%	3.61%	3.61%	
	1,436	1,220	6,659	0	27,803	37,118
Purchases minus Storage with Fuel	2,550	6,068	12,436	0	51,797	72,851
Contracted Fixed Price Supply	500	500	500	500	500	2,500
Contracted Price	\$ 4.077	\$ 4.272	\$ 4.342	\$ 4.194	\$ 4.029	
Total Cost	\$ 2,039	\$ 2,136	\$ 2,171	\$ 2,097	\$ 2,015	10,458
(Contracted Fixed Price Supply only applies in the winter months.)						
Total Supply	2,050	5,568	11,936	0	51,297	70,851
Forecasted Price (NYMEX-WNG Basis)*	\$ 4.077	\$ 4.272	\$ 4.342	\$ 4.194	\$ 4.029	
Total Cost	\$ 8,358	\$ 23,786	\$ 51,826	\$ -	\$ 206,676	\$ 290,646
<u>Forecasted Gas Commodity Cost</u>	182,873	370,875	398,950	347,050	381,167	1,680,915
<u>Forecasted Sales Gas Quantity</u>	55,275	111,518	117,886	105,950	104,522	495,151

Gas Cost (Commodity) Dth

\$3.3948

Calculation of the Winter PGA Factor
for all communities

Most recent monthly winter cost from seasonal analysis (\$/Ccf)*	0.3891
Seasonalized purchased volumes (Ccf)	6,430,090
Seasonalized sales volumes (Ccf)	6,430,090
RPGA factor (to be effective 11/13/02) (\$/Ccf)	\$0.3891
ACA factor (effective 11/13/02) (\$/Ccf)	(\$0.0067)
TC factor (effective 11/13/02) (\$/Ccf)	\$0.0042
Net PGA (to be effective 11/13/02) (\$/Ccf)	\$0.3866

* monthly Winter price is from the Seasonal System Gas Supply worksheet

St. Joseph Light Power Company

Enclosure 4

2002-2003 Winter RPGA Commodity Revenue Requirement -- Most Recent 3-years

Gas Supply Data	'99-'00 Purchased Production Mcf	'00-'01 Purchased Production Mcf	'01-'02 Purchased Production Mcf
November	95,000	56,924	38,681
December	54,200	68,204	73,437
January	95,800	86,800	43,462
February	49,000	56,000	39,256
March	0	78,500	28,666
Winter Total Mcf	294,000	346,428	223,502

Gas Commodity Expenses	'99-'00 Production \$	'99-'00 Production \$	'01-'02 Production \$
November	\$204,168.00	\$261,387.88	\$121,338.97
December	\$129,627.41	\$388,025.14	\$169,283.25
January	\$229,190.75	\$771,227.30	\$111,917.75
February	\$131,245.75	\$346,759.00	\$76,657.00
March	\$0.00	\$401,246.50	\$67,587.75
Total Winter \$	\$694,231.91	\$2,168,645.82	\$546,784.72
Winter Mcf	294000	346428	223502
Ave \$ / Mcf	\$2.3613	\$6.2600	\$2.4464
ACA Period Average	\$2.3613	\$6.2600	\$2.4464
	(Highest Ave)		
	\$ per Mcf		
3-yr Average	\$3.9467 = (3-yr \$ / 3-yr Mcf)		
Weighted Average	\$3.1966 = (3.6938+6.26) / 2		

SJLP Typical Residential Customer (Per winter month)

Service Charge/mo.	.....	\$6.66
Commodity Charge/Ccf	.....	\$0.1635
Current PGA factor	.....	\$0.5550
Proposed PGA factor	.....	\$0.3866
Current (Average)*	.....	\$83.97
Proposed(Average)*	.....	\$65.85
Average Difference	.....	(\$18.12)
Percent Change	.....	-21.60%

*[Average based on 538 Ccf winter usage]

DCCB Monthly Calculation -- for Sep '01 thru Aug '02

BALANCE CALCULATION

Month	PGE	Delivered Ccf	Average PGE / Ccf	Current RPGA	Difference	Billed Sales	Monthly DCCB	Annual Cumm. DCCB
Sep'01	\$267,759.12	162,670	\$1.6460	\$0.6545	\$0.9915	114,946	\$113,968.96	\$113,968.96
Oct'01	\$139,136.14	441,620	\$0.3151	\$0.6545	(\$0.3394)	214,145	(\$72,680.81)	\$41,288.15
Nov'01	\$198,775.15	513,960	\$0.3868	\$0.6545	(\$0.2677)	396,211	(\$106,065.68)	(\$64,777.54)
Dec'01	\$761,286.17	1,135,420	\$0.6705	\$0.4285	\$0.2420	742,574	\$179,702.91	\$114,925.37
Jan'02	(\$64,340.93)	1,319,970	\$0.0000	\$0.4285	(\$0.4285)	1,343,834	(\$575,832.87)	(\$460,907.50)
Feb'02	\$400,410.03	1,045,020	\$0.3832	\$0.4285	(\$0.0453)	1,156,095	(\$52,371.10)	(\$513,278.60)
Mar'02	\$497,029.11	1,204,560	\$0.4126	\$0.4285	(\$0.0159)	1,352,887	(\$21,510.90)	(\$534,789.51)
Apr'02	\$243,948.64	486,860	\$0.5011	\$0.4285	\$0.0726	829,463	\$60,219.01	(\$474,570.49)
May'02	\$176,761.43	255,580	\$0.6916	\$0.4942	\$0.1974	480,293	\$94,809.84	(\$379,760.65)
Jun'02	\$139,329.86	182,700	\$0.7626	\$0.4942	\$0.2684	226,670	\$60,838.23	(\$318,922.43)
Jul'02	\$94,583.33	143,730	\$0.6581	\$0.4942	\$0.1639	160,150	\$26,248.59	(\$292,673.84)
Aug'02	\$108,259.19	146,350	\$0.7397	\$0.4942	\$0.2455	133,353	\$32,738.16	(\$259,935.68)
Totals	\$2,962,937.24	7,038,440	\$0.4210			7,150,621	(\$259,935.68)	(\$259,935.68)

DCCB TRIGGERS

Under	DCCB Trigger =	\$172,194.15	<----- Note: these values calculated using 3-year average
Over	DCCB Trigger =	(\$172,194.15)	annual gas costs ending Aug '01

INTEREST CALCULATION

Month	Annual Cumm. DCCB	Outside Trigger	Prime Rate	Prime Rate minus 1%	Monthly Prime Rate	Interest \$ to ACA
Sep'01	\$113,968.96	\$0.00	6.000%	5.000%	0.417%	\$0.00
Oct'01	\$41,288.15	\$0.00	5.500%	4.500%	0.375%	\$0.00
Nov'01	(\$64,777.54)	\$0.00	5.000%	4.000%	0.333%	\$0.00
Dec'01	\$114,925.37	\$0.00	4.750%	3.750%	0.313%	\$0.00
Jan'02	(\$460,907.50)	(\$288,713.35)	4.750%	3.750%	0.313%	(\$902.23)
Feb'02	(\$513,278.60)	(\$341,084.45)	4.750%	3.750%	0.313%	(\$1,065.89)
Mar'02	(\$534,789.51)	(\$362,595.36)	4.750%	3.750%	0.313%	(\$1,133.11)
Apr'02	(\$474,570.49)	(\$302,376.34)	4.750%	3.750%	0.313%	(\$944.93)
May'02	(\$379,760.65)	(\$207,566.50)	4.750%	3.750%	0.313%	(\$648.65)
Jun'02	(\$318,922.43)	(\$146,728.28)	4.750%	3.750%	0.313%	(\$458.53)
Jul'02	(\$292,673.84)	(\$120,479.69)	4.750%	3.750%	0.313%	(\$376.50)
Aug'02	(\$259,935.68)	(\$87,741.53)	4.750%	3.750%	0.313%	(\$274.19)
Total Interest \$						(\$5,804.02)

St. Joseph Light & Power
ACA/PGA
2001

Month	Booked CCF Sales	Billed CCF Sales	Rates	Current Month Expenses	Prior Month Exp Adj	Total Expense	Booked Over/Under Recovery	Billed Over/Under Recovery	Booked Balance ACA	Booked Balance PGA	Billed Balance	Description
Balance									3,050.56	\$103,320.02	\$578,573.06	
Jan-01	1,643,599	1,897,846	0.5297	1,192,269.15	1,251.05	1,189,820.29	\$319,205.90	\$184,531.26		\$422,525.92	\$763,104.32	
			0.0016			3,699.91	\$1,070.15	\$663.36	\$4,120.71		\$763,767.68	
Feb-01	1,694,789	1,782,428	0.5297	853,684.41	(1,347.63)	849,694.54	(\$48,035.20)	(\$94,457.58)		\$374,490.72	\$669,310.10	
			0.0016			2,642.24	(\$69.42)	(\$209.64)	\$4,051.30		\$669,100.46	
Mar-01	1,399,488	1,471,949	0.5297	700,300.36	(31,901.02)	666,327.30	(\$74,981.49)	(\$113,364.08)		\$299,509.23	\$555,736.38	
			0.0016			2,072.04	(\$167.14)	(\$283.08)	\$3,884.15		\$555,453.30	
Apr-01	320,390	616,253	0.6545	231,991.59	(3,210.73)	228,231.79	\$18,536.53	(\$175,105.80)		\$318,045.76	\$380,347.50	
			0.0016			549.07	\$36.45	(\$436.93)	\$3,920.60		\$379,910.57	
May-01	243,847	275,017	0.6545	129,736.85	94,529.93	223,728.54	\$64,130.68	\$43,729.91		\$382,176.44	\$423,640.48	
			0.0016			538.24	\$148.09	\$98.21	\$4,068.69		\$423,738.69	
Jun-01	161,408	240,248	0.6545	111,887.31	50,742.97	162,239.97	\$56,598.43	\$4,997.65		\$438,774.87	\$428,736.34	
			0.0016			390.31	\$132.06	\$5.92	\$4,200.75		\$428,742.26	
Jul-01	81,460	137,730	0.6545	87,417.95	(4,412.64)	82,806.10	\$29,490.53	(\$7,338.19)		\$468,265.40	\$421,404.07	
			0.0016			199.21	\$68.88	(\$21.16)	\$4,269.62		\$421,382.92	
Aug-01	136,717	117,107	0.6545	123,878.77	(3,796.66)	119,793.91	\$30,312.64	\$43,147.38		\$498,578.03	\$464,530.30	
			0.0016			288.20	\$69.45	\$100.83	\$4,339.07		\$464,631.12	
Sep-01	135,336	114,946	0.6545	267,759.12	7,306.45	274,405.41	\$185,828.00	\$199,173.26		\$684,406.03	\$663,804.38	
			0.0016			660.16	\$443.62	\$476.24	\$4,782.69		\$664,280.62	
Oct-01	337,755	214,145	0.6545	139,136.14	(182,034.78)	(42,795.68)	(\$263,856.33)	(\$182,953.59)		\$420,549.70	\$481,327.04	
			0.0016			(102.96)	(\$643.36)	(\$445.59)	\$4,139.33		\$480,881.45	
Nov-01	609,541	396,211	0.6545	198,775.15	18,260.29	129,908.73	(\$109,458.02)	(\$25,683.33)		\$311,091.68	\$455,198.12	
18 Days		237,727	0.4285			76,448.56	(\$28,026.76)	\$8,538.00		\$283,064.92	\$463,736.12	
12 Days		158,484	0.0016			312.53	(\$272.83)	(\$67.83)	\$3,866.70		\$463,668.29	
			0.0581			10,365.61	(\$3,800.12)	\$1,157.67	\$66.58		\$464,825.96	
Dec-01	999,524	742,574	0.4285	761,286.17	690.55	670,996.70	\$242,700.67	\$352,803.74		\$525,765.59	\$817,629.70	
			0.0581			90,980.02	\$32,907.68	\$47,836.47	\$32,974.26		\$865,466.17	
Booked Balance	\$558,739.84											
Billed Balance	865,466.17											
	<u>\$306,726.33</u>											
			C. M. Unbilled CCFs		180,930							
			Factor		0.4866							
					<u>\$88,040.54</u>							

Revised 10/5/01 to account for change in PGA rate change that was effective 4/3/01

PGA/ACA rate changed effective 11/19/01. PGA/ACA for November was calculated with part of the month at the prior rate, and part of the month at the current rate.

St. Joseph Light & Power
ACA/PGA
2002

Month	Booked CCF Sales	Billed CCF Sales	Rates	Current Month Expenses	Prior Month Exp Adj	Total Expense	Booked Over/Under Recovery	Billed Over/Under Recovery	Booked Balance ACA	Booked Balance PGA	Billed Balance	Description
Balance									32,974.26	\$525,765.59	\$865,466.17	
Jan-02	1,291,514	1,343,834	0.4285 0.0581	(64,340.93)	(255,519.80)	(281,669.36)	(\$835,083.11)	(\$857,502.23)		(\$309,317.52)	\$7,963.94	
Feb-02	1,060,195	1,156,095	0.4285 0.0581	400,410.03	603,146.14	883,731.56	\$429,438.01	\$388,344.86	(\$80,254.07)	\$120,120.49	\$280,040.67	
Mar-02	1,460,677	1,352,887	0.4285 0.0581	497,029.11	73,991.90	502,841.10	(\$123,058.99)	(\$76,870.98)		(\$2,938.51)	\$255,825.18	
Apr-02	473,333	829,463	0.4285	243,948.64	11,370.87	82,439.27	\$8,070.76	(\$17,557.17)	(\$38,712.22)		\$227,845.18	
	11 days	304,136	0.4942			144,691.27	(\$3,458.80)	(\$72,785.91)		\$1,673.45	\$155,059.27	
	19 days	525,327	0.0581			28,188.98	\$688.33	(\$20,002.82)	(\$38,023.89)		\$135,056.45	
May-02	402,283	480,293	0.4942 0.0581	176,761.43	(174,664.32)	1,876.49	(\$196,931.76)	(\$235,484.31)		(\$195,258.31)	(\$100,427.86)	
Jun-02	166,030	226,670	0.4942 0.0581	139,329.86	10,000.28	133,620.61	\$51,568.58	\$21,600.30	(\$61,175.92)	(\$143,689.73)	(\$106,511.97)	
Jul-02	184,390	160,150	0.4942 0.0581	94,583.33	3,740.54	87,980.20	(\$3,145.34)	\$8,834.07	(\$55,112.73)	(\$146,835.07)	(\$95,137.90)	
Aug-02	121,193	133,353	0.4942 0.0581	108,259.19	10,639.40	106,390.46	\$46,496.88	\$40,487.41	(\$55,482.12)	(\$100,338.19)	(\$53,611.54)	
						12,508.13	\$5,466.82	\$4,760.32	(\$50,015.30)		(\$48,851.21)	

Calculation of the ACA factor
for all communities

=====	=====	=====	=====	=====	=====
Net ACA Balance(8/31/02)					(\$48,851.21)
DCCB Interest for 9/1/01 thru 8/31/02					<u>(\$5,804.02)</u>
Adjusted Total ACA Balance @ 8/31/02					(\$54,655.23)
Estimated Annual Sales Volumes (Ccf)					8,112,590
=====	=====	=====	=====	=====	=====
ACA Factor (\$/Ccf)					(\$0.0067)
=====	=====	=====	=====	=====	=====

Calculation of the TC factor
for all communities

Net TC Balance (@ 8/31/02)	\$10,143.63
Estimated Recovery for Sep and Oct'02 (776,217 * .0027)	(\$2,095.79)
Estimated Charges for Sep and Oct'02	\$5,184.24
Estimated 12 Month Dakota Charges (Nov'01 -- Oct'02) (\$0.169 * 15,338 MDQ * 12 months)	\$31,105.46
Estimated 12 Month Acct 191 Charges(Nov'01--Oct'02) (12 months * \$0)	\$0.00
Total 12 Month TC Expense to be recovered	\$44,337.55
Estimated Annual Retail Sales Volumes (Ccf)	8,112,590
Estimated Annual Transportation Volumes (Ccf)	2,534,210
Total Volume for System	10,646,800
TC Factor (\$/Ccf)	\$0.0042