

Exhibit No.:
Issue: Surcharge Tariff Filing
Witness: Frank A. DeBacker
Type of Exhibit: Direct Testimony
Sponsoring Party: UtiliCorp United Inc. DBA Missouri
Public Service
Docket No.: ER-2001-294

FILED²
JAN 11 2001
Missouri Public
Service Commission

Before the Public Service Commission
of the State of Missouri

Direct Testimony

of

Frank A. DeBacker

January 11, 2001

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI
DIRECT TESTIMONY OF FRANK A. DEBACKER
ON BEHALF OF MISSOURI PUBLIC SERVICE,
A DIVISION OF UTILICORP UNITED INC.
CASE NO. ER-2001-294**

1 Q. Please state your name and by whom you are employed.

2 A. My name is Frank A. DeBacker. I am employed by UtiliCorp United Inc.
3 ("UtiliCorp").

4 Q. Please state your position with UtiliCorp, your responsibilities, and your business
5 address.

6 A. I am employed by UtiliCorp as Vice President, Fuel and Purchased Power in its
7 domestic regulated electric utility operations. My business address is 10700 East
8 350 Highway, Kansas City, Missouri 64138.

9 Q. Please describe your responsibilities in that position.

10 A. Within its domestic regulated electric utility operations, UtiliCorp has
11 functionally separated the supply of electric energy from the transmission and
12 distribution of that energy. I am employed within the energy supply operation.
13 My major responsibility is the procurement of additional supplies of capacity and
14 energy through intermediate and long term Purchased Power Agreements
15 ("PPAs"). In addition, I am responsible for the supply side planning function for
16 UtiliCorp's electric utility operations. Finally, I am also responsible for the
17 procurement of coal fuel supplies for UtiliCorp's coal fired generation facilities in
18 Missouri and Colorado.

19 Q. What are your educational qualifications, training, and experience?

1 A. I hold a Bachelor of Science Degree in Electrical Engineering from Wichita State
2 University and have twenty-seven years of experience in regulated utility
3 operations. I began my electric utility career in 1972 with the Central Kansas
4 Power Company (now Midwest Energy) in Hayes, Kansas. In 1985, I joined
5 CENTEL Corporation's Colorado electric operations as engineering manager.
6 The CENTEL electric operations in Colorado and Kansas were purchased by
7 UtiliCorp in 1991 and are now the WestPlains Energy division of UCU. Since
8 1991, I have held various positions within UtiliCorp in the areas of engineering,
9 system operations, system planning, new plant development and fuel procurement
10 for UtiliCorp's U.S. regulated electric operations. I have been in my current
11 position since 1997.

12 Q. On whose behalf are you appearing in this proceeding?

13 A. I am testifying on behalf of its Missouri Public Service ("MPS"), a division of
14 UtiliCorp.

15 Q. Was the analysis described in your testimony prepared by you or someone under
16 your direction and supervision?

17 A. Yes.

18 Q. What is the purpose of your testimony in this matter?

19 A. My testimony will describe the projected impact of higher natural gas and
20 corresponding market energy prices on MPS's 2001 fuel and purchased power
21 costs.

22 Q. How does MPS determine its projected fuel and purchased power costs?

1 A. MPS uses the RealTime® production costing software from the Emelar Group.
2 RealTime® operates in a chronological fashion, solving each hour's demands
3 before moving to the next hour, closely simulating the way a utility operates its
4 power supply portfolio. RealTime® solves each hour's demand based upon many
5 factors. It schedules units and contracts economically based upon fuel cost, start
6 up cost, emission cost, O&M cost and available contract energy.
7 The chronological nature of RealTime® enables the software to provide detailed
8 hourly status reports for the system being analyzed. Output information includes
9 production amounts, fuel costs, total costs, marginal costs, average system costs,
10 emissions, etc. for each power supply resource included in the model.
11 RealTime® is very useful for the evaluation of the impact of changing fuel and
12 market energy prices.

13 Q. How did MPS determine the impact of higher natural gas and market energy
14 prices on its projected 2001 power supply costs?

15 A. MPS modeled its power supply system using the RealTime® software together
16 with three different pricing scenarios for natural gas and market energy pricing to
17 determine the impact of higher prices on its cost of energy supply.

18 Q. Please describe the three pricing scenarios for natural gas and market energy
19 prices.

20 A. To study the impact of natural gas prices on its 2001 fuel and purchased power
21 costs, MPS used the following price levels for natural gas as a basis for the three
22 pricing scenarios:

- 23 • Natural gas price equal to the 11/01/00 NYMEX forecast
- 24 • Natural gas at 80% of 11/01/00 NYMEX forecast

- 1 • Natural gas an 120% of 11/01/00 NYMEX forecast

2 : The natural gas forecasts are shown in Schedule FAD-1.

3 Based on the above natural gas price forecasts, corresponding wholesale market
4 energy price forecasts were created.

5 Q. How were the wholesale market price forecasts determined?

6 A. MPS contracted with Hill and Associates to create three market price forecasts
7 corresponding to the above gas price forecasts. These price forecasts were
8 made for the northern region of the Southwest Power Pool ("SPP"), the region
9 within which MPS operates. A copy of the Hill & Associates forecast for 2001
10 is contained in Schedule FAD-2.

11 Q. What was the price history for market electric energy prices in the year 2000?

12 A. Schedule FAD-3 shows the weekly on peak wholesale electric and natural gas
13 prices for 2001. Note that price for both commodities increase throughout the
14 year with price spikes in the summer period for electric energy.

15 Q. What were the results of the analysis of MPS's projected 2001 fuel and
16 purchased power costs?

17 A. Based on the above, the projected 2001 fuel and purchased power cost for MPS
18 are as follows:

	<u>Natural Gas</u>			<u>Avg NG</u>
	<u>Pct NYMEX</u>	<u>Fuel & PP Cost</u>	<u>\$/MWh</u>	<u>\$/MMBtu</u>
21	80%	\$101,433,180	\$18.264	\$3.309
22	100%	\$113,079,649	\$20.361	\$4.147
23	120%	\$124,728,095	\$22.458	\$4.972

24
25 Complete data outputs from the RealTime® model are shown in Schedule
26 FAD-4.

1 As can be seen from the above a \$0.10/MMBtu change in the average annual
2 cost of natural gas causes a \$1.4 million change in the MPS annual cost of
3 energy supply. As a point of comparison, the average fuel and purchased power
4 cost per megawatt-hour in the last MPS last rate case was \$11.97/MWh. Thus,
5 the projected 2001 cost of energy for MPS range from 153 to 188 percent of that
6 which was allowed in its last rate case.

7 Q. What was the average fuel and purchased power cost per megawatt-hour for the
8 years 1998, 1999 and 2000?

9 A. Those costs were \$15.38, \$14.92, and \$16.78 (YTD 11/00) respectively.

10 Components of these costs are shown in Schedule FAD-5.

11 Q. Does this conclude your testimony at this time?

12 A. Yes.

13

November 1, 2001
NYMEX 2001 Natural Gas Price Forecast

MONTH <u>Date</u>	80% of <u>NYMEX</u>	NYMEX <u>11/01/00</u>	120% of <u>NYMEX</u>
Jan-01	3.781	4.726	5.671
Feb-01	3.658	4.573	5.488
Mar-01	3.502	4.378	5.254
Apr-01	3.342	4.178	5.014
May-01	3.280	4.100	4.920
Jun-01	3.272	4.090	4.908
Jul-01	3.274	4.093	4.912
Aug-01	3.272	4.090	4.908
Sep-01	3.144	3.930	4.716
Oct-01	3.276	4.095	4.914
Nov-01	3.248	4.060	4.872
Dec-01	3.457	4.321	5.185

Hill and Associates 2001 Market Price Forecast

	<u>Dec. - Feb.</u>			<u>Mar. - May</u>			<u>Jun. - Aug.</u>			<u>Sep. - Nov.</u>		
	Spike	On- Peak	Off- Peak	Spike	On- Peak	Off- Peak	Spike	On- Peak	Off- Peak	Spike	On- Peak	Off- Peak
Low Forecast	35.95	34.11	17.96	35.46	36.81	29.76	48.60	37.67	18.42	44.02	39.16	36.73
Base Forecast	42.67	40.61	18.39	43.67	44.71	35.60	56.77	45.68	19.03	50.29	46.95	43.81
High Forecast	49.45	47.47	18.80	52.08	52.13	41.53	63.66	54.07	19.49	57.38	54.97	50.94

Spike = Hours ending 1300 to 1500, Monday to Saturday

On Peak = Hours ending 0700 to 2200, Monday to Saturday except spike hours

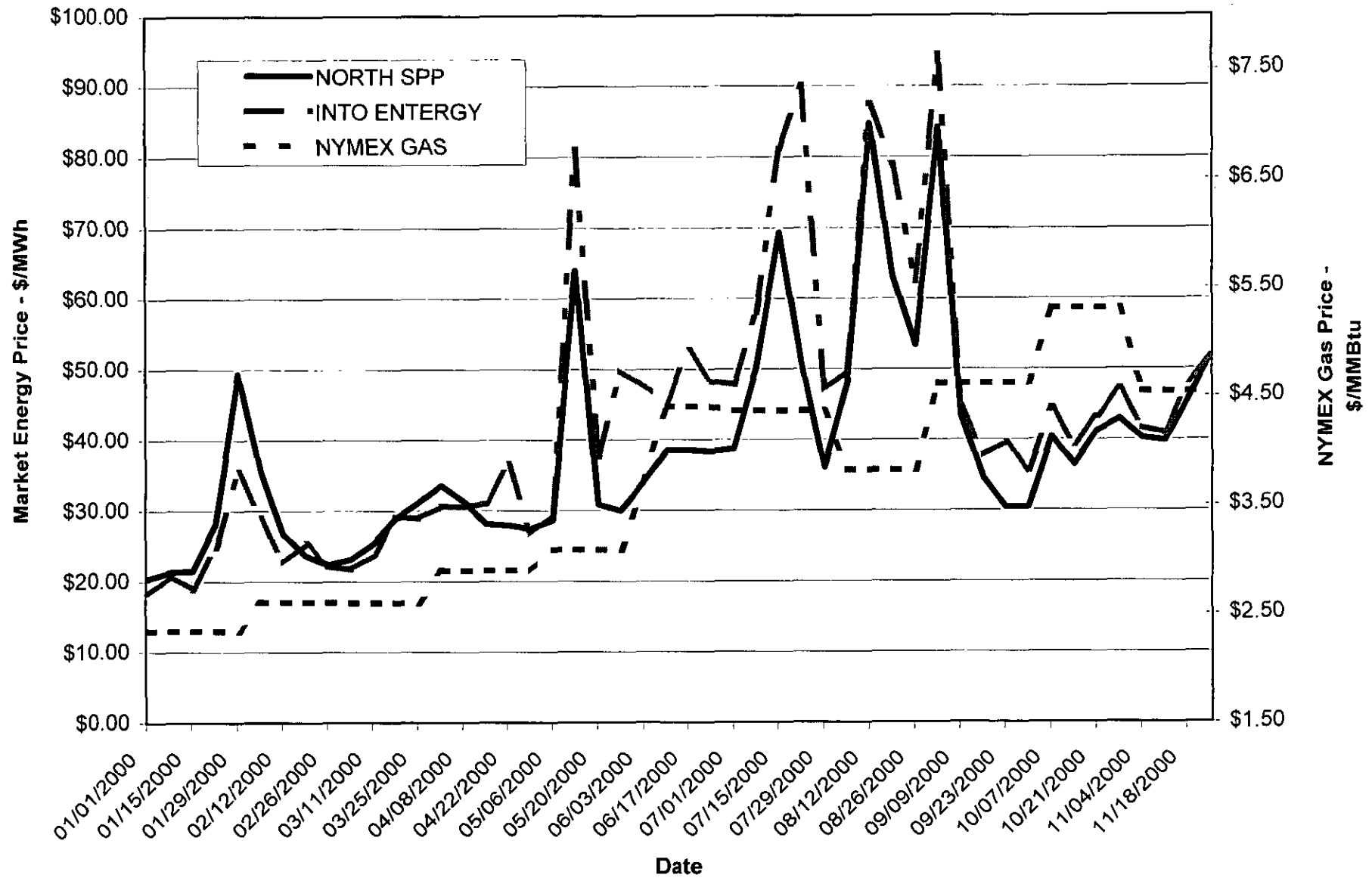
Off Peak = Hours ending 2300 to 0600 and all hours on Sundays

Low price forecast based on 80% of NYMEX gas price forecast shown in Schedule FAD-1

Base price forecast based on 100% of NYMEX gas price forecast shown in Schedule FAD-2

High price forecast based on 120% of NYMEX gas price forecast shown in Schedule FAD-3

CY 2000 Wholesale Electric Gas Prices



RealTime Output - 100% NYMEX Gas Price

Total Expense (\$)

Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
01 SIBLEY 1	366,927	320,971	459,791	331,293	195,210	291,004	362,061	343,710	318,556	210,530	384,019	360,431	3,944,503
02 SIBLEY 2	310,542	286,026	486,664	362,058	163,897	311,425	371,612	358,252	319,265	376,109	160,487	345,334	3,851,671
03 SIBLEY 3	2,858,412	2,055,180	-	1,450,281	2,653,858	2,433,156	2,677,613	2,647,949	1,515,266	2,343,365	2,949,609	2,903,232	26,487,921
04 JEFFREY 1	491,659	447,411	174,168	470,792	532,506	453,547	457,083	454,902	441,838	105,372	232,308	523,380	4,784,966
05 JEFFREY 2	487,994	448,617	173,889	491,016	535,660	472,230	501,644	506,969	473,103	473,849	-	361,106	4,926,077
06 JEFFREY 3	494,094	442,818	552,775	351,448	73,207	426,910	448,899	437,594	454,065	307,742	535,534	510,084	5,035,170
07 R. GREEN 3	-	14,764	293,599	-	2,933	11,296	9,152	7,414	24,529	102,081	31,580	33,384	530,732
08 GREENWOOD 1	-	55,454	731,602	4,916	24,099	31,729	66,557	40,938	52,761	57,358	94,689	59,804	1,219,907
09 GREENWOOD 2	36,942	80,735	338,212	4,998	14,144	24,943	50,628	23,411	44,516	271,605	28,738	29,505	948,377
10 GREENWOOD 3	8,965	62,760	152,871	4,576	4,391	22,831	37,390	16,464	33,075	266,887	47,588	7,133	664,931
11 GREENWOOD 4	6,959	19,303	96,674	-	1,782	6,568	15,446	3,185	1,954	80,547	18,729	7,356	258,503
12 NEVADA 1	10,151	73,396	413,283	71,352	17,813	10,016	16,563	13,268	5,930	93,741	20,248	23,754	769,515
13 KCI 1	830	5,579	4,773	130	147	858	2,308	363	163	4,949	-	596	20,696
14 KCI 2	-	3,541	6,752	-	-	653	3,624	477	2,178	11,045	634	-	28,904
AQP PKR 1	-	-	-	-	-	2,913,277	3,650,565	3,207,921	2,941,823	-	-	-	12,713,586
AQP PKR 2	-	-	-	-	-	2,786,966	3,556,033	3,476,936	3,160,678	-	-	-	12,980,613
SEC PKNG	155,200	683,531	2,909,214	59,453	130,895	184,273	413,909	311,775	54,033	247,078	64,928	101,607	5,315,896
EMER2	1,460	14,101	9,830	30	-	4,704	31,975	215	10,241	25,920	110	550	99,136
MKT BUY4	945,683	1,540,783	8,065,064	3,931,752	2,194,465	948,459	1,658,717	1,297,432	1,559,570	2,738,944	2,182,464	1,435,212	28,498,545
TOTAL	6,175,818	6,554,970	14,869,161	7,534,095	6,545,007	11,334,845	14,331,779	13,149,175	11,413,544	7,717,122	6,751,665	6,702,468	113,079,649

Generation (MWH)

Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
01 SIBLEY 1	27,845	24,374	35,077	25,094	14,674	21,820	26,969	25,536	23,687	15,788	28,698	26,926	296,488
02 SIBLEY 2	22,276	20,598	35,479	26,172	11,734	22,253	26,424	25,334	22,639	26,805	11,357	24,506	275,577
03 SIBLEY 3	260,793	187,276	-	132,093	242,836	220,784	239,826	237,141	134,873	210,705	266,365	263,821	2,396,513
04 JEFFREY 1	40,456	36,771	12,814	38,556	40,257	36,530	36,947	36,415	35,482	7,667	16,807	41,232	379,934
05 JEFFREY 2	40,041	37,036	12,857	40,237	40,722	38,158	40,012	40,694	38,074	34,604	-	29,490	391,925
06 JEFFREY 3	40,606	36,319	40,906	26,537	6,414	34,303	36,009	34,955	36,383	22,313	38,941	40,309	393,995
07 R. GREEN 3	-	239	5,081	-	48	207	171	136	489	1,976	619	580	9,546
08 GREENWOOD 1	-	867	12,933	89	461	608	1,272	787	1,071	1,115	1,856	1,027	22,086
09 GREENWOOD 2	581	1,319	5,942	90	267	474	963	445	902	5,299	562	501	17,345
10 GREENWOOD 3	135	1,016	2,680	83	83	423	709	314	671	5,194	929	120	12,357
11 GREENWOOD 4	83	277	1,233	-	25	97	238	48	28	1,146	267	102	3,544
12 NEVADA 1	158	1,119	6,095	1,017	261	149	245	196	87	1,384	301	356	11,368
13 KCI 1	11	76	65	2	2	13	34	5	2	70	-	8	288
14 KCI 2	-	46	84	-	-	9	48	6	29	138	8	-	368
AQP PKR 1	-	-	-	-	-	61,772	78,579	68,578	65,913	-	-	-	274,842
AQP PKR 2	-	-	-	-	-	59,074	76,412	74,211	70,609	-	-	-	280,306
SEC PKNG	2,389	10,856	48,174	1,030	2,308	3,257	7,309	5,510	992	4,361	1,156	1,704	89,046
EMER2	15	132	98	-	-	33	179	2	94	259	1	6	819
MKT BUY4	27,127	46,003	196,082	94,830	52,168	26,188	40,873	33,436	33,301	58,703	46,506	42,259	697,476
TOTAL	462,516	404,324	415,600	385,830	412,260	526,152	613,219	583,749	465,326	397,527	414,373	472,947	5,553,823

RealTime Output - 100% NYMEX Gas Price

Average Cost (\$/MWH)

<u>Source</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>TOTAL</u>
01 SIBLEY 1	13.178	13.169	13.108	13.202	13.303	13.337	13.425	13.460	13.448	13.335	13.381	13.386	13.304
02 SIBLEY 2	13.941	13.886	13.717	13.834	13.968	13.995	14.064	14.141	14.102	14.031	14.132	14.092	13.977
03 SIBLEY 3	10.960	10.974	-	10.979	10.929	11.021	11.165	11.166	11.235	11.122	11.074	11.005	11.053
04 JEFFREY 1	12.153	12.167	13.592	12.211	13.228	12.416	12.371	12.492	12.452	13.744	13.822	12.694	12.594
05 JEFFREY 2	12.187	12.113	13.525	12.203	13.154	12.376	12.537	12.458	12.426	13.693	-	12.245	12.569
06 JEFFREY 3	12.168	12.192	13.513	13.244	11.415	12.445	12.466	12.519	12.480	13.792	13.752	12.654	12.780
07 R. GREEN 3	-	61.698	57.783	-	60.607	54.515	53.581	54.553	50.161	51.671	50.994	57.538	55.597
08 GREENWOOD 1	-	63.983	56.569	55.488	52.287	52.194	52.304	51.991	49.268	51.433	51.007	58.238	55.234
09 GREENWOOD 2	63.638	61.196	56.916	55.406	53.052	52.611	52.563	52.634	49.368	51.253	51.171	58.869	54.677
10 GREENWOOD 3	66.307	61.777	57.050	55.002	53.155	54.012	52.758	52.400	49.278	51.383	51.242	59.492	53.810
11 GREENWOOD 4	83.744	69.662	78.387	-	70.711	67.570	64.870	66.918	69.521	70.310	70.042	71.909	72.941
12 NEVADA 1	64.082	65.602	67.810	70.132	68.353	67.446	67.548	67.593	68.085	67.756	67.359	66.650	67.691
13 KCI 1	79.024	73.899	73.207	86.728	73.303	66.998	68.908	68.469	81.611	70.597	-	77.439	71.861
14 KCI 2	-	77.318	80.092	-	-	71.029	75.182	78.257	75.904	80.095	84.535	-	78.543
AQP PKR 1	-	-	-	-	-	47.162	46.457	46.778	44.632	-	-	-	46.258
AQP PKR 2	-	-	-	-	-	47.178	46.538	46.852	44.763	-	-	-	46.309
SEC PKNG	64.978	62.963	60.390	57.750	56.723	56.579	56.632	56.579	54.474	56.659	56.190	59.636	59.698
EMER2	100.000	106.584	100.000	100.000	-	141.256	179.131	134.462	109.410	100.000	100.000	100.000	121.045
MKT BUY4	34.862	33.493	41.131	41.461	42.066	36.217	40.583	38.804	46.833	46.658	46.928	33.962	40.860
TOTAL	13.353	16.212	35.778	19.527	15.876	21.543	23.371	22.525	24.528	19.413	16.294	14.172	20.361

RealTime Output - 120 % of Nymex Gas Price

Total Expense (\$)

Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
01 SIBLEY 1	366,998	320,978	459,513	329,839	195,198	290,972	361,646	343,891	321,745	210,401	384,100	360,503	3,945,784
02 SIBLEY 2	310,359	286,085	487,923	366,755	163,915	310,782	371,443	358,054	323,621	376,097	160,507	345,357	3,860,898
03 SIBLEY 3	2,858,363	2,055,063	-	1,450,585	2,654,016	2,447,630	2,696,244	2,667,026	1,543,872	2,343,501	2,949,676	2,903,362	26,569,338
04 JEFFREY 1	491,171	447,556	173,983	469,223	532,542	446,821	446,657	442,061	449,080	105,395	232,288	523,478	4,760,255
05 JEFFREY 2	488,356	449,419	174,155	489,633	534,908	472,628	500,653	507,258	473,033	474,080	-	361,069	4,925,192
06 JEFFREY 3	494,203	443,457	559,300	354,541	73,261	420,101	442,046	432,191	459,181	307,298	535,794	509,762	5,031,135
07 R. GREEN 3	-	6,179	1,320	-	3,401	6,289	8,617	6,933	29,958	69,712	-	-	132,409
08 GREENWOOD 1	-	-	-	4,860	27,842	38,059	79,096	48,701	71,220	69,030	114,333	78,074	531,215
09 GREENWOOD 2	7,236	22,215	5,603	502	16,191	30,027	54,170	28,981	44,144	326,763	34,438	48,992	619,262
10 GREENWOOD 3	-	26,911	8,435	430	5,060	22,905	46,442	19,651	33,107	317,412	58,343	9,654	548,350
11 GREENWOOD 4	-	15,020	-	-	2,145	7,115	17,053	4,718	6,031	125,816	23,289	24,982	226,169
12 NEVADA 1	16,020	84,545	662,178	223,078	23,647	13,773	22,042	17,914	30,043	116,152	28,761	34,001	1,272,154
13 KCI 1	-	5,181	-	-	-	942	2,918	361	730	1,267	-	-	11,399
14 KCI 2	-	2,212	-	-	-	678	4,515	435	2,832	3,094	-	-	13,766
AQP PKR 1	-	-	-	-	-	3,481,005	4,367,807	3,830,380	3,410,625	-	-	-	15,089,817
AQP PKR 2	-	-	-	-	-	3,326,661	4,239,068	4,142,217	3,363,758	-	-	-	15,071,704
SEC PKNG	210,578	865,051	3,635,532	49,537	142,474	44,796	115,118	61,736	72,519	170,853	55,716	108,856	5,532,766
EMER2	52,280	230,919	1,829,830	150	350	6,643	33,182	296	10,313	41,190	800	13,650	2,219,603
MKT BUY4	1,078,407	1,744,238	9,557,761	4,496,335	2,575,961	1,256,051	2,261,345	1,783,421	2,085,030	3,297,430	2,582,125	1,648,775	34,366,879
TOTAL	6,373,971	7,005,029	17,555,533	8,235,468	6,950,911	12,623,878	16,070,062	14,696,225	12,730,842	8,355,491	7,160,170	6,970,515	124,728,095

Generation (MWH)

Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
01 SIBLEY 1	27,836	24,382	35,051	24,920	14,673	21,822	26,945	25,552	23,928	15,780	28,707	26,933	296,529
02 SIBLEY 2	22,265	20,594	35,748	26,511	11,735	22,211	26,396	25,329	22,964	26,804	11,357	24,498	276,412
03 SIBLEY 3	260,789	187,265	-	132,122	242,852	222,202	241,603	238,967	137,584	210,716	266,371	263,833	2,404,304
04 JEFFREY 1	40,421	36,788	12,801	38,429	40,257	35,864	35,974	35,226	36,192	7,668	16,805	41,236	377,661
05 JEFFREY 2	40,068	37,115	12,876	40,143	40,664	38,127	39,813	40,599	38,145	34,622	-	29,484	391,656
06 JEFFREY 3	40,615	36,379	41,385	26,770	6,415	33,608	35,261	34,386	36,817	22,282	38,961	40,276	393,155
07 R. GREEN 3	-	88	14	-	46	98	132	109	498	1,095	-	-	2,080
08 GREENWOOD 1	-	-	-	69	439	605	1,262	780	1,193	1,116	1,864	1,115	8,443
09 GREENWOOD 2	100	320	69	6	252	476	862	454	736	5,298	559	701	9,833
10 GREENWOOD 3	-	382	101	6	78	364	738	311	548	5,126	948	139	8,741
11 GREENWOOD 4	-	170	-	-	24	84	218	60	74	1,466	268	228	2,592
12 NEVADA 1	252	1,351	10,426	3,378	369	217	348	285	473	1,848	460	544	19,951
13 KCI 1	-	60	-	-	-	12	35	4	8	13	-	-	132
14 KCI 2	-	24	-	-	-	8	50	5	31	31	-	-	149
AQP PKR 1	-	-	-	-	-	61,584	78,462	68,323	63,830	-	-	-	272,199
AQP PKR 2	-	-	-	-	-	58,832	76,014	73,759	62,826	-	-	-	271,431
SEC PKNG	2,719	11,528	50,531	720	2,110	665	1,707	916	1,118	2,533	833	1,532	76,912
EMER2	523	2,299	18,298	2	4	53	191	3	95	412	8	137	22,025
MKT BUY4	26,928	45,580	198,300	92,753	52,340	29,322	47,207	38,682	38,270	60,718	47,232	42,289	719,621
TOTAL	462,516	404,325	415,600	385,829	412,258	526,154	613,218	583,750	465,330	397,528	414,373	472,945	5,553,826

RealTime Output - 120 % of Nymex Gas Price

Average Cost (\$/MWH)

<u>Source</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>TOTAL</u>
01 SIBLEY 1	13.184	13.165	13.110	13.236	13.303	13.334	13.421	13.459	13.446	13.333	13.380	13.385	13.307
02 SIBLEY 2	13.940	13.892	13.649	13.834	13.968	13.992	14.072	14.136	14.093	14.031	14.133	14.097	13.968
03 SIBLEY 3	10.960	10.974	-	10.979	10.929	11.015	11.160	11.161	11.221	11.122	11.074	11.005	11.051
04 JEFFREY 1	12.151	12.166	13.591	12.210	13.229	12.459	12.416	12.549	12.408	13.744	13.822	12.695	12.605
05 JEFFREY 2	12.188	12.109	13.525	12.197	13.154	12.396	12.575	12.494	12.401	13.693	-	12.246	12.575
06 JEFFREY 3	12.168	12.190	13.515	13.244	11.421	12.500	12.537	12.569	12.472	13.791	13.752	12.657	12.797
07 R. GREEN 3	-	70.212	94.320	-	74.267	64.240	65.232	63.724	60.182	63.670	-	-	63.658
08 GREENWOOD 1	-	-	-	70.126	63.363	62.877	62.660	62.437	59.713	61.877	61.347	69.997	62.918
09 GREENWOOD 2	72.435	69.508	80.857	83.715	64.150	63.121	62.850	63.778	59.979	61.677	61.596	69.939	62.978
10 GREENWOOD 3	-	70.429	83.270	74.086	64.619	62.874	62.930	63.125	60.403	61.928	61.536	69.602	62.733
11 GREENWOOD 4	-	88.299	-	-	89.379	85.107	78.117	78.496	81.505	85.852	86.932	109.427	87.257
12 NEVADA 1	63.470	62.589	63.515	66.029	64.051	63.586	63.303	62.857	63.476	62.846	62.551	62.548	63.764
13 KCI 1	-	87.076	-	-	-	81.212	83.145	83.918	97.313	101.337	-	-	86.356
14 KCI 2	-	91.771	-	-	-	82.741	89.947	94.608	90.478	100.124	-	-	92.389
AQP PKR 1	-	-	-	-	-	56.524	55.668	56.063	53.433	-	-	-	55.437
AQP PKR 2	-	-	-	-	-	56.545	55.767	56.158	53.541	-	-	-	55.527
SEC PKNG	77.458	75.040	71.947	68.773	67.539	67.383	67.435	67.383	64.848	67.461	66.902	71.036	71.936
EMER2	100.000	100.461	100.000	100.000	100.000	126.540	174.001	102.152	109.137	100.000	100.000	100.000	100.777
MKT BUY4	40.047	38.268	48.198	48.477	49.216	42.837	47.902	46.105	54.482	54.307	54.669	38.988	47.757
TOTAL	13.781	17.325	42.241	21.345	16.861	23.993	26.206	25.176	27.359	21.019	17.280	14.739	22.458

RealTime Output - 80% of NYMEX Gas Price

Total Expense (\$)

Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
01 SIBLEY 1	366,954	321,029	458,590	330,236	195,201	291,007	361,326	343,978	318,592	209,410	382,941	360,526	3,939,790
02 SIBLEY 2	310,549	286,106	487,795	365,022	163,880	311,600	371,156	358,253	319,318	375,531	160,387	345,401	3,854,998
03 SIBLEY 3	2,858,523	2,055,613	-	1,450,533	2,653,936	2,420,403	2,657,916	2,631,775	1,509,820	2,343,294	2,949,647	2,903,659	26,435,119
04 JEFFREY 1	491,108	447,360	174,050	470,732	532,534	455,418	460,809	457,141	446,141	104,966	232,061	522,366	4,794,686
05 JEFFREY 2	488,002	447,853	172,974	489,178	535,449	472,091	499,979	505,736	472,623	472,412	-	360,737	4,917,034
06 JEFFREY 3	494,197	442,893	552,043	351,492	73,228	437,548	463,340	451,817	455,199	306,743	535,230	510,390	5,074,120
07 R. GREEN 3	-	19,903	1,016,281	314,359	2,601	14,428	8,277	6,713	21,181	119,037	33,489	29,003	1,585,272
08 GREENWOOD 1	-	57,235	551,465	4,108	22,312	26,664	55,494	34,805	35,201	49,888	80,287	56,530	973,989
09 GREENWOOD 2	32,734	73,019	266,449	6,528	13,933	20,244	40,901	19,493	35,360	232,751	36,274	35,079	812,765
10 GREENWOOD 3	8,344	59,128	114,106	1,016	4,207	19,688	32,016	18,023	26,317	236,584	51,190	8,872	579,491
11 GREENWOOD 4	6,325	22,302	53,749	-	1,992	6,037	13,087	3,268	2,321	84,848	19,525	6,702	220,156
12 NEVADA 1	2,680	8,890	7,817	600	152	1,695	3,114	780	2,101	26,590	-	990	55,409
13 KCI 1	577	4,472	5,855	70	123	624	1,907	530	174	5,692	302	739	21,065
14 KCI 2	356	2,805	7,313	-	-	527	2,839	471	1,084	14,884	580	229	31,088
AQP PKR 1	-	-	-	-	-	2,323,250	2,946,117	2,572,885	2,368,586	-	-	-	10,210,838
AQP PKR 2	-	-	-	-	-	2,234,637	2,860,755	2,787,626	2,538,539	-	-	-	10,421,557
SEC PKNG	127,676	553,142	2,005,135	25,981	103,047	146,257	324,706	241,133	41,357	96,654	24,140	67,499	3,756,727
EMER2	640	13,666	11,670	40	50	5,170	30,697	310	5,491	25,930	50	620	94,334
MKT BUY4	813,025	1,337,578	6,597,108	3,063,066	1,814,639	820,350	1,396,715	1,106,663	1,308,940	2,343,381	1,832,676	1,220,602	23,654,743
TOTAL	6,001,690	6,152,994	12,482,400	6,872,961	6,117,284	10,007,638	12,531,151	11,541,400	9,908,345	7,048,595	6,338,779	6,429,944	101,433,181

Generation (MWH)

Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
01 SIBLEY 1	27,844	24,378	34,869	24,969	14,673	21,822	26,919	25,565	23,672	15,691	28,628	26,937	295,967
02 SIBLEY 2	22,280	20,593	35,520	26,379	11,733	22,266	26,384	25,337	22,652	26,775	11,348	24,502	275,769
03 SIBLEY 3	260,803	187,314	-	132,121	242,843	219,524	237,947	235,576	134,368	210,707	266,368	263,855	2,391,426
04 JEFFREY 1	40,414	36,760	12,806	38,548	40,258	36,793	37,349	36,695	35,862	7,637	16,789	41,144	381,055
05 JEFFREY 2	40,038	36,968	12,790	40,070	40,705	38,197	40,019	40,715	38,084	34,499	-	29,446	391,531
06 JEFFREY 3	40,611	36,321	40,850	26,532	6,414	35,273	37,331	36,252	36,499	22,241	38,918	40,320	397,562
07 R. GREEN 3	-	397	21,389	6,737	56	335	198	155	533	2,908	826	635	34,169
08 GREENWOOD 1	-	1,128	12,243	91	535	639	1,337	841	896	1,223	1,986	1,225	22,144
09 GREENWOOD 2	648	1,492	5,892	150	332	487	980	468	899	5,739	892	747	18,726
10 GREENWOOD 3	163	1,191	2,518	21	99	466	764	432	671	5,819	1,264	180	13,588
11 GREENWOOD 4	103	382	888	-	36	110	253	62	41	1,512	354	115	3,856
12 NEVADA 1	40	139	118	8	2	25	45	11	30	369	-	14	801
13 KCI 1	9	75	97	1	2	12	35	9	3	97	5	12	357
14 KCI 2	5	45	112	-	-	9	47	8	19	229	9	4	487
AQP PKR 1	-	-	-	-	-	61,441	79,110	68,611	66,202	-	-	-	275,364
AQP PKR 2	-	-	-	-	-	59,089	76,682	74,219	70,736	-	-	-	280,726
SEC PKNG	2,431	10,870	41,061	556	2,245	3,194	7,087	5,266	938	2,108	531	1,399	77,686
EMER2	6	127	117	-	1	36	175	2	48	259	1	6	778
MKT BUY4	27,120	46,145	194,331	89,647	52,326	26,433	40,557	33,527	33,174	59,711	46,454	42,402	691,827
TOTAL	462,515	404,325	415,601	385,830	412,260	526,151	613,219	583,751	465,327	397,524	414,373	472,943	5,553,819

RealTime Output - 80% of NYMEX Gas Price

Average Cost (\$/MWH)

<u>Source</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>TOTAL</u>
01 SIBLEY 1	13.179	13.169	13.152	13.226	13.303	13.335	13.423	13.455	13.458	13.346	13.376	13.384	13.312
02 SIBLEY 2	13.939	13.894	13.733	13.838	13.967	13.994	14.067	14.140	14.097	14.025	14.134	14.097	13.979
03 SIBLEY 3	10.960	10.974	-	10.979	10.929	11.026	11.170	11.172	11.236	11.121	11.074	11.005	11.054
04 JEFFREY 1	12.152	12.170	13.591	12.212	13.228	12.378	12.338	12.458	12.441	13.744	13.823	12.696	12.583
05 JEFFREY 2	12.188	12.115	13.525	12.208	13.154	12.360	12.494	12.421	12.410	13.693	-	12.251	12.558
06 JEFFREY 3	12.169	12.194	13.514	13.248	11.418	12.405	12.412	12.463	12.472	13.792	13.753	12.658	12.763
07 R. GREEN 3	-	50.196	47.514	46.664	46.784	43.044	41.763	43.279	39.724	40.933	40.525	45.703	46.395
08 GREENWOOD 1	-	50.750	45.044	45.098	41.736	41.728	41.522	41.395	39.287	40.778	40.433	46.143	43.984
09 GREENWOOD 2	50.539	48.937	45.223	43.462	42.017	41.534	41.736	41.634	39.328	40.555	40.657	46.935	43.403
10 GREENWOOD 3	51.094	49.645	45.314	48.856	42.708	42.212	41.906	41.691	39.197	40.658	40.499	49.372	42.647
11 GREENWOOD 4	61.525	58.335	60.501	-	55.953	54.885	51.809	53.142	56.611	56.102	55.123	58.376	57.094
12 NEVADA 1	67.335	64.138	66.304	74.949	75.933	68.607	68.895	69.038	70.023	72.157	-	68.723	69.175
13 KCI 1	65.579	59.630	60.608	69.844	58.353	52.840	54.811	56.335	58.110	58.738	59.242	61.044	59.006
14 KCI 2	67.085	62.616	65.585	-	-	57.311	60.407	61.937	58.266	65.108	68.178	60.389	63.836
AQP PKR 1	-	-	-	-	-	37.813	37.241	37.500	35.778	-	-	-	37.081
AQP PKR 2	-	-	-	-	-	37.818	37.307	37.560	35.888	-	-	-	37.124
SEC PKNG	52.511	50.887	48.833	46.712	45.894	45.790	45.816	45.790	44.100	45.842	45.478	48.235	48.358
EMER2	100.000	107.608	100.000	100.000	100.000	142.043	175.313	129.046	113.694	100.000	100.000	100.000	121.252
MKT BUY4	29.979	28.987	33.948	34.168	34.679	31.035	34.439	33.008	39.457	39.245	39.452	28.786	34.192
TOTAL	12.976	15.218	30.035	17.813	14.838	19.020	20.435	19.771	21.293	17.731	15.297	13.596	18.264

**MPS Fuel Purchased Power Costs
for
1998, 1999 YTD 11/00**

	<u>Gas/Oil Fired Generation</u>			<u>Coal Fired Generation</u>			<u>Purchased Power</u>			<u>Total Energy Supply</u>		
	MWh	Fuel	\$/MWh	MWh	Fuel	\$/MWh	MWh	Energy Cost	\$/MWh	MWh	Energy Cost	\$/MWh
CY 1998	243,617	8,039,439	33.00	4,258,091	42,736,772	10.04	2,248,348	53,030,576	23.59	6,750,056	103,806,787	15.38
CY 1999	182,555	6,783,907	37.16	4,150,010	43,206,169	10.41	1,160,289	31,419,932	27.08	5,492,854	81,410,009	14.82
Jan-00	10,440	360,967	34.57	426,225	4,629,223	10.86	54,460	1,090,350	20.02	491,125	6,080,540	12.38
Feb-00	5,669	250,747	44.23	352,844	3,730,919	10.57	88,279	1,920,066	21.75	446,791	5,901,732	13.21
Mar-00	3,585	174,592	48.70	235,415	2,729,930	11.60	177,928	3,503,351	19.69	416,928	6,407,873	15.37
Apr-00	8,140	383,724	47.14	352,921	4,045,099	11.46	45,131	1,051,476	23.30	406,191	5,480,299	13.49
May-00	34,490	1,629,082	47.23	411,001	4,452,569	10.83	89,396	1,810,705	20.25	534,887	7,892,356	14.76
Jun-00	14,211	914,016	64.32	349,077	4,013,622	11.50	142,039	4,074,107	28.68	505,327	9,001,744	17.81
Jul-00	41,892	2,477,074	59.13	380,373	4,279,911	11.25	156,945	5,517,778	35.16	579,210	12,274,763	21.19
Aug-00	55,085	3,319,054	60.25	395,802	4,257,679	10.76	261,342	9,556,727	36.57	712,229	17,133,460	24.06
Sep-00	17,916	1,174,439	65.55	330,328	3,375,480	10.22	153,109	4,469,733	29.19	501,353	9,019,652	17.99
Oct-00	8,231	857,418	104.17	373,588	4,526,092	12.12	90,308	1,998,384	22.13	472,127	7,381,894	15.64
Nov-00	3,522	168,246	47.77	351,817	3,554,217	10.10	78,757	1,970,259	25.02	434,096	5,692,721	13.11
YTD 11/00	203,179	11,709,359	57.63	3,959,392	43,594,741	11.01	1,337,694	36,962,934	27.63	5,500,265	92,267,034	16.78

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI**

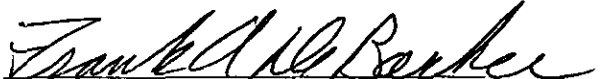
In the Matter of the Tariff filing of)
UtiliCorp United Inc. DBA as Missouri)
Public Service.)

Case No. ER-2001-294

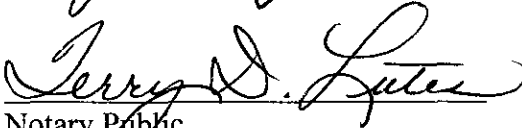
County of Jackson)
)
State of Missouri)

AFFIDAVIT OF FRANK A. DEBACKER

Frank A. DeBacker, **being first duly sworn**, deposes and says that he is the witness who sponsors the accompanying testimony entitled direct testimony; that said testimony was prepared by him and or under his direction and supervision; that if inquiries were made as to the facts in said testimony and schedules, he would respond as therein set forth; and that the aforesaid testimony and schedules are true and correct to the best of his knowledge, information, and belief.


Frank A. DeBacker

Subscribed and sworn before me this 10th day of January, 2001.


Notary Public

My Commission Expires:

