INPUT:

	SMALL CUSTOMER AUCTION			LARGE CUSTOMER AUCTION		
ENTER WINNING BID PRICE:	$ -	/ mWh	*17 month Product*	$ -	/ mWh	*17 month Product*
	$ -	/ mWh	*29 month Product*			
	$ -	/ mWh	*41 month Product*			

OUTPUT RESULTS:

RETAIL BGS RATES:

BGS-1

SUMMER -- ¢/kWh	0.0000
NONSUMMER -- ¢/kWh	
0-800	0.0000
>800	0.0000

BGS-2

	Secondary	*Primary*	*High Voltage*
SUMMER -- ¢/kWh	0.0000	0.0000	0.0000
NONSUMMER -- ¢/kWh	0.0000	0.0000	0.0000

BGS-3

	Secondary	*Primary*	*High Voltage*	*138kV & Above*
SUMMER				
ON PEAK -- ¢/kWh	0.0000	0.0000	0.0000	0.0000
OFF PEAK -- ¢/kWh	0.0000	0.0000	0.0000	0.0000
NONSUMMER				
ON PEAK -- ¢/kWh	0.0000	0.0000	0.0000	0.0000
OFF PEAK -- ¢/kWh	0.0000	0.0000	0.0000	0.0000

BGS-5

	Secondary
SUMMER -- ¢/kWh	0.0000
NONSUMMER -- ¢/kWh	0.0000

BGS-4

	Secondary	*Primary*	*High Voltage*	*138kV & Above*
SUMMER				
ON PEAK -- ¢/kWh	0.0000	0.0000	0.0000	0.0000
OFF PEAK -- ¢/kWh	0.0000	0.0000	0.0000	0.0000
NONSUMMER				
ON PEAK -- ¢/kWh	0.0000	0.0000	0.0000	0.0000
OFF PEAK -- ¢/kWh	0.0000	0.0000	0.0000	0.0000

AmerenIP
Residential Class Bid Factor Multiplier Determination

Development of BGS-1 Cost and Bid Factors for 2004/5 Filing

Table #1 **% Usage During MISO On-Peak Period** *On-Peak periods defined as the 16 hr MISO Trading period, adj for NERC holidays*

(data rounded to nearest .1%)	CILCO BGS-1				CIPS BGS-1			IP BGS-1		UE BGS-1
January	45.9%				44.7%			47.8%		43.8%
February	46.8%				44.7%			48.1%		43.3%
March	43.0%				41.6%			45.1%		47.6%
April	47.9%				47.0%			50.6%		45.8%
May	46.8%				43.2%			47.4%		41.4%
June	43.8%				47.1%			51.6%		49.5%
July	47.8%				46.3%			50.7%		46.3%
August	42.1%				47.3%			51.1%		46.6%
September	42.8%				46.1%			50.6%		47.0%
October	49.5%				47.7%			51.5%		48.0%
November	43.1%				39.8%			44.3%		41.1%
December	44.1%				44.5%			48.3%		45.0%

% usage during MISO Off-Peak period

(data rounded to nearest .1%)	CILCO BGS-1	0	0	0	CIPS BGS-1	0	0	IP BGS-1	0	UE BGS-1
January	54.1%				55.3%			52.2%		56.2%
February	53.2%				55.3%			51.9%		56.7%
March	57.0%				58.4%			54.9%		52.4%
April	52.1%				53.0%			49.4%		54.2%
May	53.2%				56.8%			52.6%		58.6%
June	56.2%				52.9%			48.4%		50.5%
July	52.2%				53.7%			49.3%		53.7%
August	57.9%				52.7%			48.9%		53.4%
September	57.2%				53.9%			49.4%		53.0%
October	50.5%				52.3%			48.5%		52.0%
November	56.9%				60.2%			55.7%		58.9%
December	55.9%				55.5%			51.7%		55.0%

Ameren
Residential Class Bid Factor Multiplier Determination

Table #2 **% Usage During Ameren On-Peak Billing Periods**

(data rounded to nearest %)	CILCO BGS-1	0	0	0	CIPS BGS-1	0	0	IP BGS-1	0	UE BGS-1
January	----				----			----		----
February	----				----			----		----
March	----				----			----		----
April	----				----			----		----
May	----				----			----		----
June	----				----			----		----
July	----				----			----		----
August	----				----			----		----
September	----				----			----		----
October	----				----			----		----
November	----				----			----		----
December	----				----			----		----

% usage during Ameren Off-Peak period

(data rounded to nearest %)	CILCO BGS-1	0	0	0	CIPS BGS-1	0	0	IP BGS-1	0	UE BGS-1
January	----				----			----		----
February	----				----			----		----
March	----				----			----		----
April	----				----			----		----
May	----				----			----		----
June	----				----			----		----
July	----				----			----		----
August	----				----			----		----
September	----				----			----		----
October	----				----			----		----
November	----				----			----		----
December	----				----			----		----

A...en
Residential Class Bid Factor Multiplier Determination

Table #3

Class Usage @ Bulk System
Sales for 2003 - in MWh

	CILCO BGS-1	0	0	0	CIPS BGS-1	0	0	IP BGS-1	0	UE BGS-1	TOTALS
January	203,515				370,093			555,209		77,147	1,205,965
February	195,242				327,831			526,385		67,494	1,116,951
March	156,402				274,992			494,831		57,123	983,348
April	136,765				240,863			372,292		46,955	796,875
May	129,492				232,692			320,541		39,018	721,744
June	167,027				224,521			365,027		51,151	807,727
July	191,251				344,519			538,466		71,661	1,145,896
August	188,185				340,703			649,473		72,359	1,250,721
September	175,275				294,094			622,002		66,313	1,157,684
October	143,470				214,880			406,535		46,203	811,088
November	136,856				222,461			334,508		45,422	739,247
December	172,563				292,623			454,631		58,996	978,814
Total	1,996,044	0	0	0	3,380,271	0	0	5,639,900	0	699,843	11,716,059
@ customer	1,892,309	0	0	0	3,129,016	0	0	5,287,971	0	651,743	10,961,039
											0.93556

Usage by season/rate blocks - @ Bulk System

	CILCO BGS-1	0	0	0	CIPS BGS-1	0	0	IP BGS-1	0	UE BGS-1	TOTALS
winter MWh =	1,274,305	0	0	0	2,176,434	0	0	3,464,932	0	438,359	7,354,031
on-peak											
off-peak											
Block 1	863,635	0	0	0	1,475,034	0	0	2,348,289	0	297,089	4,984,047
Block 2	410,670	0	0	0	701,399	0	0	1,116,644	0	141,270	2,369,984
summer MWh =	721,738	0	0	0	1,203,838	0	0	2,174,968	0	261,484	4,362,028
on-peak											11,716,059
off-peak											7,354,031

Usage by season/period - MISO periods
in MWhs

	CILCO BGS-1	0	0	0	CIPS BGS-1	0	0	IP BGS-1	0	UE BGS-1	TOTALS
Winter											
on-peak	584,255	0	0	0	961,351	0	0	1,658,761	0	195,259	3,399,627
off-peak	690,050	0	0	0	1,215,083	0	0	1,806,171	0	243,100	3,954,404
	1,274,305	0	0	0	2,176,434	0	0	3,464,932	0	438,359	7,354,031
Summer											
on-peak	318,820	0	0	0	561,992	0	0	1,108,246	0	123,385	2,112,442
off-peak	402,919	0	0	0	641,846	0	0	1,066,722	0	138,099	2,249,586
	721,738	0	0	0	1,203,838	0	0	2,174,968	0	261,484	4,362,028
Total on-peak	903,075	0	0	0	1,523,343	0	0	2,767,007	0	318,644	5,512,069
Total off-peak	1,092,969	0	0	0	1,856,928	0	0	2,872,893	0	381,199	6,203,989
	1,996,044	0	0	0	3,380,271	0	0	5,639,900	0	699,843	11,716,059

Ameren
Residential Class Bid Factor Multiplier Determination

Table #4 **Forwards Prices - Energy Only @ bulk system**
in $/MWh

	On-Peak	Off/On Pk LMP ratio	Resulting Off-Peak
January	53.24	0.557	29.64
February	53.56	0.573	30.69
March	53.23	0.559	29.73
April	51.61	0.539	27.84
May	44.29	0.532	23.54
June	51.10	0.533	27.24
July	66.21	0.614	40.63
August	67.43	0.546	36.80
September	46.94	0.584	27.41
October	41.75	0.539	22.50
November	44.62	0.606	27.05
December	45.02	0.598	26.93

Table #5 **Zone to _____ Hub Basis Differential**

	On-Peak	Off-Peak
January	100%	100%
February	100%	100%
March	100%	100%
April	100%	100%
May	100%	100%
June	100%	100%
July	100%	100%
August	100%	100%
September	100%	100%
October	100%	100%
November	100%	100%
December	100%	100%

Table #6 **Losses**

	CILCO BGS-1	0	0	0	CIPS BGS-1	0	0	IP BGS-1	0	UE BGS-1	TOTALS
Transmission Loss Factors =											
Expansion Factor =	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	
1 / Expansion Factor =	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	
											Composite
Distribution Secondary Loss Factors =	5.1970%	0.0000%	0.0000%	0.0000%	7.4330%	0.0000%	0.0000%	6.2400%	0.0000%	6.8730%	6.4443%
Expansion Factor =	1.05482	1.00000	1.00000	1.00000	1.08030	1.00000	1.00000	1.06655	1.00000	1.07380	1.06888
1 / Expansion Factor =	0.94803	1.00000	1.00000	1.00000	0.92567	1.00000	1.00000	0.93760	1.00000	0.93127	0.93556

Table #7 **Summary of Average BGS Energy Only Unit Costs @ Bulk System - MISO Time Periods**
based on Forwards prices corrected for congestion - MISO time periods - in $/MWh

	CILCO BGS-1	0	0	0	CIPS BGS-1	0	0	IP BGS-1	0	UE BGS-1
Summer - all hrs	$ 44.37	$ -	$ -	$ -	$ 45.61	$ -	$ -	$ 46.24	$ -	$ 45.43
On Peak	$ 58.51	$ -	$ -	$ -	$ 59.07	$ -	$ -	$ 58.54	$ -	$ 58.58
Off Peak	$ 33.19	$ -	$ -	$ -	$ 33.82	$ -	$ -	$ 33.46	$ -	$ 33.69
Winter - all hrs	$ 37.33	$ -	$ -	$ -	$ 37.09	$ -	$ -	$ 37.86	$ -	$ 37.24
On Peak	$ 48.84	$ -	$ -	$ -	$ 49.03	$ -	$ -	$ 48.97	$ -	$ 49.12
Off Peak	$ 27.59	$ -	$ -	$ -	$ 27.65	$ -	$ -	$ 27.66	$ -	$ 27.70
Annual	$ 39.88	$ -	$ -	$ -	$ 40.12	$ -	$ -	$ 41.09	$ -	$ 40.30
System Total	$ 40.56									

Ameren
Residential Class Bid Factor Multiplier Determination

Table #8 **Summary of Average BGS-1 Energy Only Costs @ Bulk System - MISO Time Periods**
based on Forwards prices corrected for congestion - in $1,000

	CILCO BGS-1	0	0	0	CIPS BGS-1	0	0	IP BGS-1	0	UE BGS-1	TOTALS
Summer - all hrs	$ 32,026	$ -	$ -	$ -	$ 54,902	$ -	$ -	$ 100,572	$ -	$ 11,880	$ 199,380
On Peak	$ 18,655	$ -	$ -	$ -	$ 33,196	$ -	$ -	$ 64,875	$ -	$ 7,227	$ 123,953
Off Peak	$ 13,371	$ -	$ -	$ -	$ 21,705	$ -	$ -	$ 35,697	$ -	$ 4,653	$ 75,427
	$ 32,026	$ -	$ -	$ -	$ 54,902	$ -	$ -	$ 100,572	$ -	$ 11,880	$ 199,380
Winter - all hrs	$ 47,575	$ -	$ -	$ -	$ 80,725	$ -	$ -	$ 131,192	$ -	$ 16,325	$ 275,816
On Peak	$ 28,534	$ -	$ -	$ -	$ 47,131	$ -	$ -	$ 81,235	$ -	$ 9,591	$ 166,491
Off Peak	$ 19,041	$ -	$ -	$ -	$ 33,594	$ -	$ -	$ 49,957	$ -	$ 6,734	$ 109,325
	$ 47,575	$ -	$ -	$ -	$ 80,725	$ -	$ -	$ 131,192	$ -	$ 16,325	$ 275,816
Annual	$ 79,601	$ -	$ -	$ -	$ 135,626	$ -	$ -	$ 231,764	$ -	$ 28,205	$ 475,196
Ameren BGS-1 Total	$ 475,196										

Table #9 **Summary of Average BGS-1 Energy Only Unit Costs @ customer**
based on Forwards prices corrected for congestion & losses - MISO billing time periods - om $/MWh

	BGS-1
Summer - all hrs	$ 48.86
On Peak	$ 62.72
Off Peak	$ 35.84
Winter - all hrs	$ 40.09
On Peak	$ 52.35
Off Peak	29.55
Annual Average	$ 43.35

Ameren
Residential Class Bid Factor Multiplier Determination

Table #10 **Generation & Transmission Obligations and Costs and Other Adjustments**
costs are PJM market estimates

Avg of 4 Summer CPs	CILCO BGS-1	CIPS BGS-1	IP BGS-1	UE BGS-1							TOTALS
Gen Obl - MW	545.8	722.5	1,329.4	164.8							2,762.5
Trans Obl - MW											0.0

# of Months and Days used in this analysis

# of summer days =	122	# of summer months =	4	
# of winter days =	243	# of winter months =	8	
		total # months =	12	

Transmission Cost	year round =	$ -	per MW-yr	
Generation Capacity cost	summer =	$ 44.00	$/MW/day	
	winter =	$ 7.00	$/MW/day	

Resulting average generation capacity cost =
annual >> $ 19.37 per MW/yr

Rate Blocking per Ameren Tariffs

	BGS-1
% usage in Summer Blocks	
Block 1	0.0%
Block 2	0.0%
Required summer inversion =	0.0000
% usage in Winter Blocks	
Block 1	67.8%
Block 2	32.2%
Required winter inversion =	0.4500

Table #11 **Ancillary Services**

forecasted overall annual average	$ 2.00	per MWh @	bulk system
per MWh @ customer	$ 2.14		

Table #12 **Summary of Obligation Costs Expressed as $/MWh @ customer**

	BGS-1
Transmission Obl - all months	$ -
Generation Obl -	$ 1.78
recovery per summer MWh On Peak	$ 3.63
recovery per winter MWh On Peak	$ 0.68

Table #13 **Summary of BGS-1 Unit Costs @ customer**
Includes Energy, Generation Obligations, and Ancillary Services
in $/MWh

		BGS-1
Summer - all hrs	$	54.63
On Peak	$	68.49
Off Peak	$	41.61
Block 1		
Block 2		
Winter - all hrs	$	42.91
On Peak	$	55.17
Off Peak	$	32.37
Block 1	$	48.15
Block 2	$	31.88
Annual -all hrs	$	47.27

BGS-1 Total Cost in $1000 =	$ 518,156		
Residential All-In Average cost @ customer =	$	47.27	per MWh
Residential All-In Average costs @ bulk system =	$	44.23	per MWh

AmerenCIPS
Class Bid Factor Multiplier Determination

Development of BGS-2 Cost and Bid Factors for 2004/5 Filing
Adjusted to Billing Time Periods

Table #1 **% Usage During MISO On-Peak Period** *On-Peak periods defined as the 16 hr MISO Trading period, adj for NERC holidays*

(data rounded to nearest .1%)	CILCO BGS-2s	CILCO BGS-2p	CIPS BGS-2s	CIPS BGS-2p		IP BGS-2 s	IP BGS-2 p	IP BGS-2 hv		UE BGS-2s	
January	46.3%	45.2%	48.8%	47.7%		59.0%	59.0%	59.0%		49.5%	
February	49.1%	48.0%	50.6%	49.5%		58.8%	58.8%	58.8%		49.7%	
March	50.6%	49.5%	52.7%	51.6%		58.1%	58.1%	58.1%		54.3%	
April	48.0%	46.9%	50.3%	49.2%		64.3%	64.3%	64.3%		54.9%	
May	51.0%	49.9%	56.3%	55.2%		62.2%	62.2%	62.2%		49.0%	
June	51.2%	50.1%	56.1%	55.0%		61.5%	61.5%	61.5%		55.0%	
July	46.3%	45.2%	52.8%	51.7%		60.5%	60.5%	60.5%		50.9%	
August	48.4%	47.3%	57.1%	56.0%		61.0%	61.0%	61.0%		49.9%	
September	48.3%	47.2%	52.0%	50.9%		64.4%	64.4%	64.4%		51.6%	
October	50.5%	49.4%	53.9%	52.8%		63.5%	63.5%	63.5%		54.6%	
November	48.4%	47.3%	48.2%	47.1%		55.1%	55.1%	55.1%		48.2%	
December	43.7%	42.6%	45.1%	44.0%		59.0%	59.0%	59.0%		50.6%	

% usage during MISO Off-Peak period

(data rounded to nearest .1%)	CILCO BGS-2s	CILCO BGS-2p	CIPS BGS-2s	CIPS BGS-2p	0	IP BGS-2 s	IP BGS-2 p	IP BGS-2 hv	0	UE BGS-2s	0
January	53.7%	54.8%	51.2%	52.3%		41.0%	41.0%	41.0%		50.5%	
February	50.9%	52.0%	49.4%	50.5%		41.2%	41.2%	41.2%		50.3%	
March	49.4%	50.5%	47.3%	48.4%		41.9%	41.9%	41.9%		45.7%	
April	52.0%	53.1%	49.7%	50.8%		35.7%	35.7%	35.7%		45.1%	
May	49.0%	50.1%	43.7%	44.8%		37.8%	37.8%	37.8%		51.0%	
June	48.8%	49.9%	43.9%	45.0%		38.5%	38.5%	38.5%		45.0%	
July	53.7%	54.8%	47.2%	48.3%		39.5%	39.5%	39.5%		49.1%	
August	51.6%	52.7%	42.9%	44.0%		39.0%	39.0%	39.0%		50.1%	
September	51.7%	52.8%	48.0%	49.1%		35.6%	35.6%	35.6%		48.4%	
October	49.5%	50.6%	46.1%	47.2%		36.5%	36.5%	36.5%		45.4%	
November	51.6%	52.7%	51.8%	52.9%		44.9%	44.9%	44.9%		51.8%	
December	56.3%	57.4%	54.9%	56.0%		41.0%	41.0%	41.0%		49.4%	

Ameren
Class Bid Factor Multiplier Determination

Table #2 **% Usage During Ameren On-Peak Billing Period**

(data rounded to nearest %)	CILCO BGS-2s	CILCO BGS-2p	CIPS BGS-2s	CIPS BGS-2p	0	IP BGS-2 s	IP BGS-2 p	IP BGS-2 hv	0	UE BGS-2s	0
January	----	----	----	----		----	----	----	----	----	
February	----	----	----	----		----	----	----	----	----	
March	----	----	----	----		----	----	----	----	----	
April	----	----	----	----		----	----	----	----	----	
May	----	----	----	----		----	----	----	----	----	
June	----	----	----	----		----	----	----	----	----	
July	----	----	----	----		----	----	----	----	----	
August	----	----	----	----		----	----	----	----	----	
September	----	----	----	----		----	----	----	----	----	
October	----	----	----	----		----	----	----	----	----	
November	----	----	----	----		----	----	----	----	----	
December	----	----	----	----		----	----	----	----	----	

% usage during Off-Peak period

(data rounded to nearest %)	CILCO BGS-2s	CILCO BGS-2p	CIPS BGS-2s	CIPS BGS-2p	0	IP BGS-2 s	IP BGS-2 p	IP BGS-2 hv	0	UE BGS-2s	0
January	----	----	----	----		----	----	----	----	----	
February	----	----	----	----		----	----	----	----	----	
March	----	----	----	----		----	----	----	----	----	
April	----	----	----	----		----	----	----	----	----	
May	----	----	----	----		----	----	----	----	----	
June	----	----	----	----		----	----	----	----	----	
July	----	----	----	----		----	----	----	----	----	
August	----	----	----	----		----	----	----	----	----	
September	----	----	----	----		----	----	----	----	----	
October	----	----	----	----		----	----	----	----	----	
November	----	----	----	----		----	----	----	----	----	
December	----	----	----	----		----	----	----	----	----	

Ameren
Class Bid Factor Multiplier Determination

Table #3 **Class Usage @ Bulk System**
Sales for 2003 - in MWh

	CILCO BGS-2s	CILCO BGS-2p	CIPS BGS-2s	CIPS BGS-2p	0	IP BGS-2 s	IP BGS-2 p	IP BGS-2 hv	0	UE BGS-2s	0	TOTALS
January	103,907	1,559	103,053	2,497		245,640	2,476	419		30,356		489,909
February	101,489	1,523	99,779	2,684		245,630	2,372	363		33,572		487,411
March	94,950	1,425	89,426	2,441		230,155	2,457	288		23,822		444,964
April	93,575	1,404	79,120	2,146		207,074	1,569	189		20,526		405,602
May	93,743	1,407	80,663	2,381		216,052	1,343	359		22,842		418,788
June	103,852	1,558	91,614	2,465		219,832	1,618	283		29,064		450,286
July	108,550	1,629	94,331	2,608		259,256	1,471	281		32,421		500,546
August	104,457	1,567	98,146	2,492		268,000	1,701	400		29,367		506,130
September	112,196	1,683	98,132	2,489		260,496	1,453	431		22,911		499,791
October	106,657	1,600	94,228	2,831		218,384	1,241	368		22,356		447,664
November	100,591	1,509	97,186	2,848		202,975	1,313	407		22,775		429,604
December	99,708	1,496	101,708	2,873		235,969	1,978	313		26,332		470,377
Total	1,223,674	18,361	1,127,386	30,754	0	2,809,464	20,991	4,099	0	316,343	0	5,551,073
@ customer	1,160,080	17,923	1,043,588	29,812	0	2,634,153	20,085	4,031	0	294,601	0	5,204,272
												0.9375255

Usage by season/rate blocks - @ transmission/bulk

	CILCO BGS-2s	CILCO BGS-2p	CIPS BGS-2s	CIPS BGS-2p	0	IP BGS-2 s	IP BGS-2 p	IP BGS-2 hv	0	UE BGS-2s	0	TOTALS
winter MWh =	794,620	11,923	745,163	20,700	0	1,801,880	14,748	2,705	0	202,581	0	3,594,320
on-peak												
off-peak												
Block 1	0	0	0	0	0	0	0	0	0	0	0	0
Block 2	0	0	0	0	0	0	0	0	0	0	0	0
summer MWh =	429,054	6,438	382,223	10,054	0	1,007,584	6,243	1,395	0	113,762	0	1,956,753
on-peak												
off-peak												5,551,073
												0

Usage by season/period - MISO periods
in MWhs

	CILCO BGS-2s	CILCO BGS-2p	CIPS BGS-2s	CIPS BGS-2p	0	IP BGS-2 s	IP BGS-2 p	IP BGS-2 hv	0	UE BGS-2s	0	TOTALS
Winter												
on-peak	384,830	5,643	376,653	10,250	0	1,080,018	8,803	1,614	0	103,616	0	1,971,427
off-peak	409,790	6,280	368,510	10,450	0	721,861	5,945	1,091	0	98,965	0	1,622,892
	794,620	11,923	745,163	20,700	0	1,801,880	14,748	2,705	0	202,581	0	3,594,320
Summer												
on-peak	208,178	3,053	208,338	5,368	0	623,196	3,858	865	0	58,963	0	1,111,820
off-peak	220,876	3,385	173,885	4,686	0	384,388	2,385	529	0	54,799	0	844,933
	429,054	6,438	382,223	10,054	0	1,007,584	6,243	1,395	0	113,762	0	1,956,753
Total on-peak	593,008	8,696	584,991	15,618	0	1,703,214	12,661	2,479	0	162,579	0	3,083,248
Total off-peak	630,666	9,665	542,395	15,136	0	1,106,249	8,330	1,620	0	153,764	0	2,467,825
	1,223,674	18,361	1,127,386	30,754	0	2,809,464	20,991	4,099	0	316,343	0	5,551,073

Ameren
Class Bid Factor Multiplier Determination

Table #4 **Forwards Prices - Energy Only @ bulk system**
in $/MWh

	On-Peak	Off/On Pk LMP ratio	Resulting Off-Peak
January	53.24		29.64
February	53.56		30.69
March	53.23		29.73
April	51.61		27.84
May	44.29		23.54
June	51.10		27.24
July	66.21		40.63
August	67.43		36.80
September	46.94		27.41
October	41.75		22.50
November	44.62		27.05
December	45.02		26.93

Table #5 **Zone to _____ Basis Differential**

	On-Peak	Off-Peak
January	100%	100%
February	100%	100%
March	100%	100%
April	100%	100%
May	100%	100%
June	100%	100%
July	100%	100%
August	100%	100%
September	100%	100%
October	100%	100%
November	100%	100%
December	100%	100%

Table #6 **Losses**

	CILCO BGS-2s	CILCO BGS-2p	CIPS BGS-2s	CIPS BGS-2p	0	IP BGS-2 s	IP BGS-2 p	IP BGS-2 hv	0	UE BGS-2s	0	TOTALS
Transmission Loss Factors =												
Expansion Factor =	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	
1 / Expansion Factor =	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	
												Composite
Distribution Secondary Loss Factors =	5.1970%	2.3886%	7.4330%	3.0632%		6.2400%	4.3163%	1.6667%	0.0000%	6.8730%	3.6516%	6.2475%
Expansion Factor =	1.05482	1.02447	1.08030	1.03160	1.00000	1.06655	1.04511	1.01695	1.00000	1.07380	1.03790	1.06664
1 / Expansion Factor =	0.94803	0.97611	0.92567	0.96937	1.00000	0.93760	0.95684	0.98333	1.00000	0.93127	0.96348	0.9375255
												0.9375255
												0.0624745

Ameren
Class Bid Factor Multiplier Determination

Table #7 **Summary of Average BGS-2 Energy Only Unit Costs @ Bulk System - MISO Time Periods**
based on Forwards prices corrected for congestion - MISO time periods
in $/MWh

	CILCO BGS-2s	CILCO BGS-2p	CIPS BGS-2s	CIPS BGS-2p	0	IP BGS-2 s	IP BGS-2 p	IP BGS-2 hv	0	UE BGS-2s	0
Summer - all hrs	$ 45.03	$ 44.76	$ 46.69	$ 46.49	$ -	$ 48.68	$ 48.51	$ 48.06	$ -	$ 46.60	$ -
MISO on pk	$ 57.63	$ 57.63	$ 58.09	$ 58.16	$ -	$ 58.07	$ 57.97	$ 57.33	$ -	$ 58.55	$ -
MISO off pk	$ 33.15	$ 33.15	$ 33.03	$ 33.12	$ -	$ 33.45	$ 33.20	$ 32.91	$ -	$ 33.73	$ -
Winter - all hrs	$ 37.48	$ 37.24	$ 38.02	$ 37.61	$ -	$ 40.09	$ 40.78	$ 39.72	$ -	$ 38.43	$ -
MISO on pk	$ 48.35	$ 48.35	$ 48.41	$ 48.15	$ -	$ 48.54	$ 49.43	$ 48.12	$ -	$ 48.82	$ -
MISO off pk	$ 27.27	$ 27.26	$ 27.41	$ 27.27	$ -	$ 27.44	$ 27.96	$ 27.29	$ -	$ 27.54	$ -
Annual	$ 40.12	$ 39.88	$ 40.96	$ 40.51	$ -	$ 43.17	$ 43.07	$ 42.56	$ -	$ 41.37	$ -
System Total	$ 41.92										

Table #8 **Summary of Average BGS-2 Energy Only Costs @ Bulk System - MISO Time Periods**
based on Forwards prices corrected for congestion - in $1,000

	CILCO BGS-2s	CILCO BGS-2p	CIPS BGS-2s	CIPS BGS-2p	0	IP BGS-2 s	IP BGS-2 p	IP BGS-2 hv	0	UE BGS-2s	0	TOTALS
Summer - all hrs	$ 19,320	$ 288	$ 17,845	$ 467	$ -	$ 49,045	$ 303	$ 67	$ -	$ 5,301	$ -	$ 92,637
MISO on pk	$ 11,998	$ 176	$ 12,102	$ 312	$ -	$ 36,187	$ 224	$ 50	$ -	$ 3,453	$ -	$ 64,500
MISO off pk	$ 7,323	$ 112	$ 5,743	$ 155	$ -	$ 12,858	$ 79	$ 17	$ -	$ 1,848	$ -	$ 28,137
	$ 19,320	$ 288	$ 17,845	$ 467	$ -	$ 49,045	$ 303	$ 67	$ -	$ 5,301	$ -	$ 92,637
Winter - all hrs	$ 29,779	$ 444	$ 28,333	$ 779	$ -	$ 72,235	$ 601	$ 107	$ -	$ 7,785	$ -	$ 140,063
MISO on pk	$ 18,606	$ 273	$ 18,233	$ 494	$ -	$ 52,425	$ 435	$ 78	$ -	$ 5,059	$ -	$ 95,601
MISO off pk	$ 11,173	$ 171	$ 10,100	$ 285	$ -	$ 19,811	$ 166	$ 30	$ -	$ 2,726	$ -	$ 44,462
	$ 29,779	$ 444	$ 28,333	$ 779	$ -	$ 72,235	$ 601	$ 107	$ -	$ 7,785	$ -	$ 140,063
Annual	$ 49,099	$ 732	$ 46,178	$ 1,246	$ -	$ 121,281	$ 904	$ 174	$ -	$ 13,086	$ -	$ 232,700
Ameren BGS-2 Total	$ 232,700											

Table #9 **Summary of Average BGS-2 Energy Only Unit Costs @ customer**
based on Forwards prices corrected for congestion & losses - MISO billing time periods - in $/mWh

	BGS-2 secondary	BGS-2 primary	BGS-2 high voltage
Summer - all hrs	$ 50.52	$ 48.94	$ 48.14
On Peak	$ 61.91	$ 59.97	$ 59.00
Off Peak	$ 35.54	$ 34.42	$ 33.87
Winter - all hrs	$ 41.58	$ 40.28	$ 39.63
On Peak	$ 51.75	$ 50.13	$ 49.32
Off Peak	29.24	28.32	27.86
Annual Average	$ 44.73	$ 43.33	$ 42.63

Ameren
Class Bid Factor Multiplier Determination

Table #10 **Generation & Transmission Obligations and Costs and Other Adjustments**

Avg of 4 Summer CPs -- in MW

	CILCO BGS-2s	CILCO BGS-2p	CIPS BGS-2s	CIPS BGS-2p		IP BGS-2 s	IP BGS-2 p	IP BGS-2 hv		UE BGS-2s	0	TOTALS
Gen Obl - MW	434.3	6.4	218.5	5.7		489.3	3.5	0.5		62.3		1,220.6
Trans Obl - MW												0.0

# of Months and Days used in this analysis

	# of summer days =	122	# of summer months =	4	
	# of winter days =	243	# of winter months =	8	
			total # months =	12	

Transmission Cost	year round =	$	-	per MW-yr
Generation Capacity cost	summer =	$	44.00	$/MW/day
	winter =	$	7.00	$/MW/day

Resulting average generation capacity cost =
annual >> $ 19.37 per MW/yr

Rate Blocking per Ameren Tariffs

	BGS-2 secondary	BGS-2 primary	BGS-2 high voltage
% usage in Summer Blocks			
Block 1	0.0%	0.0%	0.0%
Block 2	0.0%	0.0%	0.0%
Required summer inversion =	0.0000	1.0000	1.0000
% usage in Winter Blocks			
Block 1	0.0%	0.0%	0.0%
Block 2	0.0%	0.0%	0.0%
Required winter inversion =	0.0000	0.0000	0.0000

Table #11 **Ancillary Services**

forecasted overall annual average	$	2.00	per MWh @	bulk system		
per MWh @ customer	$	2.13	$	2.07	$	2.03

Ameren
Class Bid Factor Multiplier Determination

Table #12 **Summary of Obligation Costs Expressed as $/MWh @ customer**

	BGS-2 secondary	BGS-2 primary	BGS-2 high voltage
Transmission Obl - all months	$ -	$ -	$ -
Generation Obl -	$ 1.66	$ 1.61	$ 1.58
recovery per summer MWh	$ 3.57	$ 3.46	$ 3.41
recovery per winter MWh	$ 0.62	$ 0.60	$ 0.59

Table #13 **Summary of BGS-2 Unit Costs @ customer**

Includes Energy, Generation Obligations, and Ancillary Services - in $/mWh

	BGS-2 secondary	BGS-2 primary	BGS-2 high voltage
Summer - all hrs	$ 56.23	$ 54.47	$ 53.58
On Peak	$ 67.61	$ 65.50	$ 64.44
Off Peak	$ 41.24	$ 39.95	$ 39.30
Block 1			
Block 2			
Winter - all hrs	$ 44.33	$ 42.95	$ 42.25
On Peak	$ 54.50	$ 52.79	$ 51.94
Off Peak	$ 31.99	$ 30.99	$ 30.48
Block 1			
Block 2			
Annual -all hrs	$ 48.53	$ 47.01	$ 46.24

BGS-2 Total Cost in $1000 =	$ 252,430		
BGS-2 All-In Average cost @ customer =		$ 48.50	per MWh
BGS-2 All-In Average costs @ bulk system =		$ 45.47	per MWh

Development of BGS-3 Cost and Bid Factors for 2004/5 Filing

Adjusted to Billing Time Periods

Table #1 **% Usage During MISO On-Peak Period**

On-Peak periods defined as the 16 hr MISO Trading period, adj for NERC holidays

(data rounded to nearest .1%)	CILCO BGS-3 s	CILCO BGS-3 p	CILCO BGS-3 hv	CILCO BGS-3 t	CIPS BGS-3 s	CIPS BGS-3 p	CIPS BGS-3 hv	CIPS BGS-3 t	IP BGS-3 s	IP BGS-3 p	IP BGS-3 hv		UE BGS-3 s	UE BGS-3 p	UE BGS-3 hv	UE BGS-3 t
January	50.2%	47.8%	50.7%		48.4%	47.3%	46.5%	45.2%	54.2%	54.2%	54.2%		46.3%	45.2%	44.2%	
February	51.5%	50.0%	52.0%		49.5%	48.4%	46.7%	46.3%	54.1%	54.1%	54.1%		46.6%	45.5%	44.0%	
March	49.6%	47.1%	50.1%		51.6%	50.5%	46.2%	48.4%	52.7%	52.7%	52.7%		50.0%	49.5%	49.2%	
April	53.9%	52.3%	54.4%		48.0%	46.9%	46.5%	44.8%	57.4%	57.4%	57.4%		50.7%	49.2%	53.1%	
May	52.8%	51.5%	53.3%		52.8%	51.7%	44.8%	49.6%	54.8%	54.8%	54.8%		44.8%	44.1%	50.2%	
June	49.6%	48.5%	50.1%		51.7%	50.6%	46.5%	48.5%	55.4%	55.4%	55.4%		51.3%	50.0%	57.9%	
July	51.1%	50.6%	51.6%		48.5%	47.4%	46.0%	45.3%	55.3%	55.3%	55.3%		49.2%	46.6%	56.9%	
August	49.4%	46.4%	49.9%		52.7%	51.6%	45.1%	49.5%	53.9%	53.9%	53.9%		47.6%	46.0%	56.4%	
September	50.7%	50.2%	51.2%		49.5%	48.4%	45.8%	46.3%	55.0%	55.0%	55.0%		49.1%	47.4%	59.1%	
October	53.7%	52.1%	54.2%		50.7%	49.6%	47.8%	47.5%	58.5%	58.5%	58.5%		51.6%	49.7%	59.6%	
November	47.9%	44.5%	48.4%		51.3%	50.2%	43.5%	48.1%	50.7%	50.7%	50.7%		44.2%	43.4%	48.6%	
December	47.6%	44.1%	48.1%		46.0%	44.9%	45.5%	42.8%	54.2%	54.2%	54.2%		46.0%	47.3%	48.6%	

% usage during MISO Off-Peak period

(data rounded to nearest .1%)	CILCO BGS-3 s	CILCO BGS-3 p	CILCO BGS-3 hv	CILCO BGS-3 t	CIPS BGS-3 s	CIPS BGS-3 p	CIPS BGS-3 hv	CIPS BGS-3 t	IP BGS-3 s	IP BGS-3 p	IP BGS-3 hv	0	UE BGS-3 s	UE BGS-3 p	UE BGS-3 hv	UE BGS-3 t
January	49.9%	52.2%	49.4%		51.6%	52.7%	53.5%	54.8%	45.8%	45.8%	45.8%		53.7%	54.8%	55.8%	
February	48.5%	50.0%	48.0%		50.5%	51.6%	53.3%	53.7%	45.9%	45.9%	45.9%		53.4%	54.5%	56.0%	
March	50.4%	52.9%	49.9%		48.4%	49.5%	53.8%	51.6%	47.3%	47.3%	47.3%		50.0%	50.5%	50.8%	
April	46.1%	47.7%	45.6%		52.0%	53.1%	53.5%	55.2%	42.6%	42.6%	42.6%		49.3%	50.8%	46.9%	
May	47.3%	48.5%	46.8%		47.2%	48.3%	55.2%	50.4%	45.2%	45.2%	45.2%		55.2%	55.9%	49.8%	
June	50.5%	51.5%	50.0%		48.3%	49.4%	53.5%	51.5%	44.6%	44.6%	44.6%		48.7%	50.0%	42.1%	
July	48.9%	49.4%	48.4%		51.5%	52.6%	54.0%	54.7%	44.7%	44.7%	44.7%		50.8%	53.4%	43.1%	
August	50.7%	53.6%	50.2%		47.3%	48.4%	54.9%	50.5%	46.1%	46.1%	46.1%		52.4%	54.0%	43.6%	
September	49.4%	49.8%	48.9%		50.5%	51.6%	54.2%	53.7%	45.0%	45.0%	45.0%		50.9%	52.6%	40.9%	
October	46.4%	47.9%	45.9%		49.3%	50.4%	52.2%	52.5%	41.5%	41.5%	41.5%		48.4%	50.3%	40.4%	
November	52.2%	55.5%	51.7%		48.7%	49.8%	56.5%	51.9%	49.3%	49.3%	49.3%		55.8%	56.6%	51.4%	
December	52.4%	55.9%	51.9%		54.0%	55.1%	54.5%	57.2%	45.8%	45.8%	45.8%		52.0%	52.7%	51.4%	

Table #2 **% Usage During Ameren On-Peak Billing Period**

(data rounded to nearest %)	CILCO BGS-3 s	CILCO BGS-3 p	CILCO BGS-3 hv	CILCO BGS-3 t	CIPS BGS-3 s	CIPS BGS-3 p	CIPS BGS-3 hv	CIPS BGS-3 t	IP BGS-3 s	IP BGS-3 p	IP BGS-3 hv	0	UE BGS-3 s	UE BGS-3 p	UE BGS-3 hv	UE BGS-3 t
January	----	----	----		----	----	----	----	----	----	----		----	----	----	
February	----	----	----		----	----	----	----	----	----	----		----	----	----	
March	----	----	----		----	----	----	----	----	----	----		----	----	----	
April	----	----	----		----	----	----	----	----	----	----		----	----	----	
May	----	----	----		----	----	----	----	----	----	----		----	----	----	
June	----	----	----		----	----	----	----	----	----	----		----	----	----	
July	----	----	----		----	----	----	----	----	----	----		----	----	----	
August	----	----	----		----	----	----	----	----	----	----		----	----	----	
September	----	----	----		----	----	----	----	----	----	----		----	----	----	
October	----	----	----		----	----	----	----	----	----	----		----	----	----	
November	----	----	----		----	----	----	----	----	----	----		----	----	----	
December	----	----	----		----	----	----	----	----	----	----		----	----	----	

% usage during Ameren Off-Peak period

(data rounded to nearest %)	CILCO BGS-3 s	CILCO BGS-3 p	CILCO BGS-3 hv	CILCO BGS-3 t	CIPS BGS-3 s	CIPS BGS-3 p	CIPS BGS-3 hv	CIPS BGS-3 t	IP BGS-3 s	IP BGS-3 p	IP BGS-3 hv	0	UE BGS-3 s	UE BGS-3 p	UE BGS-3 hv	UE BGS-3 t
January	----	----	----		----	----	----	----	----	----	----		----	----	----	
February	----	----	----		----	----	----	----	----	----	----		----	----	----	
March	----	----	----		----	----	----	----	----	----	----		----	----	----	
April	----	----	----		----	----	----	----	----	----	----		----	----	----	
May	----	----	----		----	----	----	----	----	----	----		----	----	----	
June	----	----	----		----	----	----	----	----	----	----		----	----	----	
July	----	----	----		----	----	----	----	----	----	----		----	----	----	
August	----	----	----		----	----	----	----	----	----	----		----	----	----	
September	----	----	----		----	----	----	----	----	----	----		----	----	----	
October	----	----	----		----	----	----	----	----	----	----		----	----	----	
November	----	----	----		----	----	----	----	----	----	----		----	----	----	
December	----	----	----		----	----	----	----	----	----	----		----	----	----	

Table #3 **Class Usage @ Bulk System**

2003 Sales - in MWh

	CILCO BGS-3 s	CILCO BGS-3 p	CILCO BGS-3 hv	CILCO BGS-3 t	CIPS BGS-3 s	CIPS BGS-3 p	CIPS BGS-3 hv	CIPS BGS-3 t	IP BGS-3 s	IP BGS-3 p	IP BGS-3 hv	0	UE BGS-3 s	UE BGS-3 p	UE BGS-3 hv	UE BGS-3 t	TOTALS
January	36,630	3,543	140		89,042	66,028	6,270	745	137,687	17,973	6,171		12,957	20,789	493		398,468
February	35,778	3,461	137		95,364	72,240	6,832	727	147,189	18,688	5,858		9,800	22,715	540		419,328
March	33,472	3,238	128		84,288	62,647	5,892	694	134,110	18,240	5,833		13,064	14,745	457		376,808
April	32,988	3,191	126		114,405	55,363	7,720	604	124,425	16,575	5,929		11,807	16,740	422		390,295
May	33,047	3,197	126		73,823	60,482	5,562	593	125,065	15,986	5,117		13,431	16,034	404		352,868
June	36,611	3,542	140		89,612	69,265	6,589	684	118,968	15,023	5,017		15,183	16,278	417		377,328

Class Bid Factor Multiplier Determination

July	38,267	3,702	146		111,238	69,637	8,211	571	141,246	15,072	3,574		17,644	17,492	458		427,259
August	36,824	3,562	141		111,106	71,054	7,873	539	197,612	16,326	3,688		15,586	19,294	550		484,153
September	39,552	3,826	151		103,959	75,273	7,387	691	176,229	20,735	2,879		12,833	20,756	491		464,761
October	37,600	3,637	144		77,019	77,809	5,996	848	159,826	19,379	4,756		11,534	18,787	454		417,787
November	35,461	3,430	135		84,758	70,041	6,142	765	131,334	15,119	4,042		11,103	18,582	457		381,370
December	35,150	8,933	134		98,066	71,403	8,919	817	145,477	15,397	4,214		11,503	19,501	413		417,928
Total	431,379	47,263	1,647	0	1,132,681	821,242	81,393	8,278	1,739,166	204,512	57,077	0	156,444	221,713	5,556	0	4,908,353
@ customer	408,961	46,134	1,629	0	1,048,489	796,086	80,524	8,271	1,630,642	195,685	56,126	0	145,692	213,617	5,470	0	4,637,325
																	0.9447823

Usage by season/rate blocks - @ Bulk System

	CILCO BGS-3 s	CILCO BGS-3 p	CILCO BGS-3 hv	CILCO BGS-3 t	CIPS BGS-3 s	CIPS BGS-3 p	CIPS BGS-3 hv	CIPS BGS-3 t	IP BGS-3 s	IP BGS-3 p	IP BGS-3 hv	0	UE BGS-3 s	UE BGS-3 p	UE BGS-3 hv	UE BGS-3 t	TOTALS
winter MWh =	280,126	32,631	1,070	0	716,767	536,013	51,333	5,794	1,105,111	137,356	41,919	0	95,198	147,894	3,640	0	3,154,852
on-peak																	
off-peak																	
Block 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Block 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
summer MWh =	151,254	14,632	578	0	415,914	285,229	30,060	2,484	634,055	67,156	15,158	0	61,246	73,820	1,916	0	1,753,501
on-peak																	
off-peak																	4,908,353

Usage by season/period - MISO periods
in MWhs

	CILCO BGS-3 s	CILCO BGS-3 p	CILCO BGS-3 hv	CILCO BGS-3 t	CIPS BGS-3 s	CIPS BGS-3 p	CIPS BGS-3 hv	CIPS BGS-3 t	IP BGS-3 s	IP BGS-3 p	IP BGS-3 hv	0	UE BGS-3 s	UE BGS-3 p	UE BGS-3 hv	UE BGS-3 t	TOTALS
Winter																	
on-peak	142,482	15,626	549	0	355,184	260,773	23,596	2,694	603,923	75,098	22,914	0	45,481	68,964	1,800	0	1,619,085
off-peak	137,644	17,006	520	0	361,582	275,240	27,737	3,100	501,188	62,259	19,006	0	49,717	78,930	1,839	0	1,535,767
	280,126	32,631	1,070	0	716,767	536,013	51,333	5,794	1,105,111	137,356	41,919	0	95,198	147,894	3,640	0	3,154,852
Summer																	
on-peak	75,901	7,164	293	0	210,209	141,095	13,775	1,176	347,439	36,861	8,329	0	30,190	35,004	1,103	0	908,538
off-peak	75,353	7,467	285	0	205,705	144,134	16,285	1,308	286,616	30,294	6,830	0	31,056	38,816	814	0	844,963
	151,254	14,632	578	0	415,914	285,229	30,060	2,484	634,055	67,156	15,158	0	61,246	73,820	1,916	0	1,753,501
Total on-peak	218,383	22,790	842	0	565,393	401,868	37,371	3,870	951,362	111,959	31,242	0	75,671	103,967	2,903	0	2,527,622
Total off-peak	212,996	24,473	805	0	567,288	419,374	44,023	4,408	787,804	92,553	25,835	0	80,773	117,746	2,653	0	2,380,730
	431,379	47,263	1,647	0	1,132,681	821,242	81,393	8,278	1,739,166	204,512	57,077	0	156,444	221,713	5,556	0	4,908,353

A. .
Class Bid Factor Multiplier Determination

51.5%

Table #4 **Forwards Prices - Energy Only @ bulk system**
in $/MWh

	On-Peak	Off/On Pk LMP ratio	Resulting Off-Peak
January	53.24		29.64
February	53.56		30.69
March	53.23		29.73
April	51.61		27.84
May	44.29		23.54
June	51.10		27.24
July	66.21		40.63
August	67.43		36.80
September	46.94		27.41
October	41.75		22.50
November	44.62		27.05
December	45.02		26.93

Table #5 **Zone to** **Hub Basis Differential**

	On-Peak	Off-Peak
January	100%	100%
February	100%	100%
March	100%	100%
April	100%	100%
May	100%	100%
June	100%	100%
July	100%	100%
August	100%	100%
September	100%	100%
October	100%	100%
November	100%	100%
December	100%	100%

Table #6 **Losses**

	CILCO BGS-3 s	CILCO BGS-3 p	CILCO BGS-3 hv	CILCO BGS-3 t	CIPS BGS-3 s	CIPS BGS-3 p	CIPS BGS-3 hv	CIPS BGS-3 t	IP BGS-3 s	IP BGS-3 p	IP BGS-3 hv	0	UE BGS-3 s	UE BGS-3 p	UE BGS-3 hv	UE BGS-3 t	TOTALS
Transmission Loss Factors =																	
Expansion Factor =	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	
1 / Expansion Factor =	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	
																	Composite
Loss Factors Back To Bulk System =	5.1970%	2.3886%	1.0861%	0.9803%	7.4330%	3.0632%	1.0685%	0.0799%	6.2400%	4.3163%	1.6667%	0.0000%	6.8730%	3.6516%	1.5554%	0.0799%	5.5218%
Expansion Factor =	1.05482	1.02447	1.01098	1.00990	1.08030	1.03160	1.01080	1.00080	1.06655	1.04511	1.01695	1.00000	1.07380	1.03790	1.01580	1.00080	1.05844
1 / Expansion Factor =	0.94803	0.97611	0.98914	0.99020	0.92567	0.96937	0.98932	0.99920	0.93760	0.95684	0.98333	1.00000	0.93127	0.96348	0.98445	0.99920	0.9447823
																	0.9447823
																	0.0552177

Table #7 **Summary of Average BGS-3 Energy Only Unit Costs @ bulk system - MISO Time Periods**
based on Forwards prices corrected for congestion - MISO time periods - in $/MWh

	CILCO BGS-3 s	CILCO BGS-3 p	CILCO BGS-3 hv	CILCO BGS-3 t	CIPS BGS-3 s	CIPS BGS-3 p	CIPS BGS-3 hv	CIPS BGS-3 t	IP BGS-3 s	IP BGS-3 p	IP BGS-3 hv	0	UE BGS-3 s	UE BGS-3 p	UE BGS-3 hv	UE BGS-3 t
Summer - all hrs	$ 45.44	$ 45.10	$ 45.56	$ -	$ 46.12	$ 45.26	$ 44.91	$ 44.08	$ 47.01	$ 46.08	$ 46.53	$ -	$ 45.95	$ 44.70	$ 47.63	$ -
MISO on pk	$ 57.81	$ 57.70	$ 57.81	$ -	$ 58.51	$ 57.80	$ 58.43	$ 56.99	$ 58.34	$ 57.13	$ 57.79	$ -	$ 58.59	$ 57.59	$ 58.17	$ -
MISO off pk	$ 32.98	$ 33.01	$ 32.98	$ -	$ 33.46	$ 32.97	$ 33.47	$ 32.47	$ 33.28	$ 32.65	$ 32.78	$ -	$ 33.66	$ 33.08	$ 33.35	$ -
Winter - all hrs	$ 38.00	$ 37.10	$ 38.11	$ -	$ 37.98	$ 37.41	$ 37.12	$ 36.97	$ 38.75	$ 38.91	$ 39.24	$ -	$ 37.34	$ 37.23	$ 37.87	$ -
MISO on pk	$ 48.36	$ 47.85	$ 48.36	$ -	$ 48.69	$ 48.17	$ 48.62	$ 48.18	$ 48.27	$ 48.50	$ 48.96	$ -	$ 48.44	$ 48.51	$ 48.36	$ -
MISO off pk	$ 27.28	$ 27.22	$ 27.28	$ -	$ 27.46	$ 27.22	$ 27.35	$ 27.23	$ 27.28	$ 27.35	$ 27.53	$ -	$ 27.19	$ 27.37	$ 27.61	$ -
Annual	$ 40.61	$ 39.58	$ 40.72	$ -	$ 40.97	$ 40.14	$ 40.00	$ 39.10	$ 41.76	$ 41.27	$ 41.18	$ -	$ 40.71	$ 39.72	$ 41.24	$ -
System Total	$ 41.00															

Table #8 **Summary of Average BGS-3 Energy Only Costs @ Bulk System - MISO Time Periods**
based on Forwards prices corrected for congestion - in $1,000

	CILCO BGS-3 s	CILCO BGS-3 p	CILCO BGS-3 hv	CILCO BGS-3 t	CIPS BGS-3 s	CIPS BGS-3 p	CIPS BGS-3 hv	CIPS BGS-3 t	IP BGS-3 s	IP BGS-3 p	IP BGS-3 hv	0	UE BGS-3 s	UE BGS-3 p	UE BGS-3 hv	UE BGS-3 t	TOTALS
Summer - all hrs	$ 6,872	$ 660	$ 26	$ -	$ 19,181	$ 12,908	$ 1,350	$ 109	$ 29,808	$ 3,095	$ 705	$ -	$ 2,814	$ 3,300	$ 91	$ -	$ 80,921
MISO on pk	$ 4,367	$ 413	$ 17	$ -	$ 12,298	$ 8,156	$ 805	$ 67	$ 20,271	$ 2,106	$ 481	$ -	$ 1,769	$ 2,016	$ 64	$ -	$ 52,850
MISO off pk	$ 2,485	$ 246	$ 9	$ -	$ 6,883	$ 4,753	$ 545	$ 42	$ 9,538	$ 989	$ 224	$ -	$ 1,045	$ 1,284	$ 27	$ -	$ 28,070
	$ 6,872	$ 660	$ 26	$ -	$ 19,181	$ 12,908	$ 1,350	$ 109	$ 29,808	$ 3,095	$ 705	$ -	$ 2,814	$ 3,300	$ 91	$ -	$ 80,921
Winter - all hrs	$ 10,645	$ 1,211	$ 41	$ -	$ 27,222	$ 20,054	$ 1,906	$ 214	$ 42,820	$ 5,345	$ 1,645	$ -	$ 3,555	$ 5,506	$ 138	$ -	$ 120,301
MISO on pk	$ 6,891	$ 748	$ 27	$ -	$ 17,292	$ 12,562	$ 1,147	$ 130	$ 29,150	$ 3,642	$ 1,122	$ -	$ 2,203	$ 3,345	$ 87	$ -	$ 78,346
MISO off pk	$ 3,755	$ 463	$ 14	$ -	$ 9,930	$ 7,492	$ 759	$ 84	$ 13,670	$ 1,703	$ 523	$ -	$ 1,352	$ 2,161	$ 51	$ -	$ 41,955
	$ 10,645	$ 1,211	$ 41	$ -	$ 27,222	$ 20,054	$ 1,906	$ 214	$ 42,820	$ 5,345	$ 1,645	$ -	$ 3,555	$ 5,506	$ 138	$ -	$ 120,301
Annual	$ 17,518	$ 1,870	$ 67	$ -	$ 46,403	$ 32,962	$ 3,256	$ 324	$ 72,628	$ 8,440	$ 2,350	$ -	$ 6,369	$ 8,806	$ 229	$ -	$ 201,222
Ameren BGS-3 Total	$ 201,222																

Table #9 **Summary of Average BGS-3 Energy Only Unit Costs @ customer**

based on Forwards prices corrected for congestion & losses - MISO billing time periods - in $/MWh

	BGS-3 secondary	BGS-3 primary	BGS-3 high voltage	BGS-3 ≥138kV
Summer - all hrs	$ 49.37	$ 47.74	$ 46.77	$ 46.18
On Peak	$ 62.23	$ 60.18	$ 58.95	$ 58.22
Off Peak	$ 35.54	$ 34.37	$ 33.67	$ 33.25
Winter - all hrs	40.80	39.45	38.64	38.16
On Peak	$ 51.77	$ 50.06	$ 49.04	$ 48.43
Off Peak	29.23	28.26	27.68	27.34
Annual - all hrs	$ 43.86	$ 42.41	$ 41.54	$ 41.03

Table #10 **Generation & Transmission Obligations and Costs and Other Adjustments**

Avg of 4 Summer CPs -- in MW

	CILCO BGS-3 s	CILCO BGS-3 p	CILCO BGS-3 hv	CILCO BGS-3 t	CIPS BGS-3 s	CIPS BGS-3 p	CIPS BGS-3 hv	CIPS BGS-3 t	IP BGS-3 s	IP BGS-3 p	IP BGS-3 hv	0	UE BGS-3 s	UE BGS-3 p	UE BGS-3 hv	UE BGS-3 t	TOTALS
Gen Obl - MW	93.9	7.5	0.5		237.6	163.0	17.2	1.4	250.6	29.5	10.3		34.7	42.0	1.1		889.3
Trans Obl - MW																	0.0

# of Months and Days used in this analysis

# of summer days =	122	# of summer months =	4
# of winter days =	243	# of winter months =	8
		total # months =	12

Transmission Cost	year round =	$ -	per MW-yr
Generation Capacity cost	summer =	$ 44.00	$/MW/day
	winter =	$ 7.00	$/MW/day

Resulting average generation capacity cost =
annual >> $ 19.37 per MW/yr

Rate Blocking per Ameren Tariffs

	BGS-3 secondary	BGS-3 primary	BGS-3 high voltage	BGS-3 ≥138kV
% usage in Summer Blocks				
Block 1	0.0%	0.0%	0.0%	0.0%
Block 2	0.0%	0.0%	0.0%	0.0%
Required summer inversion =	0.0000	0.0000	0.0000	0.0000
% usage in Winter Blocks				
Block 1	0.0%	0.0%	0.0%	0.0%
Block 2	0.0%	0.0%	0.0%	0.0%
Required winter inversion =	0.0000	0.0000	0.0000	0.0000

Table #11 **Ancillary Services**

forecasted overall annual average	$ 2.00 per MWh @ bulk system		
per MWh @ customer	$ 2.14	$ 2.07	$ 2.03	$ 2.00

Table #12 **Summary of Obligation Costs Expressed as $/MWh @ customer**

	BGS-3 secondary	BGS-3 primary	BGS-3 high voltage	BGS-3 ≥138kV
Transmission Obl - all months	$ -	$ -	$ -	$ -
Generation Obl -	$ 1.37	$ 1.32	$ 1.30	$ 1.28
recovery per summer MWh	$ 2.91	$ 2.82	$ 2.76	$ 2.72
recovery per winter MWh	$ 0.51	$ 0.50	$ 0.49	$ 0.48

Table #13 **Summary of BGS-3 Unit Costs @ customer**

Includes Energy, Generation Obligations, and Ancillary Services - in $/MWh

	BGS-3 secondary	BGS-3 primary	BGS-3 high voltage	BGS-3 ≥138kV
Summer - all hrs	$ 54.42	$ 52.63	$ 51.55	$ 50.91
On Peak	$ 67.29	$ 65.06	$ 63.74	$ 62.94
Off Peak	$ 40.59	$ 39.25	$ 38.45	$ 37.97
Block 1				
Block 2				
Winter - all hrs	$ 43.45	$ 42.01	$ 41.16	$ 40.64
On Peak	$ 54.42	$ 52.62	$ 51.55	$ 50.91
Off Peak	$ 31.88	$ 30.83	$ 30.20	$ 29.82
Block 1				
Block 2				
Annual - all hrs	$ 47.37	$ 45.81	$ 44.87	$ 44.31

BGS-3 Total Cost in $1000 = $ 217,324

BGS-3 All-In Average cost @ customer = $ 46.86 per MWh

BGS-3 All-In Average costs @ bulk system = $ 44.28 per MWh

A. .en
Residential Class Bid Factor Multiplier Determination

Development of BGS-5 Cost and Bid Factors for 2004/5 Filing

Table #1 **% Usage During MISO On-Peak Period** *On-Peak periods defined as the 16 hr MISO Trading period, adj for NERC holidays*

(data rounded to nearest .1%)	CILCO OPL				CIPS OPL			IP OPL		UE OPL
January	26.6%				26.5%			26.6%		26.5%
February	25.3%				25.3%			25.3%		25.3%
March	21.0%				21.0%			21.0%		21.0%
April	20.8%				20.7%			21.1%		20.3%
May	11.8%				11.8%			12.2%		11.4%
June	11.4%				11.2%			11.7%		10.8%
July	9.9%				9.9%			10.3%		9.4%
August	13.4%				13.4%			13.8%		12.9%
September	17.8%				17.8%			17.8%		17.8%
October	22.1%				22.1%			22.1%		22.1%
November	26.6%				26.6%			26.6%		26.6%
December	28.8%				28.8%			28.8%		28.8%

% usage during Off-Peak period

(data rounded to nearest .1%)	CILCO OPL				CIPS OPL			IP OPL		UE OPL
January	73.4%				73.5%			73.4%		73.5%
February	74.7%				74.7%			74.7%		74.7%
March	79.0%				79.0%			79.0%		79.0%
April	79.2%				79.3%			78.9%		79.7%
May	88.2%				88.2%			87.8%		88.6%
June	88.6%				88.8%			88.3%		89.2%
July	90.1%				90.1%			89.7%		90.6%
August	86.6%				86.6%			86.2%		87.1%
September	82.2%				82.2%			82.2%		82.2%
October	77.9%				77.9%			77.9%		77.9%
November	73.4%				73.4%			73.4%		73.4%
December	71.2%				71.2%			71.2%		71.2%

A. .en
Residential Class Bid Factor Multiplier Determination

Table #2 **% Usage During Ameren On-Peak Billing Periods**

(data rounded to nearest %)	CILCO OPL				CIPS OPL			IP OPL		UE OPL
January	----	----	----	----	----	----	----	----	----	----
February	----	----	----	----	----	----	----	----	----	----
March	----	----	----	----	----	----	----	----	----	----
April	----	----	----	----	----	----	----	----	----	----
May	----	----	----	----	----	----	----	----	----	----
June	----	----	----	----	----	----	----	----	----	----
July	----	----	----	----	----	----	----	----	----	----
August	----	----	----	----	----	----	----	----	----	----
September	----	----	----	----	----	----	----	----	----	----
October	----	----	----	----	----	----	----	----	----	----
November	----	----	----	----	----	----	----	----	----	----
December	----	----	----	----	----	----	----	----	----	----

% usage during Off-Peak period

(data rounded to nearest %)	CILCO OPL				CIPS OPL			IP OPL		UE OPL
January	----	----	----	----	----	----	----	----	----	----
February	----	----	----	----	----	----	----	----	----	----
March	----	----	----	----	----	----	----	----	----	----
April	----	----	----	----	----	----	----	----	----	----
May	----	----	----	----	----	----	----	----	----	----
June	----	----	----	----	----	----	----	----	----	----
July	----	----	----	----	----	----	----	----	----	----
August	----	----	----	----	----	----	----	----	----	----
September	----	----	----	----	----	----	----	----	----	----
October	----	----	----	----	----	----	----	----	----	----
November	----	----	----	----	----	----	----	----	----	----
December	----	----	----	----	----	----	----	----	----	----

Ameren
Residential Class Bid Factor Multiplier Determination

Table #3 **Class Usage @ Bulk System**
Burning Hours

	CILCO OPL				CIPS OPL			IP OPL		UE OPL	TOTALS
January	432				444			437		441	1,753
February	367				377			372		375	1,491
March	366				376			371		374	1,487
April	318				327			322		325	1,293
May	295				303			299		301	1,199
June	270				277			273		275	1,096
July	288				296			291		294	1,169
August	315				324			319		322	1,280
September	341				350			345		348	1,383
October	389				400			394		397	1,581
November	409				421			415		418	1,663
December	441				453			447		450	1,792
Total	4,232	0	0	0	4,349	0	0	4,285	0	4,319	17,185
@ customer	4,000	0	0	0	4,000	0	0	4,000	0	4,000	16,000
											0.93104

Usage by season/rate blocks - @ Bulk System

	CILCO OPL				CIPS OPL			IP OPL		UE OPL	TOTALS
winter MWh =	3,018	0	0	0	3,102	0	0	3,056	0	3,080	12,257
on-peak											
off-peak											
Block 1	0	0	0	0	0	0	0	0	0	0	0
Block 2	0	0	0	0	0	0	0	0	0	0	0
summer MWh =	1,214	0	0	0	1,247	0	0	1,229	0	1,238	4,928
on-peak											
off-peak											17,185
											0

Usage by season/period - MISO periods
in MWhs

	CILCO OPL				CIPS OPL			IP OPL		UE OPL	TOTALS
Winter											
on-peak	707	0	0	0	726	0	0	718	0	719	2,871
off-peak	2,311	0	0	0	2,376	0	0	2,338	0	2,361	9,386
	3,018	0	0	0	3,102	0	0	3,056	0	3,080	12,257
Summer											
on-peak	162	0	0	0	166	0	0	167	0	161	656
off-peak	1,051	0	0	0	1,081	0	0	1,062	0	1,078	4,271
	1,214	0	0	0	1,247	0	0	1,229	0	1,238	4,928
Total on-peak	869	0	0	0	893	0	0	886	0	880	3,528
Total off-peak	3,363	0	0	0	3,457	0	0	3,399	0	3,438	13,657
	4,232	0	0	0	4,349	0	0	4,285	0	4,319	17,185

Ai...en
Residential Class Bid Factor Multiplier Determination

Table #4 **Forwards Prices - Energy Only @ bulk system**
in $/MWh

	On-Peak	Off/On Pk LMP ratio	Resulting Off-Peak
January	53.24		29.64
February	53.56		30.69
March	53.23		29.73
April	51.61		27.84
May	44.29		23.54
June	51.10		27.24
July	66.21		40.63
August	67.43		36.80
September	46.94		27.41
October	41.75		22.50
November	44.62		27.05
December	45.02		26.93

Table #5 **Zone to Western Hub Basis Differential**

	On-Peak	Off-Peak
January	100%	100%
February	100%	100%
March	100%	100%
April	100%	100%
May	100%	100%
June	100%	100%
July	100%	100%
August	100%	100%
September	100%	100%
October	100%	100%
November	100%	100%
December	100%	100%

Table #6 **Losses**

	CILCO OPL	0	0	0	CIPS OPL	0	0	IP OPL	0	UE OPL	TOTALS
Transmission Loss Factors =	1.3580%	1.3580%	1.3580%	1.3580%	1.3580%	1.3580%	1.3580%	1.3580%	1.3580%	1.3580%	
Expansion Factor =	1.01377	1.01377	1.01377	1.01377	1.01377	1.01377	1.01377	1.01377	1.01377	1.01377	
1 / Expansion Factor =	0.98642	0.98642	0.98642	0.98642	0.98642	0.98642	0.98642	0.98642	0.98642	0.98642	
											Composite
Distribution Secondary Loss Factors =	5.4820%	5.4820%	5.4820%	5.4820%	8.0300%	8.0300%	8.0300%	6.6550%	6.6550%	7.3800%	6.8963%
Expansion Factor =	1.05800	1.05800	1.05800	1.05800	1.08731	1.08731	1.08731	1.07129	1.07129	1.07968	1.07407
1 / Expansion Factor =	0.94518	0.94518	0.94518	0.94518	0.91970	0.91970	0.91970	0.93345	0.93345	0.92620	0.93104

Table #7 **Summary of Average BGS Energy Only Unit Costs @ Bulk System - MISO Time Periods**
based on Forwards prices corrected for congestion - MISO time periods
in $/MWh

	CILCO OPL	0	0	0	CIPS OPL	0	0	IP OPL	0	UE OPL
Summer - all hrs	$ 36.19	$ -	$ -	$ -	$ 36.19	$ -	$ -	$ 36.26	$ -	$ 36.10
On Peak	$ 56.45	$ -	$ -	$ -	$ 56.46	$ -	$ -	$ 56.57	$ -	$ 56.31
Off Peak	$ 33.07	$ -	$ -	$ -	$ 33.07	$ -	$ -	$ 33.06	$ -	$ 33.08
Winter - all hrs	$ 32.23	$ -	$ -	$ -	$ 32.22	$ -	$ -	$ 32.24	$ -	$ 32.21
On Peak	$ 48.48	$ -	$ -	$ -	$ 48.48	$ -	$ -	$ 48.48	$ -	$ 48.49
Off Peak	$ 27.25	$ -	$ -	$ -	$ 27.25	$ -	$ -	$ 27.25	$ -	$ 27.25
Annual	$ 33.36	$ -	$ -	$ -	$ 33.36	$ -	$ -	$ 33.40	$ -	$ 33.32
System Total	$ 33.36									

Ameren
Residential Class Bid Factor Multiplier Determination

Table #8 **Summary of Average BGS Energy Only Costs @ Bulk System - MISO Time Periods**
based on Forwards prices corrected for congestion
in $1000

	CILCO OPL	0	0	0	CIPS OPL	0	0	IP OPL	0	UE OPL	TOTALS
Summer - all hrs	$ 44	$ -	$ -	$ -	$ 45	$ -	$ -	$ 45	$ -	$ 45	$ 178
On Peak	$ 9	$ -	$ -	$ -	$ 9	$ -	$ -	$ 9	$ -	$ 9	$ 37
Off Peak	$ 35	$ -	$ -	$ -	$ 36	$ -	$ -	$ 35	$ -	$ 36	$ 141
	$ 44	$ -	$ -	$ -	$ 45	$ -	$ -	$ 45	$ -	$ 45	$ 178
Winter - all hrs	$ 97	$ -	$ -	$ -	$ 100	$ -	$ -	$ 99	$ -	$ 99	$ 395
On Peak	$ 34	$ -	$ -	$ -	$ 35	$ -	$ -	$ 35	$ -	$ 35	$ 139
Off Peak	$ 63	$ -	$ -	$ -	$ 65	$ -	$ -	$ 64	$ -	$ 64	$ 256
	$ 97	$ -	$ -	$ -	$ 100	$ -	$ -	$ 99	$ -	$ 99	$ 395
Annual	$ 141	$ -	$ -	$ -	$ 145	$ -	$ -	$ 143	$ -	$ 144	$ 573
Ameren Residential Total	$ 573										

Table #9 **Summary of Average BGS Energy Only Unit Costs @ customer**
based on Forwards prices corrected for congestion & losses - MISO billing time periods
in $/MWh

	BGS-5
Summer - all hrs	$ 38.86
On Peak	$ 60.63
Off Peak	$ 35.52
Winter - all hrs	$ 34.61
On Peak	$ 52.08
Off Peak	29.27
Annual Average	$ 35.83

Table #10 **Generation & Transmission Obligations and Costs and Other Adjustments**

	CILCO	CIPS	IP	UE							TOTALS
Gen Obl - MW											0.0
Trans Obl - MW											0.0

# of Months and Days used in this analysis

# of summer days =	122	# of summer months =	4	
# of winter days =	243	# of winter months =	8	
		total # months =	12	

Transmission Cost	year round =	$	-	per MW-yr
Generation Capacity cost	summer =	$	44.00	$/MW/day
	winter =	$	7.00	$/MW/day

Resulting average generation capacity cost =
annual >> $ 19.37 per MW/yr

Rate Blocking per Ameren Tariffs

	BGS-5
% usage in Summer Blocks	
Block 1	0.0%
Block 2	0.0%
Required summer inversion =	0.0000
% usage in Winter Blocks	
Block 1	0.0%
Block 2	0.0%
Required winter inversion =	0.0000

Table #11 **Ancillary Services**

forecasted overall annual average	$	2.00	per MWh @ bulk system
per MWh @ customer	$	2.15	

Table #12 **Summary of Obligation Costs Expressed as $/MWh @ customer**

		BGS-5
Transmission Obl - all months	$	-
Generation Obl -		
	$	-
recovery per summer MWh	$	-
recovery per winter MWh	$	-

Ameren
Residential Class Bid Factor Multiplier Determination

Table #13 **Summary of BGS Unit Costs @ customer**

includes Energy, Generation Obligations, and Ancillary Services
in $/MWh

		BGS-5
Summer - all hrs	$	41.01
On Peak	$	62.78
Off Peak	$	37.67
Block 1		
Block 2		
Winter - all hrs	$	36.76
On Peak	$	54.22
Off Peak	$	31.42
Block 1	$	-
Block 2	$	-
Annual -all hrs	$	37.98

BGS-5 Total Cost in $1000 =	$	608	
Lighting All-In Average cost @ customer =	$	37.98	per MWh
Lighting All-In Average costs @ bulk system =	$	35.36	per MWh

Class Bid Factor M ier Determination

Table #14 **Ratio of BGS Unit Costs @ customer to All-In Average Cost @ bulk system - rounded to 3 decimal places**

BGS-1	$	518,156
BGS-2	$	252,430
BGS-3	$	217,324
BGS-5	$	608

Grand Total Cost Small Customer Rates in $1000 = $ 988,519

All-In Average cost @ customer = $ 47.48 per MWh

All-In Average costs @ bulk system = $ 44.54 per MWh

MULTIPLICATIVE FACTORS

Includes Energy, Generation Obligations, and Ancillary Services - per MISO time periods

	BGS-1	BGS-2 secondary	BGS-2 primary	BGS-2 high voltage	BGS-5
Summer - all hrs	**1.226**	**1.262**	**1.223**	**1.203**	**0.921**
On Peak					
Off Peak					
Winter - all hrs		**0.995**	**0.964**	**0.949**	**0.825**
On Peak					
Off Peak					
All usage Multiplier	**0.963**				
Constant For Block 1 (in $/MWh)	**$ 5.245**				
Constant For Block 2 (in $/MWh)	**$ (11.030)**				
Annual - all hrs	1.061	1.089	1.055	1.038	0.853

	BGS-3 secondary	BGS-3 primary	BGS-3 high voltage	BGS-3 ≥138kV
Summer - all hrs				
On pk	**1.511**	**1.461**	**1.431**	**1.413**
Off pk	**0.911**	**0.881**	**0.863**	**0.853**
Winter - all hrs				
On pk	**1.222**	**1.181**	**1.157**	**1.143**
Off pk	**0.716**	**0.692**	**0.678**	**0.670**
Annual - including Gen Obl $	1.063	1.028	1.007	0.995

Class Bid Factor M ier Determination

Table #15 **Summary of Total BGS Costs by Season**

	BGS-1	BGS-2 secondary	BGS-2 primary	BGS-2 high voltage		BGS-3 secondary	BGS-3 primary	BGS-3 high voltage	BGS-3 ≥138kV	BGS-5
Total Costs by Rate - in $1000										
Summer	$ 222,933	$ 101,831	$ 1,198	$ 73		$ 64,222	$ 22,426	$ 2,427	$ 126	$ 188
Winter	$ 295,223	$ 147,247	$ 1,968	$ 112		$ 89,232	$ 34,678	$ 3,978	$ 235	$ 419
Total	$ 518,156	$ 249,079	$ 3,166	$ 186		$ 153,454	$ 57,103	$ 6,406	$ 362	$ 608
% of Annual Total $ by Rate										
Summer	43%	41%	38%	40%		42%	39%	38%	35%	31%
Winter	57%	59%	62%	60%		58%	61%	62%	65%	69%

Total Costs - in $1000

Summer	$ 415,425
Winter	$ 573,094
Total	$ 988,519

% of Annual Total $

Summer	42%
Winter	58%

If total $ were split on a per MWh basis (on bulk system MWhs):

Summer	$ 51.43	per MWh @ bulk system
Winter	$ 40.60	per MWh @ bulk system

Ratio to All-In Cost >>>	Summer	**1.1547**
rounded to 4 decimal places	Winter	**0.9115**

Table #16 **Spreadsheet Error Checking -** Reconciliation of Customer Revenue and Supplier Payments, based on above data only

Assumed Winning Bid Price =	$ -
Payment Ratio - Summer =	1.1547
Payment Ratio - Winter =	0.9115

	BGS-1	BGS-2 secondary	BGS-2 primary	BGS-2 high voltage		BGS-3 secondary	BGS-3 primary	BGS-3 high voltage	BGS-3 ≥138kV	BGS-5
Total Rate Revenue - in $1000										
Summer	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -
Winter	$ 0	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -
Total	$ 0	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -

	All Rates excl FP-4
Total Summer	$ -
Total Winter	$ 0
Grand Total	$ 0

	BGS-1	BGS-2 secondary	BGS-2 primary	BGS-2 high voltage	0	BGS-3 secondary	BGS-3 primary	BGS-3 high voltage	BGS-3 ≥138kV	BGS-5
Total Supplier Payment - in $1000										
Summer	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Winter	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

	All Rates excl BGS-4
Total Summer	$ -
Total Winter	$ -
Grand Total	$ -

Difference (in $1000) = $ 0

Note: Minor differences in totals are due to rounding of Bid Factors and Payment Factors
Charges to customers will be reconciled to payments to suppliers via Reconciliation Charge

Total Supplier Energy @ the Bulk System - in MWh

Summer	8,077,210
Winter	14,115,460
Total	22,192,669

Ameren
Class Rate Determination

Calculation of XXXXXXXX 200X to XXXXXXXXX 200X BGS Rates
based on results of XXXXXXXXX 200X BGS Auction

Input line #	**Payment Identifier >>**	*17 month bid*	**BGS-1,2,3,5,6** *29 month bid*	*41 month bid*	*Notes:*
1	Winning Bid - in $/MWh	$ -	$ -	$ -	winning Bid
2	# of Traunches for Bid	29	28	28	from then current Bid
3	Total # of Traunches	85	85	85	from then current Bid
	Payment Factors				
4	Summer	1.1547	1.1547	1.1547	from then current Bid Factor Spreadsheet Table #15
5	Winter	0.9115	0.9115	0.9115	from then current Bid Factor Spreadsheet Table #15
	Applicable Customer Usage @ bulk system - in MWh				
6	Summer MWh	8,077,210			from current Bid Factor Spreadsheet Table #16
7	Winter MWh	14,115,460			
	Total Payment to Suppliers - in $1000				
8	Summer	$ -	$ -	$ -	= (1) * (2)/(3) * (4) * (6)
9	Winter	$ -	$ -	$ -	= (1) * (2)/(3) * (5) * (7)
10	Total	$ -	$ -	$ -	
	Average Payment to Suppliers - in $/MWh				
11	Summer	$ -			= sum(line 8) / (6) - rounded to 2 decimal places
12	Winter	$ -			= sum(line 9) / (7) - rounded to 2 decimal places
13	Total weighted average	$ -			= sum(line 10) / [(6) + (7)] rounded to 2 decimal places
	<<< used in calculation of >>> Customer Rates				
	Reconciliation of amounts - in $1000				
14	Weighted avg * Total MWh =	$ -			= (13) * [(6)+(7)] / 1000
15	Total Payment to Suppliers =	$ -			= sum (line 10)
16	Difference =	$ -			= line (14) - line (15)

An..en
Class Rate Determination

Calculation of XXXXXXXX 200X to XXXXXXXXX 200X BGS Rates
based on results of XXXXXXXXX 200X BGS Auction

Bid Factors **Ratio of BGS Unit Costs @ customer to All-In Average Cost @ bulk system**

from Table #14 of the bid factor spreadsheet --- round to 4 decimal places

MULTIPLICATIVE FACTORS
Includes Energy, Generation Obligations, and Ancillary Services

	BGS-1	BGS-2 secondary	BGS-2 primary	BGS-2 high voltage	BGS-5
Summer - all hrs	**1.2260**	**1.2620**	**1.2230**	**1.2030**	**0.9210**
On pk					
Off pk					
Winter - all hrs		**0.9950**	**0.9640**	**0.9490**	**0.8250**
On pk					
Off pk					
All usage Multiplier	**0.9630**				
Constant Block 1 (in $/MWh)	**5.2450**				
Constant Block 2 (in $/MWh)	**-11.0300**				
Annual - all hrs	1.0610	1.0890	1.0550	1.0380	0.8530

	BGS-3 secondary	BGS-3 primary	BGS-3 high voltage	BGS-3 ≥138kV
Summer - all hrs				
On pk	**1.511**	**1.461**	**1.431**	**1.413**
Off pk	**0.911**	**0.881**	**0.863**	**0.853**
Winter - all hrs				
On pk	**1.222**	**1.181**	**1.157**	**1.143**
Off pk	**0.716**	**0.692**	**0.678**	**0.670**
Annual - including Gen Obl $	1.063	1.028	1.007	0.995

Ameren
Class Rate Determination

Calculation of XXXXXXXX 200X to XXXXXXXXX 200X BGS Rates
based on results of XXXXXXXXX 200X BGS Auction

Results

Resulting BGS Rates - in cents per kWh
shown to 4 decimal places
Includes Energy, Generation Obligations, and Ancillary Services

	BGS-1	BGS-2 secondary	BGS-2 primary	BGS-2 high voltage	BGS-5
Summer - all hrs	*0.0000*	*0.0000*	*0.0000*	*0.0000*	*0.0000*
On pk					
Off pk					
Winter - all hrs		*0.0000*	*0.0000*	*0.0000*	*0.0000*
On pk					
Off pk					
for Block 1	*0.5245*				
for Block 2	*-1.1030*				

	BGS-3 secondary	BGS-3 primary	BGS-3 high voltage	BGS-3 ≥38kV
Summer - all hrs				
On pk	*0.0000*	*0.0000*	*0.0000*	*0.0000*
Off pk	*0.0000*	*0.0000*	*0.0000*	*0.0000*
Winter - all hrs				
On pk	*0.0000*	*0.0000*	*0.0000*	*0.0000*
Off pk	*0.0000*	*0.0000*	*0.0000*	*0.0000*

PLUS:

Gen Cost - per kW of Gen Obl/Mo				
summer	$ -	$ -	$ -	$ -
winter	$ -	$ -	$ -	$ -
Trans Cost - per kW of Trans Obl/Mo				
all months	$ -	$ -	$ -	$ -

Class Bid Factor Multiplier Determination

Development of BGS-4 Cost and Bid Factors for 2004/5 Filing

Adjusted to Billing Time Periods

Table #1 **% Usage During MISO On-Peak Period** *On-Peak periods defined as the 16 hr MISO Trading period, adj for NERC holidays*

(data rounded to nearest .1%)	CILCO BGS-4 s	CILCO BGS-4 p	CILCO BGS-4 hv	CILCO BGS-4 t	CIPS BGS-4 s	CIPS BGS-4 p	CIPS BGS-4 hv	CIPS BGS-4 t	IP BGS-4 s	IP BGS-4 p	IP BGS-4 hv	IP BGS-4 t	UE BGS-4 s	UE BGS-4 p	UE BGS-4 hv	UE BGS-4 t
January	53.5%	53.2%		51.2%	50.6%	50.5%	44.7%	43.3%	47.9%	51.9%	48.8%	49.7%	48.6%	44.4%	41.6%	36.3%
February	54.0%	56.0%		49.4%	50.3%	50.3%	46.0%	42.9%	47.8%	52.1%	48.6%	49.3%	48.7%	44.5%	41.9%	35.9%
March	53.1%	56.3%		46.6%	48.7%	49.6%	43.0%	40.1%	45.3%	49.9%	46.4%	46.0%	52.6%	42.2%	44.7%	37.8%
April	56.5%	54.0%		50.5%	52.0%	51.4%	46.8%	45.3%	49.1%	53.2%	50.2%	50.6%	52.9%	46.0%	43.8%	37.3%
May	55.0%	49.5%		47.8%	50.2%	48.4%	42.3%	39.0%	46.0%	50.4%	47.5%	45.8%	47.2%	42.5%	38.9%	35.2%
June	51.6%	48.3%		49.2%	53.0%	50.1%	45.4%	42.5%	47.3%	51.0%	48.1%	47.9%	53.3%	43.8%	46.2%	42.9%
July	52.6%	50.0%		50.1%	51.9%	50.5%	44.1%	42.3%	48.7%	51.8%	49.4%	48.4%	51.0%	44.5%	43.4%	43.8%
August	53.3%	48.0%		46.8%	50.1%	48.7%	42.1%	39.0%	45.7%	49.7%	47.5%	46.2%	49.6%	42.5%	40.9%	41.6%
September	52.1%	51.9%		49.0%	52.2%	49.4%	45.6%	44.1%	48.1%	51.7%	49.0%	47.7%	51.7%	43.8%	43.1%	38.0%
October	56.2%	56.4%		50.0%	52.3%	52.0%	47.5%	45.0%	50.4%	55.0%	51.6%	50.9%	54.5%	46.3%	45.1%	36.9%
November	52.2%	52.7%		44.7%	47.0%	46.3%	40.7%	39.0%	44.1%	47.9%	44.7%	43.3%	46.9%	39.8%	38.4%	33.3%
December	52.1%	53.4%		48.9%	49.2%	49.5%	44.2%	42.4%	47.4%	52.2%	49.0%	49.0%	50.4%	44.3%	44.0%	38.5%

% usage during MISO Off-Peak period

(data rounded to nearest .1%)	*Profile Meter Data* CILCO BGS-4 s	*Profile Meter Data* CILCO BGS-4 p	*Profile Meter Data* CILCO BGS-4 hv	CILCO BGS-4 t	CIPS BGS-4 s	CIPS BGS-4 p	CIPS BGS-4 hv	CIPS BGS-4 t	IP BGS-4 s	IP BGS-4 p	IP BGS-4 hv	IP BGS-4 t	UE BGS-4 s	UE BGS-4 p	UE BGS-4 hv	UE BGS-4 t
January	46.5%	46.9%		48.8%	49.4%	49.6%	55.3%	56.7%	52.1%	48.1%	51.2%	50.3%	51.4%	55.6%	58.4%	63.7%
February	46.0%	44.1%		50.6%	49.7%	49.8%	54.0%	57.1%	52.2%	47.9%	51.4%	50.7%	51.3%	55.5%	58.1%	64.1%
March	46.9%	43.8%		53.4%	51.3%	50.5%	57.0%	59.9%	54.7%	50.1%	53.6%	54.0%	47.4%	57.8%	55.3%	62.2%
April	43.5%	46.0%		49.5%	48.0%	48.6%	53.2%	54.8%	50.9%	46.8%	49.8%	49.4%	47.1%	54.0%	56.2%	62.7%
May	45.0%	50.6%		52.2%	49.8%	51.6%	57.7%	61.0%	54.0%	49.6%	52.5%	54.2%	52.8%	57.5%	61.1%	64.8%
June	48.4%	51.8%		50.8%	47.0%	49.9%	54.6%	57.5%	52.7%	49.0%	51.9%	52.1%	46.7%	56.2%	53.8%	57.1%
July	47.4%	50.1%		49.9%	48.1%	49.5%	55.9%	57.7%	51.3%	48.2%	50.6%	51.6%	49.0%	55.5%	56.6%	56.2%
August	46.7%	52.1%		53.2%	49.9%	51.3%	57.9%	61.1%	54.3%	50.3%	52.5%	53.8%	50.4%	57.5%	59.1%	58.4%
September	47.9%	48.2%		51.0%	47.8%	50.7%	54.4%	55.9%	51.9%	48.3%	51.0%	52.3%	48.3%	56.2%	56.9%	62.0%
October	43.8%	43.7%		50.0%	47.7%	48.1%	52.5%	55.1%	49.6%	45.0%	48.4%	49.1%	45.5%	53.7%	54.9%	63.1%
November	47.8%	47.3%		55.3%	53.0%	53.7%	59.3%	61.0%	55.9%	52.1%	55.3%	56.7%	53.1%	60.2%	61.6%	66.7%
December	47.9%	46.7%		51.1%	50.8%	50.5%	55.8%	57.7%	52.6%	47.8%	51.0%	51.0%	49.6%	55.7%	56.0%	61.5%

Table #2 **% Usage During Ameren On-Peak Billing Period**

(data rounded to nearest %)	CILCO BGS-4 s	CILCO BGS-4 p	CILCO BGS-4 hv	CILCO BGS-4 t	CIPS BGS-4 s	CIPS BGS-4 p	CIPS BGS-4 hv	CIPS BGS-4 t	IP BGS-4 s	IP BGS-4 p	IP BGS-4 hv	IP BGS-4 t	UE BGS-4 s	UE BGS-4 p	UE BGS-4 hv	UE BGS-4 t
January	----	----		----	----	----	----	----	----	----	----	----	----	----	----	----
February	----	----		----	----	----	----	----	----	----	----	----	----	----	----	----
March	----	----		----	----	----	----	----	----	----	----	----	----	----	----	----
April	----	----		----	----	----	----	----	----	----	----	----	----	----	----	----
May	----	----		----	----	----	----	----	----	----	----	----	----	----	----	----
June	----	----		----	----	----	----	----	----	----	----	----	----	----	----	----
July	----	----		----	----	----	----	----	----	----	----	----	----	----	----	----
August	----	----		----	----	----	----	----	----	----	----	----	----	----	----	----
September	----	----		----	----	----	----	----	----	----	----	----	----	----	----	----
October	----	----		----	----	----	----	----	----	----	----	----	----	----	----	----
November	----	----		----	----	----	----	----	----	----	----	----	----	----	----	----
December	----	----		----	----	----	----	----	----	----	----	----	----	----	----	----

% usage during Ameren Off-Peak period

(data rounded to nearest %)	CILCO BGS-4 s	CILCO BGS-4 p	CILCO BGS-4 hv	CILCO BGS-4 t	CIPS BGS-4 s	CIPS BGS-4 p	CIPS BGS-4 hv	CIPS BGS-4 t	IP BGS-4 s	IP BGS-4 p	IP BGS-4 hv	IP BGS-4 t	UE BGS-4 s	UE BGS-4 p	UE BGS-4 hv	UE BGS-4 t
January	----	----		----	----	----	----	----	----	----	----	----	----	----	----	
February	----	----		----	----	----	----	----	----	----	----	----	----	----	----	
March	----	----		----	----	----	----	----	----	----	----	----	----	----	----	
April	----	----		----	----	----	----	----	----	----	----	----	----	----	----	
May	----	----		----	----	----	----	----	----	----	----	----	----	----	----	
June	----	----		----	----	----	----	----	----	----	----	----	----	----	----	
July	----	----		----	----	----	----	----	----	----	----	----	----	----	----	
August	----	----		----	----	----	----	----	----	----	----	----	----	----	----	
September	----	----		----	----	----	----	----	----	----	----	----	----	----	----	
October	----	----		----	----	----	----	----	----	----	----	----	----	----	----	
November	----	----		----	----	----	----	----	----	----	----	----	----	----	----	
December	----	----		----	----	----	----	----	----	----	----	----	----	----	----	

Table #3 **Class Usage @ Bulk System**

Sales for 2003 - in MWh

	CILCO BGS-4 s	CILCO BGS-4 p	CILCO BGS-4 hv	CILCO BGS-4 t	CIPS BGS-4 s	CIPS BGS-4 p	CIPS BGS-4 hv	CIPS BGS-4 t	IP BGS-4 s	IP BGS-4 p	IP BGS-4 hv	IP BGS-4 t	UE BGS-4 s	UE BGS-4 p	UE BGS-4 hv	UE BGS-4 t	TOTALS
January	9,297	71,556		22,324	24,761	110,362	41,711	60,333	58,222	122,222	283,010	220,774	2,855	40,276	87,193	18,660	1,173,555
February	9,648	94,210		22,727	24,667	110,493	38,669	57,037	60,843	121,085	310,268	219,062	2,466	36,329	87,486	21,439	1,216,448
March	8,716	83,949		21,861	24,997	107,735	39,271	57,219	57,406	117,240	286,134	200,569	2,695	31,361	89,419	18,759	1,147,332
April	9,265	80,153		24,225	24,844	112,462	41,381	58,878	61,682	121,250	325,415	221,002	2,886	33,907	85,036	15,085	1,217,470
May	9,238	77,132		50,795	24,769	112,714	40,740	61,041	63,244	131,948	309,742	218,095	3,124	32,149	83,410	14,038	1,232,180
June	11,133	82,068		54,067	27,677	121,848	41,368	60,397	65,050	131,419	333,276	212,668	3,570	32,759	86,640	12,571	1,278,512
July	11,835	87,869		54,168	26,644	119,866	44,645	62,930	67,474	137,304	310,133	233,667	3,401	33,434	94,682	13,770	1,301,622
August	12,683	83,675		55,681	26,647	118,582	42,964	60,973	66,865	143,865	320,485	242,394	3,008	39,305	88,478	12,848	1,318,163
September	11,676	59,642		56,664	28,488	123,286	43,867	60,351	67,543	148,001	325,418	241,133	2,900	41,145	90,837	14,985	1,315,737

Class Bid Factor Multiplier Determination

October	11,283	49,762		52,915	26,444	118,848	46,229	59,417	60,889	135,526	302,722	220,725	2,810	40,105	90,463	15,335	1,233,474
November	10,868	57,237		54,447	26,135	115,905	44,133	57,574	60,996	125,141	309,715	220,121	2,933	36,318	88,187	16,893	1,226,601
December	10,093	62,226		51,150	24,659	105,518	46,543	58,953	59,049	120,065	288,485	214,719	2,717	32,124	92,331	17,410	1,186,043
Total	125,734	889,478	0	521,024	310,731	1,377,421	511,542	715,102	748,863	1,554,867	3,704,803	2,664,949	35,365	429,302	1,064,164	191,794	14,845,138
@ customer	119,199	868,232	0	515,916	287,635	1,335,228	506,077	714,531	702,134	1,487,754	3,643,055	2,664,949	32,934	413,625	1,047,612	191,640	14,530,521
																	0.9788067

Usage by season/rate blocks - @ Bulk System

	CILCO BGS-4 s	CILCO BGS-4 p	CILCO BGS-4 hv	CILCO BGS-4 t	CIPS BGS-4 s	CIPS BGS-4 p	CIPS BGS-4 hv	CIPS BGS-4 t	IP BGS-4 s	IP BGS-4 p	IP BGS-4 hv	IP BGS-4 t	UE BGS-4 s	UE BGS-4 p	UE BGS-4 hv	UE BGS-4 t	TOTALS
winter MWh =	78,407	576,224	0	300,444	201,275	894,038	338,878	470,451	482,130	994,477	2,415,491	1,735,087	22,487	282,569	703,526	137,619	9,633,104
on-peak																	
off-peak																	
Block 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Block 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
summer MWh =	47,327	313,254	0	220,580	109,456	483,382	172,665	244,651	266,733	560,389	1,289,313	929,862	12,877	146,733	360,637	54,174	5,212,034
on-peak																	
off-peak																	14,845,138

Usage by season/period - MISO periods
in MWhs

	CILCO BGS-4 s	CILCO BGS-4 p	CILCO BGS-4 hv	CILCO BGS-4 t	CIPS BGS-4 s	CIPS BGS-4 p	CIPS BGS-4 hv	CIPS BGS-4 t	IP BGS-4 s	IP BGS-4 p	IP BGS-4 hv	IP BGS-4 t	UE BGS-4 s	UE BGS-4 p	UE BGS-4 hv	UE BGS-4 t	TOTALS
Winter																	
on-peak	42,400	310,790	0	145,165	100,658	444,580	150,504	198,114	227,834	513,165	1,167,785	834,744	11,284	123,798	297,880	50,116	4,618,817
off-peak	36,007	265,434	0	155,278	100,617	449,459	188,374	272,337	254,296	481,313	1,247,706	900,343	11,203	158,771	405,646	87,503	5,014,287
	78,407	576,224	0	300,444	201,275	894,038	338,878	470,451	482,130	994,477	2,415,491	1,735,087	22,487	282,569	703,526	137,619	9,633,104
Summer																	
on-peak	24,813	154,535	0	107,563	56,728	240,068	78,478	102,652	126,561	286,152	625,087	442,174	6,628	63,991	156,458	22,463	2,492,352
off-peak	22,514	158,719	0	113,017	52,729	243,314	96,187	141,999	140,171	274,237	664,226	487,689	6,250	82,742	204,179	31,711	2,719,682
	47,327	313,254	0	220,580	109,456	483,382	172,665	244,651	266,733	560,389	1,289,313	929,862	12,877	146,733	360,637	54,174	5,212,034
Total on-peak	67,213	465,325	0	252,728	157,385	684,648	226,982	300,766	354,395	799,317	1,792,872	1,276,918	17,912	187,789	454,338	72,579	7,111,168
Total off-peak	58,521	424,153	0	268,295	153,346	692,773	284,560	414,336	394,468	755,550	1,911,931	1,388,032	17,453	241,513	609,825	119,214	7,733,970
	125,734	889,478	0	521,024	310,731	1,377,421	511,542	715,102	748,863	1,554,867	3,704,803	2,664,949	35,365	429,302	1,064,164	191,794	14,845,138

Class Bid Factor Multiplier Determination

Table #4 **Forwards Prices - Energy Only @ bulk system**
in $/MWh

	On-Peak	Off/On Pk LMP ratio	Resulting Off-Peak
January	51.80		28.56
February	52.70		29.61
March	52.37		28.50
April	51.30		26.53
May	43.43		22.43
June	47.86		24.73
July	61.78		35.79
August	62.78		32.93
September	45.32		25.85
October	41.27		21.84
November	43.59		26.09
December	43.91		25.78

Table #5 **Zone to Hub Basis Differential**

	On-Peak	Off-Peak
January	100%	100%
February	100%	100%
March	100%	100%
April	100%	100%
May	100%	100%
June	100%	100%
July	100%	100%
August	100%	100%
September	100%	100%
October	100%	100%
November	100%	100%
December	100%	100%

Table #6 **Losses**

	CILCO BGS-4 s	CILCO BGS-4 p	CILCO BGS-4 hv	CILCO BGS-4 t	CIPS BGS-4 s	CIPS BGS-4 p	CIPS BGS-4 hv	CIPS BGS-4 t	IP BGS-4 s	IP BGS-4 p	IP BGS-4 hv	IP BGS-4 t	UE BGS-4 s	UE BGS-4 p	UE BGS-4 hv	UE BGS-4 t	TOTALS
Transmission Loss Factors =																	
Expansion Factor =	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	
1 / Expansion Factor =	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	
																	Composite
Distribution Losses To Transmission System =	5.1970%	2.3886%	1.0861%	0.9803%	7.4330%	3.0632%	1.0685%	0.0799%	6.2400%	4.3163%	1.6667%	0.0000%	6.8730%	3.6516%	1.5554%	0.0799%	2.1193%
Expansion Factor =	1.05482	1.02447	1.01098	1.00990	1.08030	1.03160	1.01080	1.00080	1.06655	1.04511	1.01695	1.00000	1.07380	1.03790	1.01580	1.00080	1.02165
1 / Expansion Factor =	0.94803	0.97611	0.98914	0.99020	0.92567	0.96937	0.98932	0.99920	0.93760	0.95684	0.98333	1.00000	0.93127	0.96348	0.98445	0.99920	0.9788067
																	0.9788067
																	0.0211933

Table #7 **Summary of Average BGS-4 Energy Only Unit Costs @ bulk system - MISO Time Periods**
based on Forwards prices corrected for congestion - MISO time periods - in $/MWh

	CILCO BGS-4 s	CILCO BGS-4 p	CILCO BGS-4 hv	CILCO BGS-4 t	CIPS BGS-4 s	CIPS BGS-4 p	CIPS BGS-4 hv	CIPS BGS-4 t	IP BGS-4 s	IP BGS-4 p	IP BGS-4 hv	IP BGS-4 t	UE BGS-4 s	UE BGS-4 p	UE BGS-4 hv	UE BGS-4 t
Summer - all hrs	$ 42.96	$ 42.55	$ -	$ 41.77	$ 42.38	$ 41.95	$ 40.77	$ 40.17	$ 41.51	$ 42.37	$ 41.61	$ 41.64	$ 42.46	$ 40.46	$ 40.57	$ 39.98
MISO on pk	$ 54.79	$ 55.18	$ -	$ 54.33	$ 54.10	$ 54.31	$ 54.31	$ 54.26	$ 54.41	$ 54.36	$ 54.26	$ 54.55	$ 54.29	$ 54.29	$ 54.33	$ 54.50
MISO off pk	$ 29.92	$ 30.25	$ -	$ 29.81	$ 29.77	$ 29.76	$ 30.00	$ 29.97	$ 29.86	$ 29.85	$ 29.70	$ 29.94	$ 29.92	$ 29.77	$ 30.02	$ 29.70
Winter - all hrs	$ 37.54	$ 38.25	$ -	$ 35.23	$ 36.82	$ 36.75	$ 35.52	$ 35.15	$ 36.23	$ 37.07	$ 36.49	$ 36.45	$ 36.79	$ 35.54	$ 35.22	$ 34.29
MISO on pk	$ 47.26	$ 48.35	$ -	$ 45.61	$ 47.45	$ 47.51	$ 47.35	$ 47.56	$ 47.49	$ 47.38	$ 47.52	$ 47.56	$ 47.42	$ 47.55	$ 47.56	$ 47.97
MISO off pk	$ 26.09	$ 26.43	$ -	$ 25.34	$ 26.16	$ 26.11	$ 26.07	$ 26.13	$ 26.14	$ 26.09	$ 26.17	$ 26.14	$ 26.08	$ 26.17	$ 26.17	$ 26.46
Annual	$ 39.58	$ 39.76	$ -	$ 38.00	$ 38.78	$ 38.58	$ 37.29	$ 36.87	$ 38.11	$ 38.98	$ 38.27	$ 38.26	$ 38.85	$ 37.22	$ 37.03	$ 35.90
System Total	$ 38.22															

Table #8 **Summary of Average BGS-4 Energy Only Costs @ Bulk System - MISO Time Periods**
based on Forwards prices corrected for congestion - in $1,000

	CILCO BGS-4 s	CILCO BGS-4 p	CILCO BGS-4 hv	CILCO BGS-4 t	CIPS BGS-4 s	CIPS BGS-4 p	CIPS BGS-4 hv	CIPS BGS-4 t	IP BGS-4 s	IP BGS-4 p	IP BGS-4 hv	IP BGS-4 t	UE BGS-4 s	UE BGS-4 p	UE BGS-4 hv	UE BGS-4 t	TOTALS
Summer - all hrs	$ 2,033	$ 13,328	$ -	$ 9,213	$ 4,639	$ 20,279	$ 7,039	$ 9,827	$ 11,072	$ 23,743	$ 53,644	$ 38,721	$ 547	$ 5,937	$ 14,629	$ 2,166	$ 216,818
MISO on pk	$ 1,360	$ 8,527	$ -	$ 5,844	$ 3,069	$ 13,038	$ 4,154	$ 5,570	$ 6,867	$ 15,556	$ 33,916	$ 24,118	$ 360	$ 3,474	$ 8,501	$ 1,224	$ 135,597
MISO off pk	$ 674	$ 4,801	$ -	$ 3,369	$ 1,570	$ 7,241	$ 2,885	$ 4,256	$ 4,185	$ 8,187	$ 19,728	$ 14,603	$ 187	$ 2,463	$ 6,129	$ 942	$ 81,220
	$ 2,033	$ 13,328	$ -	$ 9,213	$ 4,639	$ 20,279	$ 7,039	$ 9,827	$ 11,072	$ 23,743	$ 53,644	$ 38,721	$ 547	$ 5,937	$ 14,629	$ 2,166	$ 216,818
Winter - all hrs	$ 2,943	$ 22,042	$ -	$ 10,584	$ 7,411	$ 32,858	$ 12,039	$ 16,537	$ 17,466	$ 36,868	$ 88,143	$ 63,236	$ 827	$ 10,042	$ 24,782	$ 4,719	$ 350,498
MISO on pk	$ 2,004	$ 15,028	$ -	$ 6,850	$ 4,780	$ 21,121	$ 7,127	$ 9,422	$ 10,819	$ 24,313	$ 55,495	$ 39,669	$ 535	$ 5,886	$ 14,168	$ 2,404	$ 219,450
MISO off pk	$ 940	$ 7,014	$ -	$ 3,934	$ 2,632	$ 11,737	$ 4,912	$ 7,115	$ 6,647	$ 12,555	$ 32,648	$ 23,537	$ 292	$ 4,155	$ 10,614	$ 2,315	$ 131,048
	$ 2,943	$ 22,042	$ -	$ 10,584	$ 7,411	$ 32,858	$ 12,039	$ 16,537	$ 17,466	$ 36,868	$ 88,143	$ 63,236	$ 827	$ 10,042	$ 24,782	$ 4,719	$ 350,498
Annual	$ 4,976	$ 35,370	$ -	$ 19,798	$ 12,050	$ 53,138	$ 19,078	$ 26,364	$ 28,538	$ 60,611	$ 141,786	$ 101,957	$ 1,374	$ 15,978	$ 39,411	$ 6,885	$ 567,316
Ameren BGS-3 Total	$ 567,316																

Class Bid Factor Multiplier Determination

Table #9 **Summary of Average BGS-4 Energy Only Unit Costs @ customer**
based on Forwards prices corrected for congestion & losses - MISO billing time periods - in $/MWh

	BGS-4 secondary	BGS-4 primary	BGS-4 high voltage	BGS-4 ≥138 kV
Summer - all hrs	$ 44.47	$ 43.08	$ 42.27	$ 41.66
On Peak	$ 58.16	$ 56.34	$ 55.28	$ 54.48
Off Peak	$ 31.92	$ 30.93	$ 30.35	$ 29.91
Winter - all hrs	38.90	37.68	36.97	36.44
On Peak	$ 50.79	$ 49.20	$ 48.28	$ 47.58
Off Peak	27.94	27.07	26.56	26.17
Annual - all hrs	$ 40.85	$ 39.58	$ 38.83	$ 38.27

Table #10 **Generation & Transmission Obligations and Costs and Other Adjustments**
Avg of 4 Summer CPs – in MW

	CILCO BGS-4 s	CILCO BGS-4 p	CILCO BGS-4 hv	CILCO BGS-4 t	CIPS BGS-4 s	CIPS BGS-4 p	CIPS BGS-4 hv	CIPS BGS-4 t	IP BGS-4 s	IP BGS-4 p	IP BGS-4 hv	IP BGS-4 t	UE BGS-4 s	UE BGS-4 p	UE BGS-4 hv	UE BGS-4 t	TOTALS
Gen Obl - MW	23.0	120.7	0.0	95.7	262.0	66.1	88.7	90.7	103.7	253.7	487.4	345.8	4.3	48.6	119.5	17.9	2,127.7
Trans Obl - MW																	0.0

# of Months and Days used in this analysis

	# of summer days =	122	# of summer months =	4	
	# of winter days =	243	# of winter months =	8	
			total # months =	12	
Transmission Cost	year round =	$ -	per MW-yr		
Generation Capacity cost	summer =	$ 24.00	$/MW/day		
	winter =	$ 3.00	$/MW/day		

Resulting average generation capacity cost =
annual >> $ 10.02 per kW/yr

Rate Blocking per Ameren Tariffs

	BGS-4 secondary	BGS-4 primary	BGS-4 high voltage	BGS-4 ≥138 kV
% usage in Summer Blocks				
Block 1	0.0%	0.0%	0.0%	0.0%
Block 2	0.0%	0.0%	0.0%	0.0%
Required summer inversion =	0.0000	0.0000	0.0000	0.0000
% usage in Winter Blocks				
Block 1	0.0%	0.0%	0.0%	0.0%
Block 2	0.0%	0.0%	0.0%	0.0%
Required winter inversion =	0.0000	0.0000	0.0000	0.0000

Table #11 **Ancillary Services**

forecasted overall annual average	$ 2.00	per MWh @ bulk system		
per MWh @ customer	$ 2.14	$ 2.07	$ 2.03	$ 2.00

Table #12 **Summary of Obligation Costs Expressed as $/MWh @ customer**

	BGS-4 secondary	BGS-4 primary	BGS-4 high voltage	BGS-4 ≥138 kV
Transmission Obl - all months	$ -	$ -	$ -	$ -
Generation Obl -				
	$ 0.56	$ 0.54	$ 0.53	$ 0.52
recovery per summer MWh	$ 1.28	$ 1.24	$ 1.21	$ 1.20
recovery per winter MWh	$ 0.17	$ 0.17	$ 0.16	$ 0.16

Table #13 **Summary of BGS-4 Unit Costs @ customer**

includes Energy, Generation Obligations, and Ancillary Services - in $/MWh

	BGS-4 secondary	BGS-4 primary	BGS-4 high voltage	BGS-4 ≥138 kV
Summer - all hrs	$ 47.89	$ 46.39	$ 45.52	$ 44.86
On Peak	$ 61.58	$ 59.65	$ 58.53	$ 57.68
Off Peak	$ 35.34	$ 34.24	$ 33.59	$ 33.11
Block 1				
Block 2				
Winter - all hrs	$ 41.21	$ 39.92	$ 39.17	$ 38.60
On Peak	$ 53.10	$ 51.44	$ 50.47	$ 49.74
Off Peak	$ 30.25	$ 29.30	$ 28.75	$ 28.34
Block 1				
Block 2				
Annual -all hrs	$ 43.55	$ 42.19	$ 41.40	$ 40.80

BGS-4 Total Cost in $1000 = $ 604,787

BGS-4 All-In Average cost @ customer = $ 41.62 per MWh

BGS-4 All-In Average costs @ bulk system = $ 40.74 per MWh

Class Bid Factor I ier Determination

Table #14 **Ratio of BGS Unit Costs @ customer to All-In Average Cost @ bulk system - rounded to 3 decimal places**

		BGS-4	
Grand Total Cost BGS-4 in $1000 =	$	604,787	
All-In Average cost @ customer =	$	41.62	per MWh
All-In Average costs @ bulk system =	$	40.74	per MWh

Includes Energy, Generation Obligations, and Ancillary Services - per MISO time periods

		BGS-4 secondary	BGS-4 primary	BGS-4 high voltage	BGS-4 ≥138 kV
Summer - all hrs					
	On pk	**1.511**	**1.464**	**1.437**	**1.416**
	Off pk	**0.867**	**0.840**	**0.825**	**0.813**
Winter - all hrs					
	On pk	**1.303**	**1.263**	**1.239**	**1.221**
	Off pk	**0.742**	**0.719**	**0.706**	**0.696**
Annual - including Gen Obl $		1.069	1.036	1.016	1.001

Class Bid Factor i ier Determination

Table #15 **Summary of Total BGS Costs by Season**

	BGS-4 secondary	BGS-4 primary	BGS-4 high voltage	BGS-4 ≥38 kV	
Total Costs by Rate - in $1000					
Summer	$ 19,548	$ 67,360	$ 81,644	$ 64,920	$233,472
Winter	$ 30,231	$ 105,897	$ 133,287	$ 101,900	$371,315
Total	$ 49,780	$ 173,258	$ 214,931	$ 166,819	$604,787
% of Annual Total $ by Rate					
Summer	39%	39%	38%	39%	39%
Winter	61%	61%	62%	61%	61%

Total Costs - in $1000	BGS-4
Summer	$ 233,472
Winter	$ 371,315
Total	$ 604,787

% of Annual Total $			
Summer	39%	$ 44.79	per MWh @ bulk system
Winter	61%	$ 38.55	per MWh @ bulk system

Summer	**1.0995**
Winter	**0.9461**

Table #16 **Spreadsheet Error Checking -** Reconciliation of Customer Revenue and Supplier Payments, based on above data only

Assumed Winning Bid Price =	$ -
Payment Ratio - Summer =	1.0995
Payment Ratio - Winter =	0.9461

	BGS-4 secondary	BGS-4 primary	BGS-4 high voltage	BGS-4 ≥38 kV	
Total Rate Revenue - in $1000					
Summer	$ -	$ -	$ -	$ -	$ -
Winter	$ -	$ -	$ -	$ -	$ -
Total	$ -	$ -	$ -	$ -	$ -

	BGS-4
Total Summer	$ -
Total Winter	$ -
Grand Total	$ -

	BGS-4 secondary	BGS-4 primary	BGS-4 high voltage	BGS-4 ≥38 kV	
Total Supplier Payment - in $1000					
Summer	$ -	$ -	$ -	$ -	$ -
Winter	$ -	$ -	$ -	$ -	$ -
Total	$ -	$ -	$ -	$ -	$ -

	BGS-4
Total Summer	$ -
Total Winter	$ -
Grand Total	$ -
Difference (in $1000) =	$ -

Total Supplier Energy @ the Bulk System - in MWh	
Summer	5,212,034
Winter	9,633,104
Total	14,845,138

Am...en
Class Rate Determination

Calculation of XXXXXXXX 200X to XXXXXXXXX 200X BGS-4 Rates
based on results of XXXXXXXXX 200X BGS-L Auction

Input line #	**Payment Identifier >>**	**BGS-4** *17 month bid*	*Notes:*
1	Winning Bid - in $/MWh	$ -	winning Bid
2	# of Traunches for Bid	28	from then current Bid
3	Total # of Traunches	28	from then current Bid
	Payment Factors		
4	Summer	1.0995	from then current Bid Factor Spreadsheet Table #15
5	Winter	0.9461	from then current Bid Factor Spreadsheet Table #15
	Applicable Customer Usage @ bulk system - in MWh		
6	Summer MWh	5,212,034	from current Bid Factor Spreadsheet Table #16
7	Winter MWh	9,633,104	
	Total Payment to Suppliers - in $1000		
8	Summer	$ -	= (1) * (2)/(3) * (4) * (6)
9	Winter	$ -	= (1) * (2)/(3) * (5) * (7)
10	Total	$ -	
	Average Payment to Suppliers - in $/MWh		
11	Summer	$ -	= sum(line 8) / (6) - rounded to 2 decimal places
12	Winter	$ -	= sum(line 9) / (7) - rounded to 2 decimal places
13	Total weighted average	$ -	= sum(line 10) / [(6) + (7)] rounded to 2 decimal places
		<<< used in calculation of >>> Customer Rates	
	Reconciliation of amounts - in $1000		
14	Weighted avg * Total MWh =	$ -	= (13) * [(6)+(7)] / 1000
15	Total Payment to Suppliers =	$ -	= sum (line 10)
16	Difference =	$ -	= line (14) - line (15)

Am..n
Class Rate Determination

Calculation of XXXXXXXX 200X to XXXXXXXXX 200X BGS-4 Rates
based on results of XXXXXXXXX 200X BGS-L Auction

Bid Factors **Ratio of BGS-4 Unit Costs @ customer to All-In Average Cost @ bulk system**

MULTIPLICATIVE FACTORS
includes Energy, Generation Obligations, and Ancillary Services
from Table #14 of the bid factor spreadsheet

	BGS-4 secondary	BGS-4 primary	BGS-4 high voltage	BGS-4 ≥38 kV
Summer - all hrs				
On pk	**1.511**	**1.464**	**1.437**	**1.416**
Off pk	**0.867**	**0.840**	**0.825**	**0.813**
Winter - all hrs				
On pk	**1.303**	**1.263**	**1.239**	**1.221**
Off pk	**0.742**	**0.719**	**0.706**	**0.696**
Annual - including Gen Obl $	1.069	1.036	1.016	1.001

Results **Resulting BGS-4 Rates - in cents per kWh**
shown to 4 decimal places
includes Energy, Generation Obligations, and Ancillary Services

	BGS-4 secondary	BGS-4 primary	BGS-4 high voltage	BGS-4 ≥38 kV
Summer - all hrs				
On pk	***0.0000***	***0.0000***	***0.0000***	***0.0000***
Off pk	***0.0000***	***0.0000***	***0.0000***	***0.0000***
Winter - all hrs				
On pk	***0.0000***	***0.0000***	***0.0000***	***0.0000***
Off pk	***0.0000***	***0.0000***	***0.0000***	***0.0000***

PLUS:

Gen Cost - per kW of Gen Obl/Mo				
summer	$ -	$ -	$ -	$ -
winter	$ -	$ -	$ -	$ -
Trans Cost - per kW of Trans Obl/Mo				
all months	$ -	$ -	$ -	$ -