

**TABLES FOR THE INDUSTRIAL EXEMPTION DOCUMENTATION**

Table A

Table A												
SALE PRICES	Oct-96	Nov-96	Dec-96	Jan-97	Feb-97	Mar-97	Apr-97	May-97	Jun-97	Jul-97	Aug-97	Sep-97
SALE equations/1												
for all months except May the equation is												
$p(q) = a + b*(q) + c*(q^(1/3))$												
For May p equation is												
$p(q) = a/q$												
a=	18.64807534	18.63232365	18.85839942	18.71255412	17.01486773	16.45535492	17.10407623	1.204924893	19.13379936	18.86935033	19.98442261	19.83416814
b=	-0.001735804	-0.00147728	-0.001600248	-0.001986417	-0.002136799	-0.003181633	-0.001716784	28809.04554	-0.002249846	-0.002623377	-0.001908075	-0.002437895
c=	-0.145457243	-0.190659893	-0.1637664	-0.165912357	-0.14	0.03	-0.18	0.00	-0.09	0.16	-0.04	0.06
fiscal year price change in % from 1995 \$'s/2	1.053496	1.053496	1.053496	1.053496	1.053496	1.053496	1.053496	1.053496	1.053496	1.053496	1.053496	1.053496
transmission costs for ISB /3	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315
	15.20	14.57	14.71	12.34	8.80	8.04	6.21	7.77	8.26	13.59	16.65	18.39
	Oct-97	Nov-97	Dec-97	Jan-98	Feb-98	Mar-98	Apr-98	May-98	Jun-98	Jul-98	Aug-98	Sep-98
a=	19.25454331	19.50444257	20.04543949	19.64124566	18.8785066	18.47585274	18.24967938	0.461578236	21.66975444	22.32542915	22.24793939	20.66877136
b=	-0.002062399	-0.002069985	-0.001875121	-0.001313543	-0.001045264	-0.001484682	-0.001836211	35569.54677	-0.002140079	-0.002452756	-0.001448208	-0.002001409
c=	-0.05	-0.05	-0.10	-0.23	-0.27	-0.19	-0.12	0.00	-0.16	-0.01	-0.22	-0.01
fiscal year price change in % from 1995 \$'s/2	1.081625	1.081625	1.081625	1.081625	1.081625	1.081625	1.081625	1.081625	1.081625	1.081625	1.081625	1.081625
transmission costs for ISB /3	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315
	15.76	15.82	14.88	11.90	7.62	7.38	4.31	7.56	7.06	12.53	15.78	18.23

Table A

	Oct-98	Nov-98	Dec-98	Jan-99	Feb-99	Mar-99	Apr-99	May-99	Jun-99	Jul-99	Aug-99	Sep-99
a=	20.4304353	20.55249542	20.99373243	20.02500048	18.9002962	18.42707567	18.42750473	5.299467192	21.49822545	21.90645932	21.40124409	20.77544605
b=	-0.001493338	-0.001428712	-0.001536765	-0.001016317	-0.002097916	-0.002413595	-0.002621875	15410.45007	-0.002299473	-0.00248569	-0.001563204	-0.002119701
c=	-0.14	-0.15	-0.13	-0.26	-0.06	-0.03	0.00	0.00	-0.06	0.06	-0.11	0.02
fiscal year price change in % from 1995 \$'s/2	1.113208	1.113208	1.113208	1.113208	1.113208	1.113208	1.113208	1.113208	1.113208	1.113208	1.113208	1.113208
transmission costs for ISB /3	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315
	16.22	16.14	15.33	12.76	8.92	8.98	5.35	7.69	7.13	13.84	16.57	18.47
	Oct-99	Nov-99	Dec-99	Jan-00	Feb-00	Mar-00	Apr-00	May-00	Jun-00	Jul-00	Aug-00	Sep-00
a=	20.8664011	21.01210986	21.47847944	-0.002049347	18.97173604	18.77906484	19.22349907	2.421250076	21.76418224	20.48666086	21.36893472	21.62797886
b=	-0.001728517	-0.001611133	-0.001699974	-0.098180969	-0.002840491	-0.00263279	-0.002754028	35192.66977	-0.002626722	-0.002436828	-0.001662551	-0.002479771
c=	-0.09	-0.10	-0.10	0.00	0.03	0.00	0.01	0.00	0.07	0.18	-0.06	0.04
fiscal year price change in % from 1995 \$'s/2	1.147161	1.147161	1.147161	1.147161	1.147161	1.147161	1.147161	1.147161	1.147161	1.147161	1.147161	1.147161
transmission costs for ISB /3	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315
	16.30	16.13	15.56	13.71	11.32	8.11	6.38	9.39	6.50	13.49	16.16	18.47
	Oct-00	Nov-00	Dec-00	Jan-01	Feb-01	Mar-01	Apr-01	May-01	Jun-01	Jul-01	Aug-01	Sep-01
a=	22.06528798	22.47827673	22.56561572	-0.003327144	19.05382359	18.77772648	19.0490852	5.775103559	21.75554272	22.63404381	22.36247751	21.62219754
b=	-0.001835848	-0.00167035	-0.001628912	0.104460656	-0.003462473	-0.003286319	-0.002761965	19758.54796	-0.002578572	-0.002408969	-0.001507928	-0.002123089
c=	-0.11	-0.15	-0.18	0.00	0.15	0.13	-0.01	0.00	0.06	0.03	-0.16	-0.03
fiscal year price change in % from 1995 \$'s/2	1.18387	1.18387	1.18387	1.18387	1.18387	1.18387	1.18387	1.18387	1.18387	1.18387	1.18387	1.18387
transmission costs for ISB /3	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315	2.249315
	16.20	15.95	15.77	13.38	10.83	8.69	6.36	9.62	8.63	13.84	16.31	18.44
/1	These equations calculate price given quantity (q). The calculated price is in 1995 \$'s											
/2	All prices were adjusted to nominal dollars using the 1995 forecast of inflationary trends											
/3	The ISB rate as published in the supplemental rate proposal											

Table B

<b>Table B</b>													
PF rates determined by applying the diurnal firm energy price to the target rate includes transmission, load regulation and load shaping and demand charges													
days/month	31	30	31	31	28	31	30	31	30	31	31	30	365
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
HLH	28.35	28.46	30.22	30.17	29.96	28.94	25.50	13.86	15.70	19.60	28.84	30.40	25.81
LLH	26.68	26.99	26.84	26.35	27.08	27.25	24.31	11.50	12.63	14.85	21.09	25.11	22.52
w eighted average rate	27.63	27.83	28.77	28.53	28.73	28.21	24.99	12.85	14.38	17.56	25.52	28.13	
Diurnally differentiated firm energy cost by month (From table 12 1995 Marginal Cost Analysis Study.):													24.4
HLH	18.75	18.82	19.98	19.96	19.82	19.14	16.87	9.17	10.38	12.96	19.07	20.10	17.07
LLH	17.64	17.85	17.75	17.42	17.91	18.02	16.08	7.61	8.35	9.82	13.95	16.61	14.89
hlh=	0.57												
llh=	0.43												16.13684
total=	1												
PF rate 1/	24.4	0	24.4										
aggregate MCA rate 2/	16.1368409												

TABLE C

TABLE J														1	
assumptions														discount rate =	7.80%
industrial exemptions				700	mws										
capacity factor of plant				100%											
maximum size of outage as percent of plant capacity				5%				5 yr						net present value of losses/6	\$5.11
		fy97	fy98	fy99	fy00	fy01									
probability of outage /6		10%	10%	10%	10%	10%								<b>levelized curtailment cost (\$/MWh) /7</b>	<b>\$1.18</b>
														<b>total fee paid on each MWh not taken /11</b>	<b>\$1.16</b>
BPA sale price to serving utility															
days/month	31	30	31	31	28	31	30	31	30	31	31	31	30	totals/8	365
fy 97	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
MWhs outage 1/	26040	25200	26040	26040	23520	26040	25200	26040	25200	26040	26040	25200	306600		
planned PSW nonfirm sales 2/	-490	-637	-748	-1460	-2190	-2191	-3635	-3435	-3451	-2253	-830	-210			
non-firm sale price 3/	12.95	12.99	14.06	10.37	7.26	6.75	5.30	7.70	7.30	11.66	14.59	16.19	127.13		
weighted average PF rate 4/	27.63	27.83	28.77	28.53	28.73	28.21	24.99	12.85	14.38	17.56	25.52	28.13	24.43		
prob weighted lost rev 5/	\$38,239	\$37,409	\$38,290	\$47,287	\$50,486	\$55,890	\$49,623	\$13,406	\$17,843	\$15,369	\$28,462	\$30,097	\$422,401	\$1	
														1.378	
	31	30	31	31	28	31	30	31	30	31	31	31	30		365
fy 98	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
MWhs outage 1/	26040	25200	26040	26040	23520	26040	25200	26040	25200	26040	26040	25200	306600		
planned PSW nonfirm sales 2/	-286	-187	-677	-1635	-2658	-2392	-4558	-4129	-3928	-2686	-1235	-287			
non-firm sale price 3/	16.10	16.36	15.08	11.27	8.78	8.70	5.00	6.79	6.99	11.10	13.61	15.89	135.67		
weighted average PF rate 4/	27.63	27.83	28.77	28.53	28.73	28.21	24.99	12.85	14.38	17.56	25.52	28.13	293.15		
prob weighted lost rev 5/	\$30,026	\$28,905	\$35,641	\$44,953	\$46,928	\$50,817	\$50,383	\$15,778	\$18,631	\$16,814	\$31,019	\$30,851	\$400,744	\$1	
														1.307	
	31	30	31	31	29	31	30	31	30	31	31	31	30		366
fy 99	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
MWhs outage 1/	26040	25200	26040	26040	24360	26040	25200	26040	25200	26040	26040	25200	307440		
planned PSW nonfirm sales 2/	-139	-100	-493	-1294	-2142	-1905	-4051	-4243	-3902	-2151	-865	-172			
non-firm sale price 3/	15.96	15.71	15.01	11.94	8.78	8.90	5.00	6.92	7.78	12.61	14.84	16.47	139.91		
weighted average PF rate 4/	27.63	27.83	28.77	28.53	28.73	28.21	24.99	12.85	14.38	17.56	25.52	28.13	293.15		
prob weighted lost rev 5/	\$30,391	\$30,545	\$35,832	\$43,199	\$48,603	\$50,295	\$50,383	\$15,442	\$16,633	\$12,899	\$27,817	\$29,399	\$391,435	\$1	
														1.273207418	
	31	30	31	31	28	31	30	31	30	31	31	31	30		365
fy 00	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
MWhs outage 1/	26040	25200	26040	26040	23520	26040	25200	26040	25200	26040	26040	25200	306600		
planned PSW nonfirm sales 2/	-118	-103	-408	-933	-1215	-2170	-3554	-4553	-4156	-2297	-1057	-173			
non-firm sale price 3/	16.88	16.98	16.25	14.03	11.37	8.61	5.99	7.84	8.02	13.12	14.92	17.28	151.29		
weighted average PF rate 4/	27.63	27.83	28.77	28.53	28.73	28.21	24.99	12.85	14.38	17.56	25.52	28.13	293.15		
prob weighted lost rev 5/	\$28,003	\$27,353	\$32,612	\$37,756	\$40,837	\$51,036	\$47,885	\$13,039	\$16,039	\$11,566	\$27,590	\$27,355	\$361,071	\$1	
														1.17765999	
	31	30	31	31	28	31	30	31	30	31	31	31	30		365
fy 01	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
MWhs outage 1/	26040	25200	26040	26040	23520	26040	25200	26040	25200	26040	26040	25200	306600		
planned PSW nonfirm sales 2/	-147	-148	-330	-1058	-1401	-1995	-3562	-4643	-3303	-2151	-988	-187			
non-firm sale price 3/	17.32	17.66	16.17	12.75	10.20	8.31	5.10	6.99	9.65	13.36	15.21	17.27	149.99		
weighted average PF rate 4/	27.63	27.83	28.77	28.53	28.73	28.21	24.99	12.85	14.38	17.56	25.52	28.13	293.15		
prob weighted lost rev 5/	\$26,863	\$25,636	\$32,814	\$41,104	\$43,573	\$51,820	\$50,121	\$15,271	\$11,910	\$10,945	\$26,851	\$27,368	\$364,276	\$1	
														1.18811477	
<b>upside cost</b>															
assumptions														discount rate =	7.80%
industrial exemptions				700	mws										
capacity factor of plant				100%											
maximum size of increase as percent of plant capacity				1%				5 yr						net present value of losses/6	(\$0.10)





assumptions

assumptions									
	there will be 700 mws of industrial curtailment								
	the maximum downward deviation will be 15%								
	the probability of deviations down will be 15% each year								
	the excess energy will be sold on the southwest non-firm market								
	the max upward deviation will be 1%								
	the probability of upward deviation will be 15% each year								
	the energy needed to serve upward deviation will be purchased in the firm southwest market								
	january 31 1996								
	Laurie Nicholes and Kevin O'sullivan Identified additional load that qualifies								
	commercial and any size load								
	Laurie will develop a admin fee								
	Laurie								