EXHIBIT NO. ___(KCH-6T) DOCKET NO. UE-040641/UG-040640 2004 PSE GENERAL RATE CASE WITNESS: KEVIN C. HIGGINS

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,

v.

Docket No. UE-040641 Docket No. UG-040640

PUGET SOUND ENERGY, INC.,

Respondent.

PREFILED CROSS-ANSWER TESTIMONY OF KEVIN C. HIGGINS ON BEHALF OF THE KROGER CO.

November 3, 2004

1	Table of Contents
2	Introduction
3	Cross-Answer to Mr. Lazar

1		CROSS-ANSWER TESTIMONY OF KEVIN C. HIGGINS
2		
3	Intro	oduction
4	Q.	Please state your name and business address.
5	A.	Kevin C. Higgins, 39 Market Street, Suite 200, Salt Lake City, Utah,
6		84101.
7	Q.	By whom are you employed and in what capacity?
8	A.	I am a Principal in the firm of Energy Strategies, LLC. Energy Strategies
9		is a private consulting firm specializing in economic and policy analysis
10		applicable to energy production, transportation, and consumption.
11	Q.	On whose behalf are you testifying in this phase of the proceeding?
12	A.	My testimony is being sponsored by The Kroger Co. ("Kroger") on behalf
13		of its Fred Meyer Stores and Quality Food Centers divisions.
14	Q.	Are you the same Kevin C. Higgins who has pre-filed response testimony in
15		this proceeding on behalf of Kroger?
16	A.	Yes, I am.
17	Q.	What is the purpose of your cross-answer testimony?
18	A.	My cross-answer testimony addresses certain issues pertaining to
19		distribution cost-of-service that were discussed in the pre-filed direct testimony of
20		Jim Lazar, witness for Public Counsel, The Energy Project, and A.W.I.S.H
21	Q.	Please summarize your cross-answer testimony.
22	A.	Mr. Lazar is critical of PSE's treatment of distribution costs in PSE's cost-
23		of-service study. He asserts that the Company's treatment of transformer costs

1		contains a theoretical error that results in a double-counting of some costs.
2		Because of this alleged error, Mr. Lazar concludes that the Company's
3		methodology of directly assigning much of its distribution costs should be
4		rejected. Instead of direct assignment, Mr. Lazar favors using an allocation
5		formula based on class non-coincident peak (NCP) demand.
6		In my cross-answer testimony I demonstrate that there is no double-
7		counting in the Company's treatment of transformer costs. Therefore, any
8		recommendation to reject the Company's approach based on this alleged
9		theoretical error is without justification. PSE's use of information technology to
10		directly assign discrete distribution costs is vastly superior to reliance on an
11		aggregate allocation methodology that, at best, is merely a proxy for direct
12		assignment. Choosing "allocation" over "direct assignment" would be a step
13		backward, as such a choice would purposely ignore available and accessible
14		information, with the result that valuable insight into cost causation would be
15		masked.
16		PSE's methodology for distribution cost-of-service is a significant
17		advancement over the 1992 method and should be accepted.
18		
19	Cross	s-Answer to Mr. Lazar
20	Q.	What objections does Mr. Lazar raise with respect to PSE's methodology for
21		distribution cost-of-service?
22	A.	Mr. Lazar's critique focuses on PSE's method for allocating the cost of
23		transformers. Mr. Lazar states:

1 2 3 4 5 6 7 8 9 10 11		First and foremost, the Company has double-counted the cost of providing transformation to the residential class, by first assigning the costs of approximately 85% of the transformers providing service to a single class directly to that class, and then assigning approximately 70% of the remaining transformer cost to the residential class as well. The theoretical problem with this is that the load served by the directly-assigned transformers needs to be netted out when determining the allocation factors for the residual amount, and the Company does not appear to have done this. The result is to double-count the cost of transformers for the residential class. ¹
12	Q.	Does PSE's methodology double-count the cost of transformers for the
13		residential class?
14	A.	No. In analyzing transformer costs, PSE utilizes its database to identify
15		each of the customers classes served on its 233,000 transformers. In the case of
16		transformers that serve only one class, the costs are directly assigned to the
17		relevant class. The reasonableness of such direct assignment is unassailable. As
18		Mr. Lazar points out, this direct assignment covers 85 percent of PSE's
19		transformers.
20		Mr. Lazar's quarrel is with the remaining 15 percent of transformers,
21		which is where he asserts the double-counting occurs. The inference in Mr.
22		Lazar's testimony is that an allocation takes place with respect to these residual
23		transformers that does not take account of the transformers that have already been
24		directly assigned. The problem with this reasoning, however, is that it
25		misconstrues the manner in which the residual transformers are handled
26		methodologically.

¹ Pre-filed direct testimony of Jim Lazar, p. 23, lines 9-18.

1		As explained in PSE's Response to WUTC Staff Data Request 259,
2		attached as Exhibit No(KCH-7), the cost of the residual transformers is not
3		allocated using an aggregate allocation factor, but is allocated on a transformer-
4		by-transformer basis, as a function of NCP load factor and the <i>class energy</i>
5		consumption for each individual transformer. This is clearly shown in the
6		example on pages 5-6 of Attachment A to the Response. With respect to the
7		residual 15 percent of transformers, costs are allocated to the residential class only
8		to the extent that specific residential customers consume a specific amount of
9		energy on specific transformers. Thus, there is no double-counting of previously-
10		assigned costs. Mr. Lazar's recommendation to reject the Company's approach
11		based on an alleged theoretical error is without justification.
12	Q.	What is your recommendation to the Commission with respect to PSE's
12 13	Q.	What is your recommendation to the Commission with respect to PSE's methodology for allocating distribution costs?
	Q. A.	
13		methodology for allocating distribution costs?
13 14		methodology for allocating distribution costs? PSE's use of information technology to directly assign discretely-
13 14 15		methodology for allocating distribution costs? PSE's use of information technology to directly assign discretely- identifiable distribution costs is vastly superior to reliance on an aggregate
13 14 15 16		methodology for allocating distribution costs? PSE's use of information technology to directly assign discretely- identifiable distribution costs is vastly superior to reliance on an aggregate allocation methodology that, at best, is merely a proxy for direct assignment. With
13 14 15 16 17		methodology for allocating distribution costs? PSE's use of information technology to directly assign discretely- identifiable distribution costs is vastly superior to reliance on an aggregate allocation methodology that, at best, is merely a proxy for direct assignment. With respect to the residual distribution cost components that must be allocated, the
 13 14 15 16 17 18 		methodology for allocating distribution costs? PSE's use of information technology to directly assign discretely- identifiable distribution costs is vastly superior to reliance on an aggregate allocation methodology that, at best, is merely a proxy for direct assignment. With respect to the residual distribution cost components that must be allocated, the allocation method employed by the Company is both rigorous and reasonable.
 13 14 15 16 17 18 19 		methodology for allocating distribution costs? PSE's use of information technology to directly assign discretely- identifiable distribution costs is vastly superior to reliance on an aggregate allocation methodology that, at best, is merely a proxy for direct assignment. With respect to the residual distribution cost components that must be allocated, the allocation method employed by the Company is both rigorous and reasonable. In the case of transformers, PSE's analysis demonstrates that 85 percent of

1		would purposely ignore available and accessible information, with the result that
2		valuable insight into cost causation would be masked.
3		Far from being theoretically flawed, PSE's study of distribution cost-of-
4		service is a commendable analytical effort. It represents a significant
5		advancement over the 1992 method and should be accepted by the Commission.
6	Q.	Does this conclude your cross-answer testimony?
7	A.	Yes, it does.

EXHIBIT NO. ___(KCH-7) DOCKET NO. UE-040641/UG-040640 2004 PSE GENERAL RATE CASE WITNESS: KEVIN C. HIGGINS

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,

v.

Docket No. UE-040641 Docket No. UG-040640

PUGET SOUND ENERGY, INC.,

Respondent.

EXHIBIT TO CROSS-ANSWER TESTIMONY OF KEVIN C. HIGGINS ON BEHALF OF THE KROGER CO.

PSE Response to WUTC Staff Data Request No. 259

November 3, 2004

BEFORE THE WASHINGTON UTILITIES 'AND TRANSPORTATION COMMISSION

Docket Nos. UG-040640 and UE-040641 Puget Sound Energy, Inc.'s General Rate Case for Gas and Electric Operations

WUTC STAFF DATA REQUEST NO. 259

WUTC STAFF DATA REQUEST NO. 259:

Please provide a narrative description of the step-by-step procedure the company undertook for calculating substations, distribution lines, and transformer costs. Provide an example for one substation, one feeder, and one transformer serving one or more classes.

Response:

Please see Puget Sound Energy, Inc.'s ("PSE") Response to WUTC Staff Data Request No. 236 for a narrative description of the step-by-step procedure PSE undertook for calculating substations, distribution lines, and transformer costs. Additional narrative for these steps is provided below. Attached as Attachment A to PSE's Response to WUTC Staff Data Request No. 259, please find example calculations, which are simplified examples and not necessarily the actual data.

Allocation of Substations:

PSE allocated the costs on a substation-by-substation basis using the calculated noncoincident peaks of each class also calculated on a substation-by-substation basis. These factors are calculated using the following steps:

- Calculate class level NCP factors by month and schedule. Load research data are used to calculate class level NCP factors for each month and schedule. These data are entered into arrays and used in a SAS program.
- 2) Calculate the NCP of each class on each substation by month. The calculation starts with the energy use by month, class, and substation. The energy use is converted to a NCP by dividing the average loss-adjusted hourly load by the class monthly NCP factors.

- The SAS program sums the monthly consumption for each class on, each substation based using the database of customer monthly ' consumption which also includes a variable for the primary substation that serves the customer.
- The load by class, month and substation is divided by the appropriate class load factor to determine the class non-coincident peak.
- 3) On a substation-by-substation basis calculate the percentage of the total NCP that is attributable to each rate class. Each class' non-coincident peak on the substation is summed and the class' allocation to the total for each substation is calculated.
- 4) Average the 12 monthly percentage contributions for each class on each substation.
- 5) Multiply the average of the monthly percentage contributions for each class on each substation by the respective costs in accounts 360 362 for each substation. The substation costs used are the net book costs.
- 6) Sum up the costs allocated to each class separately for accounts 360 362. The percentage of each class' cost to the total cost is the resulting allocation factor.

Overhead and Underground Lines

PSE allocated the costs of each feeder using the calculated non-coincident peaks of each class multiplied by the overhead and under ground miles of each feeder. (These factors could have been converted into dollars by multiplying those factors by an average cost per mile of UG and OH lines, but the linear transformation would not change the allocation factor.) These factors are calculated using the following steps:

- Calculate class level NCP factors by month and schedule. Load research data are used to calculate class level NCP factors for each month and schedule. These data are entered into arrays and used in a SAS program.
- 2) Calculate the NCP of each class on each feeder by month..The calculation starts with the energy use by month, class, and feeder. The energy use is converted to a NCP by dividing the average loss-adjusted hourly load by the class monthly NCP factors.

- The SAS program sums"the monthly consumption for each class on each substation based using the database of customer monthly consumption which also includes a variable for the primary substation that serves the customer.
- The load by class, month and feeder is divided by the appropriate class load factor to, determine the class non-coincident peak.
- 3) On a feeder-by-feeder basis calculate the percentage of the total NCP that is attributable to each rate class. Each class' non-coincident peak on the substation is summed and the class' allocation to the total for each substation is calculated.
- 4) Average the 12 monthly NCP loads for each class on each feeder.
- 5) Multiply the average monthly NCP load for each class on each feeder by the respective number of overhead and underground line miles of the feeder.
- 6) Sum up the costs allocated to each class separately for overhead and underground line costs. The percentage of each class' circuit mile weighted load to the total is the resulting allocation factor.

Overhead and Pad Mount Transformers

BA042570.018

PSE allocated the costs of each transformer based upon the classes contribution to the non-coincident peak on the transformer. (Please see PSE's Response to WUTC Data Request No. 122.) The overhead and pad mount allocation factors are calculated using the following steps:

- 1) Calculate class level NCP factors by month and schedule (please see Attachment A to PSE's Response to WUTC Data Request No. 259).
- 2) For each transformer determine the amount of energy use by each rate class using the transformer. This calculation is done by summing the monthly energy used linked to each transformer by month and rate class.
- 3) Calculate the NCP of each class on each transformer by month. The calculation starts with the energy use by month, class, and transformer. The energy use is converted to a NCP by dividing the average loss-adjusted hourly load by the class monthly NCP factors.

- 4) On a transformer-by-transformer basis calculate the percentage of the total NCP that is attributable to each rate class.
- 5) Average the 12 monthly NCP load for each class on each transformer.
- 6) Multiply the average monthly NCP for each class on each transformer by the installed cost of a comparable new transformer.
- 7) Sum up the costs allocated to each class separately for overhead and underground transformers. The percentage of each class allocated transformer cost divided by the total transformer cost is the resulting allocation factor for pad mount and overhead transformers.

Attachment A to PSE's Response to WUTC Staff Data Request No. 259

Step 1: NCP load factors from Load Research

Loss Factors

	Distribution							
_ <u>Schedule</u> _	Losses							
7	0.0739							
24	0.0725							
25	0.0725							
26	0.0725							
29	0.0725							
31	0.0388							
35	0.0388							
43	0.0388							

Weekday NCP load factors

Schedule	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
7	0.510	0.559	0.541	0.528	0.526	0.571	0.597	0.572	0.522	0.487	0.531	0.540
24	0.575	0.576	0.561	0.517	0.490	0.476	0.483	0.484	0.476	0.526	0.579	0.598
25	0.584	0.553	0.563	0.528	0.484	0.505	0.545	0.532	0.537	0.510	0.535	0.569
26	0.599	0.590	0.587	0.553	0.554	0.564	0.577	0.588	0.577	0.597	0.518	0.571
31	0.595	0.575	0.592	0.585	0.589	0.598	0.625	0.624	0.609	0.616	0.585	0.558

Step 2: NCP of Each Class on Substation by Month

Total Energy Consumption on Northrup Substation

Schedule	Jan	Feb	March	April	Мау	June	July	Aug	Sept	Oct	Nov	Dec
7	1,360,360	1,335,893	1,204,290	1,076,670	1,013,232	999,764	928,987	1,008,078	959,888	962,221	1,175,373	1,351,699
24	2,125,828	2,016,166	2,105,645	1,829,465	1,699,038	1,799,161	1,861,664	1,964,975	1,977,824	1,772,752	1,936,056	2,047,828
25	1,874,430	1,862,570	1,882,980	1,689,320	1,637,430	1,760,540	1,813,080	1,852,280	1,904,270	1,775,264	1,812,460	1,877, 880
26	225,840	218,040	199,920	218,880	209,760	235,440	256,920	277,200	269,040	218,520	249,240-	206,880
31	4,499,100	4,472,400	4,294,200	4,546,800	4,524,000	4,935,900	5,259,600	5,027,700	4,711,200	4,611,600	4,490,700	4,384,200

Convert to NCP's by Class

Schedule	Jan	Feb	March	April	Мау	June	July	Aug	Sept	Oct	Nov	Dec
7	3,924	3,516	3,275_	3,000	2,834	2,576	2,289	2,593	2,705	2,907	3,256	3,682
24	5,432	5,143	5,514	5,199	5,094	5,553	5,663	5,965	6,105	4,951	4,913	5,031
25	4,716	4,948	4,914	4,701	4,970	5,122	4,888	5,115	5,210	5,114	4,977	4,849
26	554	543	500	582	556	613	654	693	685	538	707	532
31	10,760	11,068	10,322	11,060	10,930	11,746	11,975	11,466	11,008	10,653	10,924	11,181

Substation Cost Allocation Example

Docket No. UE-040641 Staff Data Request No. 259 Page 2 of 7

Step 3: Calculate percent of substation load attributed to each class

Schedule	Jan	Feb	March	April	Мау	June	July	Aug	Sept	Oct	Nov	Dec
7	15%	14%	13%	12%	12%	10%	9%	10%	11%	12%	13%	15%
24	21%	20%	22%	21%	21%	22%	22%	23%	24%	20%	20%	20%
25	19%	20%	20%	19%	20%	20%	19%	20%	20%	21%	20%	19%
26	2%	2%	2%	2%	2%	2%	3%	3%	3%	2%	3%	2%
31	42%	44%	42%	45%	45%	46%	47%	44%	43%	44%	44%	44%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Step 4: Average the 12 NCPs

Schedule_	Average 12 NCP
7	12%
24	21%
25	20%
26	2%
31	44%

Step 5: Multiple by Substation Net Book Cost

Account Northrup			Schedule	Account 361 Account 361 Account 362						
360	\$	42,046	7	\$	5,113	\$	1,031	\$	71,195	
361	\$	8,477	24	\$	9,016	\$	1,818	\$	125,533	
362	\$	585,407	25	\$	8,320	\$	1,678	\$	115,844	
			26	\$	999	\$	201	\$	13,913	
			31	\$	18,596	\$	3,750	\$	258,922	

Step 1: NCP load factors from Load Research

Loss Factors

Distribution

_Schedule	Losses
7	0.0739
24	0.0725
25	0.0725
26	0.0725
29	0.0725
31	0.0388
35	0.0388
43	0.0388

Weekday NCP load factors

Schedule	Jan	Feb	March	April	Мау	June	July	Aug	Sept	Oct	Nov	Dec
7	0.510	0.559	0.541	0.528	0.526	0.571	0.597	0.572	0.522	0.487	0.531	0.540
24	0.575	0.576	0.561	0.517	0.490	0.476	0.483	0.484	0.476	0.526	0.579	0.598
25	0.584	0.553	0.563	0.528	0.484	0.505	0.545	0.532	0.537	0.510	0.535	0.569
26	0.599	0.590	0.587	0.553	0.554	0.564	0.577	0.588	0.577	0.597	0.518	0.571
31	0.595	0.575	0.592	0.585	0.589	0.598	0.625	0.624	0.609	0.616	0.585	0.558

Step 2: NCP of Each Class on Feeder by Month

Total Energy Consumption on Northrup Circuit #25

Schedule	Jan	Feb	March	April	Мау	June	July	Aug	Sept	Oct	Nov	Dec
7	978,489	960,350	867,927	775,268	731,356	714,515	658,074	714,392	681,095	681,152	835,784	959,801
24	259,093	247,627	255,325	233,448	215,874	243,500	258,902	275,873	228,180	225,999	257,021	263,668
25	368,970	390,810	388,110	369,110	352,050	402,450	419,260	443,480	413,760	348,218	375,410	380,770
26	225,840	218,040	199,920	218,880	209,760	235,440	256,920	277,200	269,040	218,520	249,240	206,880
31	578,400	571,800	553,800	556,800	583,800	684,600	720,000	704,400	634,800	625,800	609,600	587,400

Convert to NCP's by Class

Schedule	Jan	Feb	March	April	Мау	June	July	Aug	Sept	Oct	Nov	Dec
7	2,822	2,527	2,360	2,160	2,045	1,841	1,622	1,837	1,919	2,058	2,315	2,615
24	662	632	669	663	647	752	788	837	704	631	652	648
25	928	1,038	1,013	1,027	1,069	1,171	1,130	_1,225	1,132	1,003	1,031	983
26	554	543	500	582	556	613	654	693	685	538	707	532
31	1,383	1,415	1,331	1,354	1,410	1,629	1,639	1,606	1,483	1,446	1,483	1,498

Line Allocation Example

Docket No. UE-040641 Staff Data Request No. 259 Page 4 of 7

Step 3: Calculate percent of the feeder load attributed to each class

Schedule	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
7	44%	41%	40%	37%	36%	31%	28%	30%	32%	36%	37%	42%
24	10%	10%	11%	11%	11%	13%	14%	14%	12%	11%	11%	10%
25	15%	17%	17%	18%	19%	19%	19%	20%	19%	18%	17%	16%
26	9%	9%	9%	10%	10%	10%	11%	11%	12%	9%	11%	8%
31	22%	23%	23%	23%	25%	27%	28%	26%	25%	25%	24%	24%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Step 4: Average the 12 NCPs

1	Average 12	
Schedule	NCP	
7	36%	
24	12%	
25	18%	
26	10%	
31	25%	

Step 5: Multiple by Overhead and Underground Line Miles

 Miles	NRU-25	Schedule	ОН	UG
OH	2.85	7	1.03	1.58
UG	4.37	24	0.33	0.50
		25	0.51	0.78
		26	0.28	0.43
		31	0.70	1.07

Example Transformer Cost Allocation

Docket No. UE-040641 Staff Data Request No. 259 Page 5 of 7

Step 1: NCP load factors from Load Research

Loss Factors

	Distribution
_ <u>Schedule</u> _	Losses
7	0.0739
24	0.0725
25	0.0725
26	0.0725
29	0.0725
31	0.0388
35	0.0388
43	0.0388

Weekday NCP load factors

Schedule	Jan	Feb	March	April	Мау	June	July	Aug	Sept	Oct	Nov	Dec
7	0.510	0.559	0.541	0.528	0.526	0.571	0.597	0.572	0.522	0.487	0.531	0.540
24	0.575	0.576	0.561	0.517	0.490	.0.476	0.483	0.484	0.476	0.526	0.579	0.598
25	0.584	0.553	0.563	0.528	0.484	- 0.505	0.545	- 0.532	0.537	0.510	0.535	0.569
26	0.599	0.590	0.587	0.553	0.554	0.564	0.577	0.588	0.577	11597	0.518	0.571
31	0.595	0.575	0.592	0.585	0.589	0.598	0.625	0.624	0.609	0.616	0.585	0.558

Step 2: NCP of Each Class on Transformer X by Month

Total Energy Consumption on transformer at TGRID 00000-00000 - 25 kVA pad mount transformer (sample data)

Customer Sche	dule	Jan	Feb	March	April	Мау	June	July	Aug	Sept	Oct	Nov	Dec
3	7	3.433	3.370	3.045	2.720	2.566	2.507	2.309	2.507	2.390	2.390	2.933	3.368
1	24	1.993	1.905	1.964	1.796	1.661	1.873	1.992	2.122	1.755	1.738	1.977	2.028

Step 3: Convert to NCP's by Class

Example Transformer Cost Allocation

Docket No. UE-040641 Staff Data Request No. 259 Page 6 of 7

Schedule	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
7	9.90	8.87	8.28	7.58	7.18	6.46	5.69	6.45	6.73	7.22	8.12	9.17
24	5.09	4.86	5.14	5.10	4.98	5.78	6.06	6.44	5.42	4.86	5.02	4.98

Step 4: Percent of Transformer Attributable to Each Class

Schedule	Jan	Feb	March	April	Мау	June	July	Aug	Sept	Oct	Nov	Dec
7	0.66	0.65	0.62	0.60	0.59	0.53	0.48	0.50	0.55	0.60	0.62	0.65
24	0.34	0.35	0.38	0.40	0.41	0.47	0.52	0.50	0.45	0.40	0.38	0.35

Step 5: Average the 12 Monthly NCP allocations

 Schedule
 Average

 7
 0.59

 24
 0.41

Step 6: Allocate out the transformer cost

25 kVA Padmount: \$1,588.86

	Cost
<u>Schedule</u>	Allocation
7	932.38
24	656.48

Docket No. UE-040641 Staff Data Request No. 259 Page 7 of 7

Example Data

NRU-23 NQ NRU-23 NQ NRU-25 NQ NRU-25 NQ NRU-25 NQ NRU-25 NQ NRU-25 NQ NRU-25 NQ NRU-26 NQ NRU-27 NQ	ATION_NAME DRTHRUP DRTHRUP DRTHRUP DRTHRUP DRTHRUP DRTHRUP DRTHRUP DRTHRUP DRTHRUP DRTHRUP DRTHRUP DRTHRUP DRTHRUP DRTHRUP DRTHRUP DRTHRUP DRTHRUP DRTHRUP DRTHRUP	CIRKV 125 12.5 12.5 12.5 12.5 12.5 12.5 12.5	NUMCUS1 O 284 0 0 874 874 874 874 165 165 165 165 165 165 165 165 165	H_MI 13.3 0 2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85 0.75 0.75 0.75 0.75 1 1 1 1	UG_MI 28.78 0.17 4.37 4.37 4.37 4.37 4.37 3.62 3.62 3.62 3.62 2.52 2.52 2.52	3.52 24	CDRSCUS C 322 107 19 1391 144 2 2 40 279 14 3 3 1228 60	OND KWH 273.649 164.485 294.677 681,152 225.999 348,218 218,520 625.800 5.106 220,785 149,480 3.985,800 2,314 1.161.483 982,889	CONO KWH 329.091 177.467 323.120 835,784 257,021 375,410 249.240 699,600 7.897 261.495 170,560 3.881 100 2,601 1,240,073 943,370	COND KWH 378,947 195,304 354,800 959,801 263,668 380,770 206,880 587,400 9,116 269,149 175,640 3,796,800 3,835 1,319,707 966,670	COND KWH 367,021 196,699 329,960 978,489 255,093 368,970 225,840 578,400 578,400 10,344 283,676 202,640 3,920,700 4,506 1,368,360 972,860	COND KWH 361.603 191,553 342,400 960,350 247,627 390,810 218,040 571,800 9,836 272,234 197,240 3,900,600 4,104 1,304,752 932,120	CONO KWH 322,961 184,186 345,040 867,927 255,325 388,110 199,920 153,800 10,115 273,029 184,960 3,740,400 3,287 1,393,105 964,870	COND KWH 290,535 167,942 302,680 775,268 233,448 369,110 218,880 556,800 8,048 250,688 185,800 3,990,000 2,819 1,177,387 831,730	COND KWH 273,023 165,222 293,440 731,356 215,874 352,050 209,760 583,800 6,550 232,611 189,520 3,940,200 2,303 1,085,331 802,420	CONO KWH 277059 190.949 326,600 402,450 235,440 684,600 5,471 239,476 181,160 2,719 1,125,236 850,330	COND KWH 263.696 192.194 318.120 658.074 256.902 720.000 4.401 243.757 183.800 2.519.600 2.816 1.166.811 891.900	COND KWH 285.459 213.243 333.440 714.392 275.873 443.480 277.200 704.400 4.575 253.213 177.520 4.323.300 3.652 1.222.646 897,840	COND KWH_ONTV_200309 271.307 213.918 342.240 681.095 228.180 413.760 269.040 634.800 4.808 247.364 167.520 4.076.400 2.678 1.288.362 980.750
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