EXHIBIT NO. ___(JKP-17T) DOCKET NO. UE-072300/UG-072301 2007 PSE GENERAL RATE CASE WITNESS: JANET K. PHELPS

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,

v.

Docket No. UE-072300 Docket No. UG-072301

PUGET SOUND ENERGY, INC.,

Respondent.

PREFILED REBUTTAL TESTIMONY (NONCONFIDENTIAL) OF JANET K. PHELPS ON BEHALF OF PUGET SOUND ENERGY, INC.

JULY 3, 2008

PUGET SOUND ENERGY, INC.

PREFILED REBUTTAL TESTIMONY (NONCONFIDENTIAL) OF JANET K. PHELPS

CONTENTS

I.	INT	RODUCTION	1
II.	COS	T OF SERVICE STUDIES	2
	A.	Peak and Average	3
	B.	Allocation of Account 376 Distribution Mains	7
	C.	Peak Demand Allocator	19
	D.	Calculation of Return under Existing Rates	26
	E.	Other Comments on Cost of Service Analysis	28
III.	SEA	TTLE STEAM	29
IV.	RAT	E SPREAD AND RATE DESIGN	36
V.	PRO	POSED TRANSPORTATION TARIFFS	41
VI.	CON	ICLUSION	43

		PUGET SOUND ENERGY, INC.
	PREFILED	REBUTTAL TESTIMONY (NONCONFIDENTIAL) OF JANET K. PHELPS
		I. INTRODUCTION
Q.	Are you the s	ame Janet K. Phelps who provided prefiled direct testimon
	this proceedi	ng on December 3, 2007, and prefiled supplemental direct
	testimony in	this proceeding on April 14, 2008, on behalf of Puget Sound
	Energy, Inc.	("PSE" or "the Company")?
A.	Yes. On Dece	ember 3, 2007, I filed direct testimony, Exhibit No(JKP-17
	and twelve ex	hibits supporting such direct testimony, Exhibit No(JKP-2
	through Exhib	bit No(JKP-13). On April 14, 2008, I filed supplemental d
	testimony, Ex	hibit No(JKP-14T), and two exhibits supporting such direc
	testimony, Ex	hibit No(JKP-15) and Exhibit No(JKP-16).
Q.	Please summ	arize the purpose of your rebuttal testimony.
A.	My rebuttal te	estimony responds to:
	(i)	The prefiled direct testimony of Stanley Gent, Exhibit No(SG-1T), on behalf of Seattle Steam Company ("Seattle Steam");
	(ii)	The prefiled direct testimony of Glenn A. Watkins. Exhibit No(GAW-1TC), on behalf of Public Counsel with respect to gas cost of service, rate spread and rate design;
	(iii)	The prefiled direct testimony of Donald W. Schoenbeck, (DWS-1T), on behalf of Northwest Industrial Gas Users

1		("NWIGU"); and
2 3 4		 (iv) The prefiled direct testimony of Kevin C. Higgins, Exhibit No(KCH-1T), on behalf of Nucor Steel Seattle, Inc. ("Nucor").
5		First, I will address concerns raised by various parties with respect to the cost of
6		service study. Then I will address some assertions made by Seattle Steam in its
7		response testimony, and some issues raised by the parties related to rate spread
8		and rate design. I will address issues related to the proposed new transportation
9		tariffs. Finally, I will provide PSE's perspective on the terms of a settlement
10		agreement between some parties in this proceeding with respect to gas rate spread
11		and rate design, which PSE understands is to be filed with the Commission.
12		II. COST OF SERVICE STUDIES
13	0	What issues related to gas cost of service have been raised in the response
14	~~	tostimony?
14		testimony:
15	А.	Issues have been raised in response testimony regarding the following topics:
15 16 17 18 19 20 21	А.	 (i) The use of a peak and average method as the framework for the cost of service analysis. There appears to be confusion in the response testimony as to what the term "peak and average" means, and there is disagreement about the use of average demand to allocate certain costs to specific customer groups.
 15 16 17 18 19 20 21 22 23 24 25 26 27 	А.	 Issues have been raised in response testimony regarding the following topics: (i) The use of a peak and average method as the framework for the cost of service analysis. There appears to be confusion in the response testimony as to what the term "peak and average" means, and there is disagreement about the use of average demand to allocate certain costs to specific customer groups. (ii) The allocation of Account 376, distribution mains, which is the largest portion of plant included in rate base. There is confusion among the parties about the results of a flow analysis that determined the directly assigned components. And as mentioned above, there are concerns about the use of average demand to allocate a portion of these costs.

1 2 3 4 5		(iii) The definition of peak demand. There are differences as to whether the total system peak should be estimated using historical data or design day conditions. And there are differences regarding the various customer classes' contributions to that peak demand.
6		(iv) The calculation of return under existing rates.
7		(v) The treatment of income taxes.
8		(vi) The inclusion of certain costs in the customer charge.
9	А.	Peak and Average
10	Q.	Please explain what you mean by the term "peak and average" as used in
11		cost of service studies.
12	A.	The idea behind peak and average is that capacity costs – which are fixed costs –
13		are allocated partially based on customer classes' contributions to the system peak
14		and partially based on annual throughput. The plant cost is multiplied by the
15		system load factor to arrive at a cost estimate of the capacity necessary to serve
16		customers based on average consumption over the year. This capacity cost is then
17		allocated to classes based on annual throughput. The remaining portion of the
18		plant costs represents capacity that is in excess of what is necessary to serve
19		average loads, but is in existence to meet peak requirements. This portion is then
20		allocated based on customer classes' contributions to peak demand.
21	Q.	What alternative is there to peak and average?
22	A.	One alternative is the peak responsibility method, in which capacity costs are
23		allocated based on customer classes' contributions to system peak demand only.
	Prefile (Nonc Janet	ed Rebuttal Testimony Exhibit No(JKP-17T) confidential) of Page 3 of 47 K. Phelps

If the peak responsibility method were used, customers who are fully interruptible would receive no assignment of capacity costs, because the system was not sized to serve them on a design day peak and they would be curtailed. PSE offers both firm and interruptible service on Schedules 85, 86, 87 and 57, so those classes would be allocated capacity costs based only on the firm contract demands of customers in those classes.

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Q. Why use peak and average?

8 A. The peak and average approach balances the fact that the system is sized to meet 9 peak demand with the way the system is used on an average basis. Use of the 10 peak and average approach acknowledges the fact that while the system is not 11 sized to serve large interruptible loads, those interruptible customers do use the 12 system and therefore should pay a portion of the costs. The fact that their 13 interruptible loads would be curtailed in the event of a design day peak should not exempt interruptible customers from contributing to capacity costs, since the 14 15 system is used to deliver gas to them, including on many days during the peak 16 season, and they benefit from the system. Simply put, these customers would not 17 be able to receive any interruptible service if the pipes had not been built to serve firm customers; they should not be able to use the mains for free. 18

19 20 Q.

How does the peak and average approach reflect the principle of cost causation?

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A. A strict interpretation of cost causation would indicate use of the peak

1		responsibility method rather than the peak and average method. Peak and average
2		balances the idea of cost causation with the way the system is used.
3	Q.	Why has PSE used peak and average in this proceeding?
4	A.	In previous cases where the Commission has offered guidance on cost allocation,
5		that guidance has indicated that a portion of capacity costs should be allocated
6		based on consumption rather than peak demand. The Company does not have a
7		compelling reason to propose a methodology contrary to this guidance.
8	Q.	You stated that there appears to be some confusion about what peak and
9		average means. Please explain your understanding of the confusion.
10	А.	Mr. Stanley Gent, on behalf of Seattle Steam, presents a discussion of the
11		allocation of mains in the Company's 2004, 2006 and 2007 rate cases and,
12		referring to the present case, argues: "The cost allocation for the 'average' day,
13		however, was completely without justification." Exhibit (SG-1T), p. 29, l. 4-5.
14		On the next page at lines 9-10, Mr. Gent states: "Had the Company done a true
15		peak and average analysis for its largest customers, such as it did in its 2006 cost
16		of service study, we believe much of the cost attributable to the largest customer
17		classes would have been related to serving the firm demand." I will explain later
18		in my testimony some shortcomings that, in hindsight, PSE has identified with the
19		2006 methodology and that argue against its use in this case. There seems to be a
20		fundamental misunderstanding of the peak and average concept, which is that
21		capacity costs are allocated partially on the basis of peak and partially on the

	basic of throughout DCE's approach in the current proceeding is more consistent.
	basis of throughput. PSE's approach in the current proceeding is more consistent
	with the peak and average method than the 2006 approach as recommended by
	Mr. Gent. Nucor witness Kevin Higgins seems to have a similar
	misunderstanding of the peak and average concept, based on a review of his
	workpapers. I will address his analysis later in my testimony.
	The Company's approach in this proceeding is a peak and average approach.
	Public Counsel has argued in this proceeding that the Company's approach is
	actually biased in favor of large customers. See Exhibit No(GAW-1TC) page
	52, lines 11-12 and 19-20. Indeed, if PSE had done a peak and average analysis
	without the directly assigned component to large customers, as Public Counsel
	proposes, there would be even greater costs assigned to large customers.
Q.	How does the mixing of firm and interruptible customers on the
	"interruptible" schedules impact customers in the cost of service process?
A.	PSE does not have a tariff for customers that are exclusively interruptible.
	Schedules 85, 86, 87 and 57 offer both firm and interruptible service. Many
	customers on those schedules have firmed a portion, or all, of their load. The
	Company's gas planning model, SynerGEE, showed that gas does flow to
	customers in those schedules even under design day conditions. It is not
	reasonable to treat every customer individually for cost of service and rate design
	reasonable to treat every customer individually for cost of service and rate design purposes, so customers are grouped together.
	reasonable to treat every customer individually for cost of service and rate design purposes, so customers are grouped together. Customers in these classes who have firmed up a portion of their load are

1		responsible for some costs based on their peak demands. Under design day peak
2		conditions the Company would still be obligated to serve those customers at their
3		contract levels. Therefore, these classes should receive some costs based on peak
4		demand.
5		If all demand related costs were recovered through demand charges, which are
6		charged based on the firm portion of load (contract demand) the allocation of
7		costs based on peak would not impact customers who have no contract demand
8		and thus are fully interruptible. But as Mr. Gent correctly points out, PSE's
9		demand charges are not high enough to fully recover these costs. PSE proposed a
10		50 percent increase in the demand charge to these classes in this proceeding to
11		address this issue.
12	В.	Allocation of Account 376 Distribution Mains
13	Q.	Please explain PSE's approach to allocation of mains in the 2004, 2006 and
14		2007 general rate cases.
15	A.	Exhibit No(JKP-18) provides visual representations of the allocation of mains
16		in each of the last three cases. I will discuss these studies in the context of the
17		following discussion on the allocation of mains in the current proceeding.
	Prefil (Nonc	ed Rebuttal Testimony Exhibit No(JKP-17T) confidential) of Page 7 of 47

Q. Is it true that mains less than four inches in diameter "play no part" in serving customers on Schedules 87 and 57, as asserted by Mr. Gent at Exhibit No.__(SG-1T), page 24 lines 18-19?

4 A. No. The gas distribution system is more complicated than Seattle Steam and 5 other parties representing large customers assert in their testimony. NWIGU 6 witness Mr. Donald Schoenbeck claims, at page 7 lines 21 through page 8 line 10 7 of Exhibit No. (DWS-1T), that "only six percent of total annual throughput 8 delivered to Schedule 85, 87 and 57 customers goes through mains that are less 9 than 4 inches in diameter." His statement represents a misunderstanding of data 10 provided by PSE in response to Seattle Steam's Data Request Nos. 9 through 11. 11 In those data requests, PSE was asked to provide a list of customers whose 12 service lines are connected to distribution main that is smaller than four inches in 13 diameter, with their annual volume. In reality, just because a customer's service 14 line is physically connected to, for example, six-inch main does not mean that gas 15 does not flow through two-inch main en route to the customer's service line. The 16 path the gas takes is a function of other things beyond the diameter of main to 17 which the customer is physically connected (i.e., the location and size of the 18 customer's load; location and size of all customers' loads on the system; pressure 19 at various points on the system; and the length and diameter of all segments of 20 pipe).

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The assertion by various parties that large customers do not use small main was based on a faulty interpretation of the results of the flow analysis used by PSE to identify directly assigned costs.

Q. Please explain the flow analysis used to develop the costs that were directly assigned to large customers in the present case.

4 A. I discussed that analysis at some length in my direct testimony. I will add that the 5 purpose of the SynerGEE software used to conduct the flow analysis is to predict 6 pressure in PSE's distribution system. It also allows the user to trace the flow of 7 gas through various segments of pipe from the city gate to the customer's location 8 at a point in time under certain assumptions. The analysis conducted for the cost 9 of service study was based on assumed loads under design day conditions. The 10 Company's design day has an average daily temperature of 13 degrees, and an 11 hourly low temperature of 10 degrees. The flow analysis was conducted for one 12 hour based on this 10-degree temperature. For the large customers specifically 13 examined, their hourly contract demands were assumed. For all other customers, 14 estimates of loads based on historical usage patterns and weather sensitivity were 15 assumed.

Because the main identified in this flow analysis is limited to flow during just one
hour, it does not represent large customers' full usage of the system. The model
results are used in the context of a peak and average allocation method, in which
the peak is defined based on how the Company designs its system (design day), as
modeled by SynerGEE, and the average is based on annual throughput.

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Parties in this case have taken this flow analysis to say that the only small main

1 ever used to serve large customers – or that provides any benefit to those large 2 customers – is the equivalent footage that was identified by the model based on 3 that 10-degree hour. This is an unreasonable interpretation of the analysis. 4 When the SynerGEE model is run using different load and temperature 5 assumptions, it yields different results as to the equivalent footage of main 6 through which gas flows en route to large customers. To illustrate this fact, 7 summary results from three examples of the model output are provided in Table 1 8 below. This table summarizes the equivalent footage of main used to transport 9 the gas used by the large customers, assuming a 10-degree temperature. It also 10 provides similar results based on a winter day with a 41-degree temperature, and 11 results based on a summer day with a 65-degree temperature. Equivalent footage 12 is the length of main through which gas flows, adjusted for the customers' portion 13 of gas using it. For example, if a large customer's gas flows through a 10-foot 14 stretch of main and accounts for 100 percent of the gas in that stretch, 10 15 equivalent feet are counted. But if that customer's gas accounts for only half of 16 the gas in that stretch of pipe, then five equivalent feet are counted. The results 17 presented in Table 1 indicate that not only does the total amount of pipe "used 18 by" the large customers vary based on the temperature, but their use of small main 19 also varies. This information is provided as an illustration that the flow analysis 20 used by PSE is limited and should not be interpreted – as it has been by some 21 parties in this proceeding – to state that large customers do not use small main 22 and therefore should be exempt from paying for any of it. All gas customers are

connected to a system that works as a whole.

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Main Size	10 Degrees F	41 Degrees F	65 Degrees F
Less than 4 inch	27,920	210,830	638,944
Greater than or equal to 4 inch	210,518	1,007,438	1,605,495
Total	238,438	1,218,268	2,244,439

Table 1: Summary of Equivalent Footage Utilizedby Large Customers Based on Three Temperature Assumptions

4 Q. Is the flow analysis based on 41 degrees, as utilized by NWIGU, appropriate 5 for use in this case?

6	А.	For purposes of the cost of service study, the flow analysis utilized by NWIGU is
7		inferior to the flow analysis undertaken by PSE in this proceeding. Mr.
8		Schoenbeck used a flow analysis based on a 41-degree temperature. His analysis
9		is similar to that done by PSE in Docket No. UG-040640. A chart of that
10		approach is on page 2 of Exhibit No(JKP-18). Using that approach, large
11		customers are assigned costs related only to the results of the flow analysis at a
12		41-degree temperature. These results serve as a proxy for a peak and average.
13		Instead of defining the peak based on the system's design as PSE has done in the
14		current proceeding, the peak is defined based on a winter day. And, this winter
15		day serves as both the peak and the average pieces of the peak and average
16		approach – there is no additional cost assignment to these classes based on
17		throughput as there is in PSE's approach, where the peak is a design peak and the
18		average is based on throughput.

1	There are three primary drawbacks to NWIGUs approach. First, a winter day is a
2	poor substitute for either a design day peak or for average consumption
3	throughout the year. NWIGU's analysis concludes that the costs of main
4	specifically identified by the flow analysis on a winter day are the only costs large
5	customers should be responsible for. Under NWIGU's approach, all other
6	customers pay some costs based on their average consumption, but the largest
7	customers do not.
8	Second, as Public Counsel witness Mr. Watkins points out, assumptions must be
9	made to conduct the flow analysis, and these assumptions are more complicated
10	when any weather conditions other than those related to a design day peak are
11	used. The primary assumptions have to do with load. Load for large customers is
12	very clear on a design day such as PSE used in its analysis – the firm contract
13	demands the Company is obligated to serve are included, and because under those
14	conditions the interruptible portions of those customers' loads would be curtailed,
15	no interruptible volumes are included. On a winter day without curtailment, such
16	as used by NWIGU, loads by customer have to be estimated based on a
17	combination of historical load data and interruptible volumes stated in customers'
18	contracts. This process of estimating loads is much less clear under these
19	conditions and is one of the limitations of using the SynerGEE model.
20	Third, NWIGU's approach contains inconsistencies between the treatment of
21	large customers and customers in all other classes with respect to the peak
22	demand allocator. For all other classes, demand is defined based on the
	Prefiled Rebuttal Testimony Exhibit No(JKP-17T) (Nonconfidential) of Page 12 of 47 Janet K. Phelps

1		customer's estima	ted contributi	ion to design day peak	. For the larg	ge customers,
2		there is neither a true peak nor a true average.				
3	0.	Seattle Steam recommended using the approach that was used in U.G.060267				
			Seattle Steam recommended using the approach that was used in CC-000207.			
4		Why did PSE no	t use that me	ethod?		
5	A.	Seattle Steam pro	vided a sumn	nary of the allocation of	of Account 37	76 from PSE's
6		2001, 2004, 2006	and 2007 cas	ses in Exhibit No(SG-4T). The	cost allocations
7		to Schedules 85, 8	87, 57 and spe	ecial contracts from the	ese studies ar	re presented in
8		Table 2.				
9 10		Table 2: Allocation of Account 376 toLarge Customers in Recent Rate Cases				
			General Rate Case	Cost Allocation to Schedules 85, 87, 57, Special Contracts	Percent of Total Cost	
			2001	\$52,971,747	9.3%	
			2004	\$50,894,934	7.4%	
			2006	\$36,542,699	4.7%	
			2007	\$70,025,889	6.8%	
11		This information	indicates that	2006 results were out	of line with	cost allocations
12		from other recent	cases. It also	o indicates that PSE's 2	2007 results a	are not
13		unreasonable in th	he context of	previous cases. In the	2006 case, a	separate flow
14		analysis was not o	conducted due	e to time constraints.	Гhe approach	was similar to
15		that used in the C	ompany's 20	01 case, where the dire	ect assignmer	nt included only
16		main less than for	ur inches, and	large customers receiv	ved a general	allocation of
17		large main along	with all other	classes. Data from the	e flow analys	sis conducted in
18		the 2004 case we	re used to ide	ntify small main that w	vas dedicated	to serving
	Prefiled Rebuttal Testimony Exhibit No(JKP-17T)					

individual customers who were still on the system during the test year being used in the 2006 case. Because it was not clear how to allocate segments of main that were shared by customers of different classes, only segments dedicated to serving a single customer were included. This restriction caused a reduction in the cost assignment to large customers that, in hindsight, appears inappropriate. A chart of this approach is presented on page 3 of Exhibit No.___(JKP-18).

Q. How do large customers benefit from the whole system, beyond the equivalent footage identified by the flow analysis?

9 Improvements to capacity and reliability of the gas system have reduced planned A. 10 curtailments to interruptible customers. The number of curtailments planned for 11 various predicted system temperatures is one indicator of the system's ability to 12 serve its firm and interruptible customers. At a given temperature, planned 13 curtailments to interruptible customers have declined over the last three years due 14 to investments in system capacity and reliability. These improvements in service 15 are reflected in the temperature at which curtailments are required. The 16 temperatures at which partial and full curtailments would be required have 17 declined, which indicates PSE is able to serve interruptible customers at colder temperatures than in the past. Whereas at the start of the 2004-2005 winter full 18 19 interruptible customer curtailment might have been required at 23 degrees 20 Fahrenheit, in 2007-2008 full interruptible customer curtailment was not required 21 until the predicted temperatures were significantly cooler. Not only did the level 22 at which full curtailments occur improve for all interruptible customers, but it also

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1		allowed partial curtailments to occur at temperatures that previously required full
2		curtailments. All customers have benefited from this system capacity and
3		reliability improvement.
4		Even when improvements to capacity and reliability do not reduce curtailments.
5		they do help prevent an increase in curtailments to these interruptible customers.
6		Without these capacity improvements, in general, the level of curtailments would
7		increase over the years to potentially unacceptable levels at warmer weather
8		curtailments. With these system improvements, the temperature at which partial
9		and full curtailment is required has declined.
10		All customers continue to benefit from the economies of scale associated with
11		having a large interrelated distribution system that serves many customers rather
12		than a small one that serves only a few customers.
10		
13	Q.	Please address Nucor's proposed allocation of Account 376 mains costs.
14	A.	Nucor witness Kevin Higgins divides the plant into small (less than four inches
15		diameter) and large main. His proposed allocation of large main contains some
16		errors that cause fewer costs to be allocated to the large customers than would be
17		if the errors were corrected.
18	Q.	What errors does Nucor make in its allocation of large main?
19	A.	There are two errors. First, when Mr. Higgins divides the plant into small and
20		large main, he incorrectly calculates that 42.7% of the Company's mains costs are
	Prefil (Nono Janet	ed Rebuttal Testimony Exhibit No(JKP-17T) confidential) of Page 15 of 47 K. Phelps

elated to small diameter mains by using an incomplete listing of mains plant. he Company's mains plant, brought to 2007 dollars by use of the Handy- /hitman Index, is \$2,071,111,014, rather than the \$1,335,893,771 used by Mr. figgins. Small diameter pipe make up 46.0% of total 2007 mains costs, not the 2.7% calculated by Mr. Higgins. Mr. Higgins' figure excludes some pipe types wen though the complete plant data that should have been used to make this eparation was provided to Nucor on March 7 in PSE's Response to Public ounsel Data Request No. 563. econd, he allocates the large mains costs using the Company's filed peak and werage mains allocation factor, PA_MAINS. This is a composite allocation actor that incorporates both the peak and average elements in addition to the irect allocation of mains costs to Schedules 85, 87, 57 and special contracts for se on mains plant as a whole. It cannot be used for an allocation of a subset of
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se on manis plant as a whole. It cannot be ased for an anocation of a subset of
e mains costs without adjustment. Before using this factor for allocation of
rge mains costs, Mr. Higgins should have adjusted this factor to include only
rge diameter costs. In failing to adjust the PA_MAINS factor, Mr. Higgins
nder-allocates costs to Schedules 85, 87, 57, and special contracts.
lease address Nucor's proposed allocation of costs associated with small
ains.
t page 11, lines 21-23 of his testimony, Mr. Higgins describes his approach as
constraining the allocation of small mains to Schedules 85, 87, 57, and special

1		contract customers to the amount of small mains directly assigned to these
2		customers in the allocation of peak demand." His allocation could more
3		accurately be described as "peak and half-peak" instead of peak and average. He
4		calculates \$153,929 as the portion of small main costs to be allocated to large
5		customers based on average usage. This is approximately half the amount of
6		small main identified in the flow analysis assuming peak conditions. Mr. Higgins
7		imputed a level of costs for Schedules 85, 87, 57 and special contracts by dividing
8		the value of the directly assigned component, $313,123$, by the ratio of $67\%/33\%$.
9		This ratio is the opposite of the load factor divided by the load factor. Mr.
10		Higgins provides no explanation of why he used this ratio or why this calculation
11		represents an appropriate apportionment of the average usage costs.
12	Q.	What concerns do you have about this assignment of small mains?
12 13	Q. A.	What concerns do you have about this assignment of small mains? I have two concerns. First, Mr. Higgins provides no basis for his choice to
12 13 14	Q. A.	What concerns do you have about this assignment of small mains? I have two concerns. First, Mr. Higgins provides no basis for his choice to constrain the average allocation to half the peak related costs. Second, the flow
12 13 14 15	Q. A.	What concerns do you have about this assignment of small mains? I have two concerns. First, Mr. Higgins provides no basis for his choice to constrain the average allocation to half the peak related costs. Second, the flow analysis used by PSE is based on a design day peak, when all interruptible loads
12 13 14 15 16	Q. A.	What concerns do you have about this assignment of small mains? I have two concerns. First, Mr. Higgins provides no basis for his choice to constrain the average allocation to half the peak related costs. Second, the flow analysis used by PSE is based on a design day peak, when all interruptible loads are curtailed. Therefore, it cannot be said to represent the use of large customers
12 13 14 15 16 17	Q. A.	What concerns do you have about this assignment of small mains? I have two concerns. First, Mr. Higgins provides no basis for his choice to constrain the average allocation to half the peak related costs. Second, the flow analysis used by PSE is based on a design day peak, when all interruptible loads are curtailed. Therefore, it cannot be said to represent the use of large customers on an average basis over the year, which is what the average component should
12 13 14 15 16 17 18	Q. A.	What concerns do you have about this assignment of small mains? I have two concerns. First, Mr. Higgins provides no basis for his choice to constrain the average allocation to half the peak related costs. Second, the flow analysis used by PSE is based on a design day peak, when all interruptible loads are curtailed. Therefore, it cannot be said to represent the use of large customers on an average basis over the year, which is what the average component should do. As I illustrated earlier in my testimony and in Table 1, the results of the
12 13 14 15 16 17 18 19	Q. A.	What concerns do you have about this assignment of small mains? I have two concerns. First, Mr. Higgins provides no basis for his choice to constrain the average allocation to half the peak related costs. Second, the flow analysis used by PSE is based on a design day peak, when all interruptible loads are curtailed. Therefore, it cannot be said to represent the use of large customers on an average basis over the year, which is what the average component should do. As I illustrated earlier in my testimony and in Table 1, the results of the SynerGEE analysis vary based on what weather assumptions are used. These
 12 13 14 15 16 17 18 19 20 	Q. A.	What concerns do you have about this assignment of small mains?I have two concerns. First, Mr. Higgins provides no basis for his choice toconstrain the average allocation to half the peak related costs. Second, the flowanalysis used by PSE is based on a design day peak, when all interruptible loadsare curtailed. Therefore, it cannot be said to represent the use of large customerson an average basis over the year, which is what the average component shoulddo. As I illustrated earlier in my testimony and in Table 1, the results of theSynerGEE analysis vary based on what weather assumptions are used. Theseresults indicate that the foundation for Mr. Higgins adjustment, that large
 12 13 14 15 16 17 18 19 20 21 	Q. A.	What concerns do you have about this assignment of small mains?I have two concerns. First, Mr. Higgins provides no basis for his choice toconstrain the average allocation to half the peak related costs. Second, the flowanalysis used by PSE is based on a design day peak, when all interruptible loadsare curtailed. Therefore, it cannot be said to represent the use of large customerson an average basis over the year, which is what the average component shoulddo. As I illustrated earlier in my testimony and in Table 1, the results of theSynerGEE analysis vary based on what weather assumptions are used. Theseresults indicate that the foundation for Mr. Higgins adjustment, that largecustomers "fundamentally do not use" small main (Exhibit No(KCH-1T),

Q.	Have you prepared an exhibit that illustrates Nucor's proposed allocation of
	Account 376?
A.	Yes. Exhibit No(JKP-19) contains a chart of Mr. Higgins' approach that is
	similar to the charts related to PSE's current and past cases provided in Exhibit
	No(JKP-18).
Q.	What other comments do you have regarding Mr. Higgins testimony?
A.	At page 11, lines 3-6 of Exhibit No(KCH-1T), Nucor states that in the
	Company's 2006 case "there was neither a direct assignment of small mains costs
	to Schedules 85, 87, 57 and special contract customers, nor an allocation of small
	mains costs to these customers." This statement is incorrect. PSE's filed cost of
	service study in Docket Nos. UE-060266 and UG-060267 did include a directly
	assigned component of small mains to those customer classes.
Q.	What other comments do you have regarding Mr. Higgins testimony?
A.	Given the errors and concerns I have pointed out regarding Mr. Higgins' analysis,
	his modification to PSE's cost of service study should be rejected.
Q.	Why is PSE's approach in the present case superior to the approaches used
	in previous cases?
A.	PSE's approach is an attempt to work within the framework previously
	established by the Commission, which is to use a peak and average approach with
	a directly assigned component to large customers. The specific application of

1		those ideas has evolved over time as the Company has become able to use
2		planning tools for cost of service purposes and has had time to evaluate its
3		previous analyses. The proposed approach uses an estimate of peak that is
4		consistent with the way the Company designs its system, and thus incurs costs. It
5		overtly allocates a portion of costs based on average annual usage to all
6		customers, without exempting certain customers simply because they would be
7		curtailed on an extremely cold day. This average allocation reflects the fact that
8		all customers benefit from the system year-round, and it does not limit large
9		customers' cost assignment based on a single winter month – though it does
10		recognize the inferior value of interruptible therms by using minimum volumes
11		instead of total annual volumes for large customers. A chart of the Company's
12		approach is on page 1 of Exhibit No(JKP-18).
10	G	
13	C.	Peak Demand Allocator
14	Q.	Please explain how you arrived at your estimate of peak demand as used in
15		the cost of service study.
16	A.	In general, there are four components to the Company's daily load. These four
17		components are firm sales, firm transportation, interruptible sales, and
18		interruptible transportation. Because the Company's peak estimate for the cost of
19		service study is based on a design day, which has an average daily temperature of
20		13 degrees when all interruptible volumes would be curtailed, the Company's
21		peak estimate includes only firm sales and firm transportation. The peak demand

1	for firm sales was estimated using regression equations based on 52 heating
2	degree days ("HDD"), which is consistent with the 13-degree average daily
3	temperature, and weather normalized throughput for the test year. These
4	equations were developed by looking at the historical relationship between
5	throughput, weather, and peak demand. The coefficients in these equations were
6	applied to test year volumes based on 52 HDD to estimate firm sales on a design
7	day. The resulting estimate included only the firm portion of sales to interruptible
8	schedules (Schedules 85, 86 and 87) as well as sales to all other classes. The firm
9	transportation contribution to peak demand was assumed to be the daily firm
10	throughput specified in transportation customers' service agreements – this is
11	capacity the Company is obligated to provide at all times, including on peak days.
12	The sum of firm sales and firm transportation is the estimated system peak day
13	demand of 9,012,895 therms.
14	The system load factor was calculated based on this estimate of peak demand and
15	weather normalized annual volume. The resulting 33 percent load factor was
16	used to divide these demand-related costs into peak demand and average demand
17	for purposes of allocating the costs to customer classes. This resulted in these
18	costs being allocated 33 percent on average demand and 67 percent on peak
19	demand.

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Q.

What criticisms of your peak demand estimate have been made in this proceeding?

3 At page 54 lines 16-17 of his testimony, Mr. Watkins claims that the design day A. 4 concept has been rejected by the Commission in past cases, but he fails to provide 5 specific references to support his argument. In the Commission's Order 08 in Dockets UE-060266 and UG-060267 at paragraph 133, the Commission explicitly 6 7 stated it had no opinion on the subject of design day. At paragraph 135 of the 8 same order, in its discussion of rate spread the Commission stated "the 9 Company's case is, on balance, the stronger and more principled approach. We 10 find it reasonable for purposes of determining rates in this proceeding." While the Commission stated no opinion with regard to design day, it did allow the 11 12 Company's cost of service study to be used as the basis for making rates. This is 13 not a rejection of the design day concept as Mr. Watkins describes it. This 14 Commission order is the most recent related to PSE's gas cost of service study. 15 Q. At page 55 lines 5-12 of his testimony, Mr. Watkins states that PSE's peak 16 estimate does not match that presented in the Company's 2007 Integrated 17 Resource Plan ("IRP"). Please comment on this. 18 The method used to estimate the firm sales peak in this proceeding is the same A. 19 method used in the IRP. Figure 4-16 of the IRP presents estimated firm sales

peak of 9,363,205 therms in 2007. The Company's estimate in this proceeding of

8,838,626 is 5.6 percent below the IRP figure. The difference is explained by the

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Prefiled Rebuttal Testimony (Nonconfidential) of Janet K. Phelps

1		fact that the figures in the IRP were based on the Company's load forecast at that
2		time, and the current estimate is based on historical load for the test year in this
3		proceeding.
4	0	What other comments does Mr. Watking make with respect to your peak
5	Q.	demand estimate?
3		demand estimate:
6	А.	On pages 55 and 56 of his testimony, Mr. Watkins correctly summarizes the
7		methodology PSE used to allocate the peak to customer classes. On page 56
8		(lines 10-15), he criticizes this approach by saying that classes other than
9		residential (Schedule 23) and commercial/industrial (Schedules 31) are weather
10		sensitive. And, he presents monthly usage for interruptible Schedules 85, 86 and
11		87 as evidence that these classes should receive a larger allocation of the peak
12		demand. (Incidentally, the weather normalized usage for Schedule 87 in July
13		2007 presented in Mr. Watkins' Table 18 is incorrect. The correct usage is 1,877
14		thousand therms rather than 878 as presented in Table 18.)
15	0.	Please comment on weather sensitivity.
16	А.	Mr. Watkins fails to recognize that on a peak day with a low temperature of 10
17		degrees, Schedules 85, 86 and 87 would experience full curtailment. The billed
18		demands used for those customers for the test year are contract amounts, which
19		the Company is obligated to provide at all times. Any amounts above the firm
20		contract amounts would not be provided. A weather event resulting in a 10-
21		degree low temperature would most likely result in curtailments that lasted a full

1		day or even longer. Any weather sensitivity of interruptible customers is
2		irrelevant in this scenario, because interruptible customers would be fully
3		curtailed.
4	Q.	Please comment on Mr. Watkins' criticisms.
5	A.	PSE's peak demand estimate has the following attributes:
6		• It is based on actual firm sendout in the test year.
7 8		• It utilizes the planning standard of 52 HDD in conjunction with test year sendout.
9 10 11		• It is developed using the same method used in the IRP. Load is forecasted, then peak is estimated based on volume and 52 HDD.
12 13 14 15		• It is similar in magnitude to 2007 levels in the IRP. Mr. Watkins comments that it differs from the levels in the IRP, but he fails to note that PSE's peak estimate in this case is very close in magnitude to the levels presented in the IRP.
16 17 18		• It is superior to a historical peak for use in the context of a peak and average method, where the average allocation accounts for the average annual use of the system.
19	Q.	What other estimates of peak demand have been proposed in this
20		proceeding?
21	A.	Mr. Watkins has proposed an alternative to PSE's peak demand estimate based
22		partially on historical data and partially on contract demands. His estimate of
23		peak day is 645,176 dekatherms, a reduction of 28 percent from PSE's estimate of
24		901,290 dekatherms.
	Prefil (None Janet	ed Rebuttal Testimony Exhibit No(JKP-17T) confidential) of Page 23 of 47 K. Phelps

1	Q.	At page 58 lines 12-13, Mr. Watkins states that interruptible loads were not
2		curtailed during PSE's actual peak days. Is that correct?
3	А.	No. There were partial curtailments on four of the five days Mr. Watkins used in
4		his analysis.
5	Q.	How did Mr. Watkins allocate the peak demand estimate to customer
6		classes?
7	А.	He allocated the full reduction in peak from PSE's estimate to the residential and
8		commercial/industrial classes.
9	Q.	Please comment on Mr. Watkins' peak demand estimate.
10	А.	He provided no theoretical grounds for allocating costs based on historical peak
11		data rather than the day for which the system was designed. As discussed in my
12		direct testimony, historical peaks do not reflect the costs to PSE of having the
13		ability to serve load on very cold days. In the context of a peak and average cost
14		of service study, where a large portion of fixed costs are allocated based on
15		annual throughput, it is particularly important that the peak estimate be based on
16		the cost causation principle.
17		In fact, Mr. Watkins' peak is a hybrid of the design day and historical data,
18		because he assumed full curtailment of interruptible volumes, but his system peak
19		is much lower than would be experienced in weather conditions that required full
20		curtailment. His peak estimate is representative of neither PSE's design day nor

	its historical peaks. If he had used a	Ill the load data presented in				
	testimony his peak would have been	more consistent with histori				
	This would have produced a load fa	ctor of 40.8 percent as compa				
	percent.					
Q.	What other evidence is there that	Mr. Watkins' peak estimat				
	questionable?					
A.	Mr. Watkins' peak is based on histo	rical data, and as such it show				
	to produce a system load factor cons	sistent with historical experie				
	his 46 percent load factor is higher than PSE has experienced historically. Load					
	his 46 percent load factor is higher t	han PSE has experienced his				
	his 46 percent load factor is higher t factors based on actual average dail	han PSE has experienced his y load and actual peak day lo				
	his 46 percent load factor is higher to factors based on actual average daily five years and the test year are prese	han PSE has experienced his y load and actual peak day lo ented in Table 3 below.				
	his 46 percent load factor is higher to factors based on actual average daily five years and the test year are prese Table 3: Comparison Public Co	han PSE has experienced his y load and actual peak day lo ented in Table 3 below. of Historical Load Factors ounsel Load Factor				
	his 46 percent load factor is higher to factors based on actual average daily five years and the test year are prese Table 3: Comparison Public Co Period	han PSE has experienced his y load and actual peak day lo ented in Table 3 below. of Historical Load Factors ounsel Load Factor Load Factor				
	his 46 percent load factor is higher to factors based on actual average daily five years and the test year are prese Table 3: Comparison Public Co 2003	han PSE has experienced his y load and actual peak day lo ented in Table 3 below. of Historical Load Factors ounsel Load Factor Load Factor 44.5%				
	his 46 percent load factor is higher to factors based on actual average daily five years and the test year are prese Table 3: Comparison Public Co Period 2003 2004	han PSE has experienced his y load and actual peak day lo ented in Table 3 below. of Historical Load Factors ounsel Load Factor 44.5% 38.2%				
	his 46 percent load factor is higher to factors based on actual average daily five years and the test year are prese Table 3: Comparison Public Co 2003 2004 2005	han PSE has experienced his y load and actual peak day lo ented in Table 3 below. of Historical Load Factors ounsel Load Factor 44.5% 38.2% 42.0%				
	his 46 percent load factor is higher to factors based on actual average daily five years and the test year are prese Table 3: Comparison Public Co Period 2003 2004 2005 2006	han PSE has experienced his y load and actual peak day lo ented in Table 3 below. of Historical Load Factors ounsel Load Factor 44.5% 38.2% 42.0% 39.6%				
	his 46 percent load factor is higher to factors based on actual average daily five years and the test year are prese Table 3: Comparison Public Co Period 2003 2004 2005 2006 2007	han PSE has experienced his y load and actual peak day lo ented in Table 3 below. of Historical Load Factors ounsel Load Factor 44.5% 38.2% 42.0% 39.6% 41.2%				
	his 46 percent load factor is higher to factors based on actual average daily five years and the test year are prese Table 3: Comparison Public Co 2003 2004 2005 2006 2007 2003-2007 Average	han PSE has experienced his y load and actual peak day lo ented in Table 3 below. of Historical Load Factors ounsel Load Factor 44.5% 38.2% 42.0% 39.6% 41.2% 41.0%				
	his 46 percent load factor is higher to factors based on actual average daily five years and the test year are prese Table 3: Comparison Public Co 2003 2004 2005 2006 2007 2007 2003-2007 Average Test Year	han PSE has experienced his y load and actual peak day lo ented in Table 3 below. of Historical Load Factors ounsel Load Factor 44.5% 38.2% 42.0% 39.6% 41.2% 41.0% 40.6%				

Mr. Watkins' inflated 46 percent load factor is significant because it is used to determine what portion of mains is allocated to customer classes based on throughput versus peak demand. The higher the load factor, the more cost is allocated on annual throughput, and the more costs are allocated away from residential customers toward large industrial customers.

Q. Is PSE's proposed 33 percent load factor low?

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A. PSE's 33 percent load factor is based on its estimate of a design day peak, which,
as noted earlier in my testimony, is consistent with peaks presented in the IRP.
The peaks presented in the IRP are used for planning purposes and are higher than
those typically experienced. A very cold day increases the peak dramatically
relative to average usage, so the load factor ratio of average day demand to peak
day demand is expected to be lower than the level experienced on a historical
basis.

14D.Calculation of Return under Existing Rates

Q. Please discuss Mr. Watkins' assertion on pages 41-42 of his testimony that
there was a "slight oversight" in your calculation of class rates of return at
present rates.

18 A. Mr. Watkins asserts that my class rates of return at present rates are distorted
19 because certain internal allocation factors – which are used to allocate costs based
20 on other items that were previously allocated in the cost of service model –

included certain expenses in the Company's requested rate increase rather than strictly expenses being recovered in today's rates. He asserts that four specific items were included in these internal allocation factors.

4 Q. Is Mr. Watkins assertion correct?

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5 A. Mr. Watkins assertion is only partially correct. Of the four items he identified, 6 one item - \$154,417 of uncollectibles - was indeed being used in an internal 7 allocation factor called OM. I have rerun PSE's cost of service model correcting for this item and the results are not significantly different from my original 8 results. The other three items Mr. Watkins claims to be included in PSE's 9 10 internal allocation factors – \$19,012,582 of federal income taxes, \$2,181,139 of 11 other taxes, and \$113,542 of WUTC fees – are not, in fact, included in any internal allocator. Mr. Watkins claim is incorrect. 12

13 Q. Did Mr. Watkins address this issue in his revised testimony filed June 23?

A. In his revised testimony, Mr. Watkins did not acknowledge that the oversight
involves only one of the four items he originally identified in his footnote No. 11.
Footnote 11 on page 41 of his revised testimony remains incorrect. He did
acknowledge that the oversight was immaterial, and he replaced his Table 14,
which originally presented rates of return, with a table that shows the nominal
changes in expense and rate base when the oversight is corrected.

E.

Other Comments on Cost of Service Analysis

2	Q.	What other comments do you have about the cost of service analysis?
3	А.	Because of the proposed transportation tariffs that parallel sales schedules,
4		transportation customers who are expected to migrate to Schedules 85T and 87T
5		are included with Schedule 85 and 87 sales schedules, respectively, for cost of
6		service purposes. Some customers were assumed to remain in Schedule 57 until a
7		later time, either when it is terminated or sometime prior to that. During the
8		discovery process, PSE developed an additional cost of service study that breaks
9		out Schedules 85T and 87T from their related sales schedules, for purposes of
10		identifying parity ratios for the small (Schedule 85T) and large (Schedule 87T)
11		transportation customers. In all other ways, this study was identical to that
12		proposed by PSE in its original filing. The summary page from this cost of
13		service study is provided as Exhibit No(JKP-20). These results indicate that
14		large transportation customers (Schedule 87T) are below parity. Parity ratios
15		from this study are presented in Table 4 below:

Rate Class	Parity Ratio
Total System	100%
Residential (Schedules 23, 16, 53)	101%
Commercial & Industrial	900/
(Schedules 31, 61)	89%
Large Volume (Schedule 41)	156%
Interruptible (Schedule 85)	172%
Limited Interruptible (Schedule 86)	187%
Non-exclusive Interruptible (Schedule 87)	125%
Transportation (Schedule 57) and Special Contracts	122%
Compressed Natural Gas (Schedule 50)	21%
Rentals (Schedules 71, 72, 74)	69%
Interruptible Transportation (Schedule 85T)	172%
Non-exclusive Interruptible Transportation (Schedule 87T)	81%

Table 4: Parity Ratios with Schedules 85T and 87T Separated

III. SEATTLE STEAM

What comments do you have with respect to the testimony of Stanley Gent of

Response to Nucor Data Request No. 2 on April 25, 2008.

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Q.

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Seattle Steam?

A. There are several assertions in Seattle Steam's testimony about PSE's service that

are misleading or inaccurate. In Mr. Gent's discussion of the value of

interruptible customers to PSE at page 6 lines 18-20, he states: "large customers

ί		that are interruptible allow Puget to serve more customers with its existing
		system, including more growth, because at periods of peak demand Puget can free
		up capacity by curtailing interruptible customers." At page 7 lines 4-7, he states:
		"large interruptible customers are particularly valuable to a gas utility when it is
		experiencing significant growth in its customer base, because to at least some
		extent the Company can meet the needs of an expanding customer base by
		curtailing interruptible customers instead of being forced to expand its system."
		These statements imply that interruptible customers add capacity to PSE's system,
		which is not true. PSE's distribution system is designed to serve firm customers,
		regardless of the size of interruptible loads also served. If there were no
		interruptible loads, PSE would be able to serve all of its firm customers. PSE
		does benefit by having interruptible customers. The benefits are that the system
		can be used more efficiently and unused capacity can be used to provide revenue,
		not that interruptible customers add capacity to the system.
	Q.	Seattle Steam implies that it should be allocated less of the costs for main
		repair or replacement because the main that serves it is a sixteen-inch
		wrapped steel main. Do you agree?
	A.	No. At page 7 lines 18-22, Seattle Steam discusses a sixteen-inch main and
		comments: "Because it is wrapped steel, the Company does not have to replace it,
		as it has had to replace many of its smaller bare steel and cast iron mains." First,
		PSE records indicate that Seattle Steam's service lines are physically connected to
		twelve-inch and six-inch main, not sixteen-inch main as asserted by Seattle
	Prefile (Nonc	ed Rebuttal Testimony Exhibit No(JKP-17T) confidential) of Page 30 of 47

Steam. Second, to imply that any plant will never need to be replaced is incorrect. It will eventually need to be replaced. Also, sometimes PSE needs to relocate or replace mains for reasons other than capacity requirements. Public improvement projects such as road construction will sometimes require relocation or replacement of gas mains. For example, as part of the rebuild/replacement of the Alaskan Way Viaduct, it is likely that the six-inch and twelve-inch mains that are used to serve Seattle Steam will need to be replaced.

8 Q. Do you have other concerns regarding Seattle Steam's testimony?

9 Yes. Seattle Steam seems to assume that all large interruptible customers are like A. Seattle Steam. For example, at page 8 lines 3-5, Mr. Gent states: "I would expect 10 11 most of Puget's large industrial customers to be similarly situated along the core 12 trunk of Puget's distribution system." With respect to cost of service and rate 13 design, Seattle Steam is one customer in a group of 47 firm and interruptible sales 14 and transportation customers on Schedules 57 and 87. Many large customers are 15 served with service lines that are physically connected to main that is six inches 16 or smaller in diameter. While they do not tend to be located in residential areas, 17 the assumption that all 47 large customers are served with service lines that are 18 physically connected to main that is also twelve inches in diameter, or even to the 19 high pressure system of eight to sixteen inch main, is overly broad. To conduct a 20 cost of service study that isolates every customer, or even every large customer, 21 would be unreasonable. Similarly, rates are developed for groups of customers 22 who have similar load characteristics. While one of Seattle Steam's service lines

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is physically connected to twelve-inch main, it does not mean all customers in the 1 2 same class are also connected to twelve-inch main. To expect cost of service 3 analysis and rates to be developed on the assumption that all customers in that 4 class are served in the same manner as Seattle Steam is unreasonable. 5 Q. Do you agree with Mr. Gent's claims (at page 8 line 28 through page 9 line 2) 6 that capital investments may be delayed or reduced due to the presence of 7 interruptible customers on PSE's system? 8 A. No. PSE plans its capital improvements based on only firm loads. Mr. Gent 9 acknowledges this in his statement at page 8 lines 23-24, that "large interruptible 10 customers are simply not the cause of this investment of capital." But he goes too 11 far with his claim that capital investments can be reduced or delayed because of 12 the presence of interruptible customers on the system. Since the presence of 13 interruptible loads is not considered in determining the capacity of the system, interruptible customers simply have no impact on capital investment decisions. 14 15 The Company is obligated to have the capacity to serve all of its firm customers 16 on a peak day, regardless of whether interruptible customers are present to use 17 excess capacity. 18 **Q**. Please address Seattle Steam's claim that it has not benefited from PSE's 19 investments in system capacity and reliability. 20 A. Seattle Steam has directly benefited from PSE's investments in system capacity 21 and reliability through reductions in actual and planned curtailments. Seattle Prefiled Rebuttal Testimony Exhibit No. ___(JKP-17T) Steam indicates it was partially curtailed only twice during the 2007-2008 winter (for a total of twelve hours). PSE's records indicate that Seattle Steam was indeed asked to curtail on two occasions during that period (for a total of eight hours).

5 A better indicator of the system's ability to serve its customers than actual 6 curtailments is the number of curtailments planned for various predicted system 7 temperatures. At a given temperature, planned curtailments to Seattle Steam and 8 other interruptible customers have declined over the last three years due to 9 investments in system capacity and reliability. For Seattle Steam these 10 improvements in service are in two forms, temperature and amount of gas. First, 11 the temperature at which a partial curtailment would be required has declined – 12 which indicates PSE is able to serve Seattle Steam at colder temperatures than in 13 the past. Whereas in 2004-2005 partial curtailment might have been required at 29 degrees Fahrenheit, in 2007-2008 partial curtailment was not required until the 14 temperature was predicted to reach 25 degrees Fahrenheit. Second, the amount of 15 16 gas Seattle Steam is allowed to use in the event of a partial curtailment increased 17 by 14 percent between the winters of 2006-2007 and 2007-2008.

Q. Will reductions in curtailments be a "short-term phenomenon" as stated by Seattle Steam at page 11, lines 2-5?

A. Because the Company attempts to increase capacity in the most economically
feasible way, PSE's capacity improvements often result in excess capacity being

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temporarily available. Until firm demand increases to use that capacity, it is 1 2 available for use by interruptible customers. When the excess capacity has been 3 used up, additional investment in capacity projects will occur, creating new 4 excess capacity. Without these capacity improvement projects, the amount of gas 5 service available to interruptible customers would be reduced. 6 Q. Please comment on Seattle Steam's statements about the bill impacts to 7 Schedule 41 customers. 8 A. First I want to clarify the nature of Schedule 41. At page 18 lines 11 through 12, 9 Mr. Gent refers to "truly interruptible customers" on Schedule 41. Schedule 41 is 10 a firm schedule, so there are no interruptible customers on it. All customers pay 11 the demand charge based on their fixed demand, which is established once a year 12 based on the customer's usage during the system peak month. Mr. Gent also 13 asserts that PSE "is proposing a significant rate decrease," yet he provides no basis for that assertion. The proposed rate spread includes no increase to the 14 15 class, but because of rate design changes some customers are expected to 16 experience different impacts on their bills than others. 17 I conducted an analysis of customer bill impacts assuming certain consumption 18 and demand levels. My analysis indicates that bill impacts range from a 1.0 19 percent decrease to a 12.7 percent increase depending on the customer's 20 consumption and load factor. For instance, assuming a 60 percent load factor, 54 21 percent of customers would either experience no change or a slight increase as a

result of the proposed changes. For those who are expected to experience decreases as a result of the Company's proposal, the decreases range from 0.4 percent to 1.0 percent. Table 5, below, presents abbreviated results of this analysis at various monthly consumption levels, and Exhibit No.___(JKP-21) provides more complete analysis. For example, a customer whose one-month consumption is 2,000 therms with a demand of 111 therms would experience an increase of 0.3 percent. These impacts can hardly be considered a "significant rate decrease" as characterized by Mr. Gent.

Table 5: Schedule 41 Estimated Monthly BillImpacts of Proposed Rate Changes

Monthly	Monthly	_	_	~	_	~
Consumption	Demand	Revenue	Percent	Customer	Percent of	Cumulativ
(Therms)	(Therms) ¹	Change	Change	Count ²	Customers ²	e Percent ²
500	28	\$70.70	12.7%	41	4%	4%
1,000	56	\$22.89	2.2%	209	23%	27%
2,000	111	\$4.98	0.3%	244	27%	54%
3,000	167	\$(12.13)	-0.4%	149	16%	70%
4,000	222	\$(30.04)	-0.8%	78	8%	79%
5,000	278	\$(47.15)	-1.0%	38	4%	83%
10,000	556	\$(77.70)	-0.8%	76	8%	91%
20,000	1,111	\$(139.60)	-0.7%	53	6%	97%
25,000	1,389	\$(170.15)	-0.7%	8	1%	98%
50,000	2,778	\$(323.70)	-0.7%	18	2%	100%
100,000	5,556	\$(630.80)	-0.7%	4	0%	100%

¹ Demand assumes fixed load factor of 60 percent at all consumption levels.

² Count and percent of customers whose average monthly consumption is in the block ending with the indicated consumption. For example, 23 percent of customers' average monthly consumption is between 500 and 1,000 therms.

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1	Q.	Please address Mr. Gent's staten	nent tha	t "Puget a	ppears to b	e using th	ie
2		regulatory process to unfairly in	pact the	e large the	rmal energ	y market	place
3		in Seattle" at page 19 lines 14 th	ough 10	6.			
4	A.	Mr. Gent seems to be saying that F	'SE, a re	gulated util	ity, is using	the regul	atory
5		process to unfairly impact Seattle S	Steam, a	n unregulat	ed competin	ng utility.	This
6		is simply not true. PSE is attempti	ng to de	velop a cos	t of service	study that	(i) is
7		based on industry standard princip	les; (ii) 1	eflects PSE	E's distribut	ion systen	n; (iii)
8		respects past Commission guidanc	e; and (i	v) treats all	customers	on a consi	stent
9		basis. The cost of service study ha	s evolve	ed over time	e as analytic	al tools ha	ave
10		become available and as PSE has e	valuated	d methodolo	ogies used i	n past case	es.
11		IV. RATE SPRE	AD AN]	D RATE D	ESIGN		
12	Q.	What concerns have been raised	in respo	onse testim	ony with r	espect to	rate
13		spread or revenue allocation to c	ustome	r classes?			
14	A.	Table 6 below presents the rate spr	ead prop	posed by PS	E and inter	vening pa	rties.
15		I will address the proposed change	s to rate	spread to S	chedule 50	(Compres	ssed
16		Natural Gas ("CNG")), Schedule 87 (Non-exclusive Interruptible), Schedule 57					
17		(Firm and Interruptible Transportation), and Rentals.					
18 19	Table 6: Rate Spread Proposals by Party –Percent of Average Increase						
		Customer Class	PSE	WUTC Staff	NWIGU	Nucor	Public Counsel
		Residential (Schedules 23, 16, 53)	100%	100%	100%	100%	95%
	Prefiled Rebuttal TestimonyExhibit No(JKP-17T)(Nonconfidential) ofPage 36 of 47Janet K. PhelpsPage 36 of 47				P-17T) 6 of 47		

Commercial & Industrial (Schedules 31, 61)	145%	145%	145%	145%	125%
Large Volume (Schedule 41)	0%	0%	0%	0%	50%
Compressed Natural Gas (Schedule 50)	100%	100%	147%	145%	150%
Interruptible (Schedule 85)	0%	0%	0%	0%	85%
Limited Interruptible (Schedule 86)	-50%	0%	-50%	0%	0%
Non-exclusive Interruptible (Schedule 87)	130%	130%	50%	0%	140%
Transportation (Schedule 57)	130%	130%	50%	0%	130%
Rentals (Schedules 71, 72, 74)	31%	31%	150%	145%	150%

Q. Please comment on Schedule 50, Compressed Natural Gas.

2 Schedule 50 no longer exists. Subsequent to its December 3, 2007 filing of the A. 3 present case, PSE discontinued CNG service. There were only three regular customers taking service on Schedule 50, and CNG service had become available 4 5 from other service providers in the area. In Docket No. UG-080064 (which has 6 been consolidated with this docket), PSE requested and received permission from 7 the Commission to discontinue Schedule 50. The \$5,187 increase proposed by 8 the Company will simply be lost by the Company if the proposed rate spread is 9 approved. To allocate additional revenue responsibility to this class as proposed 10 by NWIGU, Nucor and Public Counsel is akin to reducing PSE's requested 11 increase and is not appropriate.

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Q. What are your comments on revenue allocation to the rental customers?

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A. PSE's proposed revenue allocation was equal to the system average increase to all

1		other customers when gas costs are included in the calculation, which was 5.3
2		percent in the initial proposal. This class has had significant rate increases in the
3		last three cases (17.3 percent, 14.5 percent and 10.6 percent implemented in 2002,
4		2005 and 2007, respectively), and its parity ratio has improved over time. PSE is
5		concerned that an increase larger than originally proposed is too much. Please see
6		pages 24-26 of Mr. Karl Karzmar's Prefiled Direct Testimony for a discussion of
7		the basis for PSE's proposed increase to the rental class.
8	Q.	What have parties proposed related to Schedules 87 and 57?
9	A.	Nucor and NWIGU propose a revenue allocation of zero and 50 percent of the
10		average increase, respectively, compared with PSE's proposal of 130 percent of
11		the average increase for both schedules. Commission Staff witness Mr. Thomas
12		E. Schooley concurs with PSE's proposed 130 percent of the average increase for
13		both schedules. Public Counsel proposes 140 percent of the average increase for
14		Schedule 87 and 130 percent for Schedule 57.
15	Q.	Please comment on these proposals.
16	А.	Nucor and NWIGU's proposals are based on modifications to the cost of service
17		study that I discussed earlier in my testimony and are not appropriate. PSE's cost
18		of service study provides a better basis for rate spread than any other cost of
19		service study presented in this proceeding. The parity ratios presented in Table 4
20		above provides specific evidence that large transportation customers, as
21		represented by Schedule 87T, are below their cost of service levels, and that small

1		transportation customers, as represented by Schedule 85T, are above their cost of
2		service levels. The parity ratios for Schedule 57 do not reflect the need for an
3		increase because Schedule 57 contains a combination of small transporters, who
4		are above their cost of service, and large transporters, who are below their cost of
5		service. Schedule 57 rates continue to be tied to Schedule 87 rates, so any change
6		to 87 directly affects Schedule 57. This problem of mixing small and large
7		customers in a class will be resolved after the new transportation tariffs are
8		implemented and customers are grouped into classes that parallel the sales
9		schedules.
10	0.	What concerns have been raised in response testimony related to rate design.
	×.	
11	A.	Seattle Steam expresses concern that costs related to firm loads are being borne
12		by interruptible customers instead of firm customers, because fixed costs are
		recovered through volumetric rates NWIGU argues that fixed costs should not
13		recovered unough volumetric rates. INWIGO argues that fixed costs should not
13 14		necessarily be recovered through fixed charges, and opposes increases to the
13 14 15		necessarily be recovered through fixed charges, and opposes increases to the demand and customer charges. Public Counsel opposes increases to customer
13 14 15 16		necessarily be recovered through fixed charges, and opposes increases to the demand and customer charges. Public Counsel opposes increases to customer charges.
13 14 15 16		necessarily be recovered through fixed charges, and opposes increases to the demand and customer charges. Public Counsel opposes increases to customer charges.
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13 14 15 16		necessarily be recovered through fixed charges, and opposes increases to the demand and customer charges. Public Counsel opposes increases to customer charges.

1	Q.	In his discussion of the Company's proposed customer charges, Commission
2		Staff witness Mr. Schooley comments that, should an increase be allowed,
3		general plant and administrative and general ("A&G") costs should be
4		excluded from the customer charge. Please comment on this.
5	A.	PSE witness Mr. David Hoff discusses both the gas and electric customer charges
6		in his rebuttal testimony. I will add that, if A&G and general plant costs were
7		excluded from the calculation, the residential customer costs would be \$14.83 per
8		customer per month.
9	Q.	Please comment on the demand charge.
10	A.	NWIGU witness Mr. Schoenbeck states at page 22, line 1 of his response
11		testimony: "This Commission long ago soundly rejected the fixed-variable
12		costing method," yet he provides no basis for his claim. At page 22 line 26, he
13		also argues that Schedule 85 and 87 customers provide a larger share of revenue
14		on a fixed cost basis than residential customers do. PSE's efforts to increase
15		fixed cost recovery through fixed charges are not limited to large interruptible
16		customers, as evidenced by proposed increases to customer charges and demand
17		charges in other schedules. Customers on interruptible schedules have the option
18		to firm up a portion of their load, but the demand charge does not reflect the full
19		cost to PSE of providing firm service. A substantial portion of fixed costs are
20		included in volumetric rates. Because the customers on these schedules range
21		from fully firm to fully interruptible, including a large portion of fixed costs in the

	volumetric charge is not fair to customers whose loads are fully interruptible.
	These customers are different from the residential class with respect to the mixing
	of firm and interruptible customers on a schedule.
	Nucor witness Mr. Higgins recommends that the relationship between existing
	demand and volumetric charges be maintained regardless of the revenue
	allocation to the large interruptible classes.
	Seattle Steam supports an increase to the demand charge that is even greater than
	that proposed by PSE.
	PSE's proposed increase of the demand charge for Schedules 85, 86, 87 and 57
	from \$1.02 to \$1.50 is appropriate. Cost of service results support an even higher
	demand charge, and the Company's proposal is movement toward fixed cost
	recovery without moving all the way in that direction.
	V. PROPOSED TRANSPORTATION TARIFFS
Q.	What issues related to PSE's proposed transportation tariffs were raised by
	parties in their response testimony?
A.	No parties oppose the implementation of the proposed transportation tariffs, but
	parties have raised concerns about the terms and conditions associated with the
	proposed tariffs. At issue are the requirement that interruptible customers use gas
	as an exclusive fuel during times of non-curtailment, the requirement that
	interruptible customers have backup equipment for use in the event of a
Prefit (Non Janet	led Rebuttal Testimony Exhibit No(JKP-17T) confidential) of Page 41 of 47 K. Phelps

curtailment, and minimum monthly charges on Schedules 85 and 87.

2 Q. Why are these terms and conditions proposed by PSE?

A. As I discussed in my direct testimony, the proposed tariffs make sales and
transportation service more consistent with each other. These terms and
conditions are consistent with those of the existing interruptible sales schedules.

6 **Q.** Please discuss the backup requirement.

A. The interruptible schedules include a requirement that interruptible customers
have backup equipment for use in the event of a curtailment. This requirement
was put in place on interruptible sales schedules in 1967. PSE's understanding of
the history is that the Commission is concerned about public welfare. If large
employers and schools are not able to function because of a gas curtailment, and
employees and students are sent home, there could be harm to the public.

As indicated on page 12 of my direct testimony, PSE has made exempt from the
backup requirement current transportation customers who move to Schedule 85T,
86T or 87T as a result of the elimination of Schedule 57. In addition, the tariff
allows customers to request waivers of the requirement from the Commission.
These allowances should address the concerns about the backup requirement.
If the Commission chooses to eliminate this requirement as part of this
proceeding, PSE requests the opportunity to modify language in its tariffs related

to the Company's responsibility and have customers sign agreements holding the

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Company harmless in the event of curtailments.

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2 **Q**. Please discuss the minimum charges on Schedules 85 and 87. 3 A. Minimum monthly charges as they exist today were implemented on Schedule 85 4 in 1994. They are in place for two reasons. First, without minimum charges there 5 would be incentive for customers to switch from Schedule 86, which has higher 6 rates than Schedule 85 and is intended for a very specific type of customer. 7 Without minimum charges there would be no barriers to prevent this movement 8 between schedules. Second, Schedule 85 is intended for high load factor 9 customers, and the monthly minimum charges discourage low load factor 10 customers from taking service on Schedule 85. 11 In the context of the rate decreases small transportation customers should 12 experience as a result of PSE's proposal, minimum charges that primarily affect 13 customers with low load factors should not be a major concern. 14 VI. CONCLUSION 15 Q. Are you aware of a settlement between other parties in this proceeding 16 related to gas rate spread, rate design, and transportation tariffs? 17 Yes, shortly before PSE's prefiled rebuttal testimony was to be filed, the A. 18 Company learned that a group of parties had come to a settlement agreement on 19 these issues and is filing joint testimony in support of the settlement. Prefiled Rebuttal Testimony

1	Q.	Please comment on the proposed settlement.
2	A.	PSE is not opposed to some provisions of the settlement as we understand it,
3		based on information provided to the Company on June 24, 2008. The Company
4		does have concerns about some aspects of the settlement, however.
5	Q.	What portions of the proposed settlement do you agree with?
6	А.	PSE does not oppose the following aspects of the parties' settlement proposal, as
7		we understand it.
8 9 10		• Operating terms of Schedule 57 would be incorporated into Schedules 87T and 85T with the addition of minimum annual charges. Schedules 87T and 85T would have:
11		o no exclusive fuel requirement
12		 no backup fuel requirement
13		o no monthly minimum charges.
14 15		• The exclusive fuel and back up fuel requirements on sales Schedules 87 and 85 would be removed.
16 17		• Schedules 87, 85, 87T and 85T would have annual minimum charges instead of monthly minimum charges.
18		• Schedule 57 would be eliminated immediately.
19 20 21 22 23 24 25 26		• PSE would hire an independent consultant to address natural gas cost of service, rate spread and rate design. The consultant would be selected by consensus of all interested parties and would assist the parties in an effort to reach agreement on those topics before PSE's next general rate case; however, PSE's timing for filing a general rate case is not contingent on reaching an agreement. In the event agreement cannot be reached, all parties would retain the right to litigate those issues using the experts of their own choosing.
	Prefil (None Janet	ed Rebuttal Testimony Exhibit No(JKP-17T) confidential) of Page 44 of 47 K. Phelps

Janet K. Phelps

Customer charges to Schedules 85, 87 and 57 would be increased by the overall percentage increase to Schedules 87 and 57. The procurement charges for Schedules 85 and 87 would remain unchanged at \$0.00650 for Schedule 85 and \$0.00500 for Schedule 87. **O**. What aspects of the settlement does the Company believe need to be modified or clarified by the Commission? A. There are aspects of the rate spread that the Commission should modify if it accepts the parties' settlement. The table below demonstrates those portions of the settlement that need modification. **Percent of Customer Class** Average **PSE's Recommendation** Increase Residential (23.53.16) 98.46% Accept parties proposal Commercial/industrial 142.35% Accept parties' proposal (31,36,51,61) Large Volume (41) 12.50% | Accept Parties' proposal Compressed Natural Gas (50) 0.00% Accept Parties' proposal Interruptible (85) 12.50% Accept Parties' proposal Limited Interruptible (86) 0.00% Accept Parties' proposal Non-exclusive Interruptible (87) Accept Parties' proposal 50.00% 50.00% Accept Parties' proposal Transportation (57) As allowed by contracts given rate design on Contracts transportation schedules. Rentals (71,72,74) Percentage increase equal to system increase including gas. Residual Spread to all classes except rentals. As I discussed earlier in my testimony, the Company's proposed increase to rentals is consistent with the system average increase to all other customers when gas costs are included in the calculation. However, given the proposal to assign

only 50 percent of the average increase to Schedules 87 and 57, this will result in

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approximately one million dollars being allocated to the other schedules. This amount should be spread to all other classes consistent with the rest of the increase.

4 **Q**.

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What are the Company's concerns about contracts and the treatment of any residual?

6 A. The proposed settlement assigns more cost to the Company's special contract 7 customers than those customers' contracts will allow, and makes no provision for modifying the increase to other customer classes so that the full increase can 8 9 actually be collected. The amount of the increase assigned to contract customers 10 should be no greater than amounts allowed by the contracts. Contracts are based 11 in part on the rate design of transportation tariffs. Once the final rate change, rate 12 spread and rate design are determined by the Commission, the amount that goes 13 to special contract customers should be calculated based on their contracts. Any difference between the allowable amount and the amount assigned by rate spread 14 15 should then be allocated to all other classes except rentals. PSE expects this 16 amount to be small.

With respect to any residual that exists as a result of the proposed spread, the
settlement proposes to assign the entire residual to commercial and industrial
customers on Schedule 31, who have already been assigned the largest increase of
any customer group. This amount should be spread to all classes other than
rentals. Again, this amount is expected to be relatively small.

1	Q.	Are there other modifications and clarifications that PSE believes should be
2		made to the settlement?
3	A.	Yes. PSE proposes the following three items:
4 5		• Annual minimum charges on Schedules 85, 87, 85T and 87T would be established by PSE.
6 7 8 9 10 11 12		• As I discussed earlier in my testimony and as Seattle Steam pointed out, the current demand charge on Schedules 85, 87 and 57 is considerably below cost of service levels, and PSE proposes an increase to \$1.50. Should the Commission have concerns about an increase of this magnitude, the demand charge should be increased to \$1.30 or higher. The \$1.30 level would represent improvement from the existing \$1.02 level.
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29		• The second block delivery charge on Schedule 85 would be modified so that the relationship between the three blocks is consistent with PSE's initial proposal. The purpose of this is to create block rates that decline more evenly than the current rates of \$0.10000 for the first block, \$0.05127 for the second block, and \$0.04921 for the third block. Any additional revenue change required by the proposed rate spread would be accomplished through equal percentage changes to the volumetric charge once this adjustment has been made. The current initial block rate of \$0.10 was prescribed in the Commission's order in UG-060267. The third block rate of \$0.04921 is tied to the third block rate on Schedule 87. As a result, when PSE filed its compliance filing in UG-060267 there was little choice but to reduce the middle block rates so that in total, the Schedule 85 rates collected the proper amount of revenue. This resulted in uneven differences between the block rates, as described above. PSE attempted to correct this inconsistency with its initial proposal in this case and with this proposal.
30	Q.	Does that conclude your prefiled rebuttal testimony?
31	А.	Yes, it does.
	Prefil (Non Janet	led Rebuttal Testimony Exhibit No(JKP-17T) confidential) of Page 47 of 47 K. Phelps