

**Exh. JL-9**  
**Dockets UE-190529/UG-190530 and**  
**UE-190274/UG-190275 (*consolidated*)**  
**Witness: Jing Liu**

**BEFORE THE WASHINGTON  
UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND  
TRANSPORTATION COMMISSION,**

**Complainant,**

**v.**

**PUGET SOUND ENERGY,**

**Respondent.**

**DOCKETS UE-190529  
and UG-190530 (*consolidated*)**

**In the Matter of the Petition of**

**PUGET SOUND ENERGY**

**For an Order Authorizing Deferral  
Accounting and Ratemaking Treatment  
for Short-life UT/Technology Investment**

**DOCKETS UE-190274 and  
UG-190275 (*consolidated*)**

**EXHIBIT TO TESTIMONY OF**

**Jing Liu**

**STAFF OF  
WASHINGTON UTILITIES AND  
TRANSPORTATION COMMISSION**

*Temperature Normalization Backcast - Natural Gas*

**November 22, 2019**

### Gas Temperature Normalized Sales Backcast

Schedule (Temperature Sensitive)		Actual Sales	System Level Backcast Reconciled Based on Schedule Level Backcast				Schedule Level Backcast			
			Backcast Sales	Deviation From Actual	Deviation Percentage	Absolute Deviation Percentage	Backcast Sales	Deviation From Actual	Deviation Percentage	Absolute Deviation Percentage
Residential	23	571,255,277	589,655,149	18,399,872	3%	3%	565,061,425	(6,193,852)	-1%	1%
General service - commercial	31	210,638,368	202,083,157	(8,555,211)	-4%	4%	193,560,803	(17,077,565)	-8%	8%
Large volume - commercial	41	54,136,963	52,239,034	(1,897,929)	-4%	4%	50,022,606	(4,114,357)	-8%	8%
Trans. large volume - commercial	41T	13,859,277	15,112,345	1,253,067	9%	9%	13,941,364	82,086	1%	1%
Trans. interrupt with firm option - com	85T	22,702,900	23,453,083	750,183	3%	3%	21,621,970	(1,080,930)	-5%	5%
Trans. non-exclus inter w/ firm option - com	87T	17,942,576	19,229,811	1,287,235	7%	7%	17,825,287	(117,289)	-1%	1%
Interruptible with firm option - com	85	14,161,213	13,193,311	(967,902)	-7%	7%	14,050,981	(110,232)	-1%	1%
Limited interrupt w/ firm option - com	86	8,362,671	8,041,769	(320,903)	-4%	4%	8,092,739	(269,933)	-3%	3%
Non-excl interrupt w/ firm option - com	87	22,718,559	16,664,998	(6,053,561)	-27%	27%	23,984,275	1,265,716	6%	6%
General service - industrial	31	14,389,663	13,357,071	(1,032,592)	-7%	7%	12,794,879	(1,594,784)	-11%	11%
Large volume - industrial	41	9,500,149	9,722,034	221,886	2%	2%	9,305,294	(194,854)	-2%	2%
Special contracts - ind	SC	35,648,418	38,463,322	2,814,904	8%	8%	35,800,121	151,703	0%	0%
<b>Total</b>		<b>995,316,034</b>	<b>1,001,215,084</b>	<b>5,899,050</b>	<b>1%</b>	<b>7%</b>	<b>966,061,744</b>	<b>(29,254,290)</b>	<b>-3%</b>	<b>4%</b>

Source: PSE Response to UTC Staff Data Request No.83 Attachment A