

**Exh. JL-5  
Docket UG-170929  
Witness: Jing Liu**

**BEFORE THE WASHINGTON  
UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND  
TRANSPORTATION COMMISSION,**

**Complainant,**

**v.**

**CASCADE NATURAL GAS  
CORPORATION,**

**Respondent.**

**DOCKET UG-170929**

**EXHIBIT TO  
TESTIMONY OF**

**Jing Liu**

**STAFF OF  
WASHINGTON UTILITIES AND  
TRANSPORTATION COMMISSION**

*Comparison of 2012 Temperature and NOAA 1981-2010 Normals*

**February 15, 2018**

**Comparison of 2012 Temperature and NOAA 1981-2010 Normals  
Heating Degree Days with 60 Farenheit Base Temperature**

	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Annual Total</u>	<u>Winter Months</u> <u>(Jan, Feb, Nov, Dec)</u>	<u>Shoulder Months</u> <u>(Mar, Apr, May, Sep, Oct)</u>
Bellingham															
2012	646	482	542	315	207	126	19	5	78	287	412	607	<b>3,724</b>	2,146	1,428
Normal	645	539	488	348	197	75	16	14	104	319	504	679	<b>3,928</b>	2,367	1,456
Difference	1	(57)	54	(34)	10	51	3	(9)	(27)	(32)	(93)	(72)	<b>(204)</b>	(221)	(28)
Bremerton															
2012	657	524	552	285	190	108	14	2	27	241	409	599	<b>3,606</b>	2,189	1,294
Normal	589	501	439	306	160	52	8	4	51	245	464	628	<b>3,447</b>	2,182	1,201
Difference	68	23	113	(22)	30	56	6	(2)	(25)	(5)	(55)	(29)	<b>159</b>	7	93
Walla Walla															
2012	714	627	451	226	117	36	0	0	4	213	456	617	<b>3,459</b>	2,414	1,009
Normal	760	585	426	243	101	15	1	1	30	230	546	823	<b>3,761</b>	2,714	1,030
Difference	(46)	42	25	(18)	16	21	(1)	(1)	(27)	(17)	(91)	(206)	<b>(302)</b>	(300)	(21)
Yakima															
2012	942	645	539	270	124	48	0	0	15	314	559	826	<b>4,280</b>	2,971	1,261
Normal	900	669	523	331	144	33	3	4	73	347	680	975	<b>4,682</b>	3,224	1,418
Difference	42	(24)	16	(62)	(20)	15	(3)	(4)	(59)	(33)	(121)	(150)	<b>(403)</b>	(253)	(157)