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BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION
COMMISSION

DOCKET NO. UE-991606

EXHIBIT NO. ____ (WGJ-3) OF WILLIAM G. JOHNSON
REPRESENTING AVISTA CORPORATION

POWER COST ADJUSTMENT
HYDRO HOURLY SHAPE ADJUSTMENT
EXAMPLE WORKSHEET

WUTC		
DOCKET NO. <u>UE-991606</u>		
EXHIBIT # <u>499</u>		
ADMIT	W/D	REJECT
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Avista Corporation
PCA Calculation
Hydro Hourly Shape Adjustment

Month	Total	Average	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Hours			744	672	744	719	744	720	744	744	720	744	720	744
Authorized Hydro														
1 System aMW		447.8	373.0	429.0	431.0	511.0	768.0	782.0	496.0	314.5	274.0	221.0	334.0	440.0
2 Mid Columbia aMW		105.5	122.0	121.0	97.0	102.0	111.0	129.0	106.0	114.0	84.0	81.0	90.0	109.0
3 Total Hydro MWh	4,844,231		368,280	369,600	392,832	440,747	653,976	655,920	447,888	318,804	257,760	224,688	305,280	408,456
4 HLH MWh	3,391,216		265,087	267,928	284,654	299,320	421,848	422,208	307,867	246,562	196,344	168,442	221,618	289,342
5 LLH MWh	1,453,015		103,193	101,674	108,178	141,427	232,128	233,712	140,021	72,242	61,416	56,246	83,664	119,114
6 HLH % (16 hours HLH / 24 hours)		70%	72%	72%	72%	68%	65%	64%	69%	77%	76%	75%	73%	71%
7 LLH % (8 hours LLH / 24 hours)		30%	28%	28%	28%	32%	35%	36%	31%	23%	24%	25%	27%	29%
Actual Hydro														
8 Noxon/Cabinet MWh	1,755,157		168,677	133,324	213,178	278,264	428,181	533,533						
9 HLH MWh			137,316	112,035	173,191	219,335	265,048	309,133						Line 9 + Line 10
10 LLH MWh			31,361	21,289	39,987	58,929	163,133	224,400						Actual Generation
11 Long Lake/Little Falls MWh	496,314		86,606	78,750	84,876	81,640	83,398	81,044						Line 12 + Line 13
12 HLH MWh			48,588	45,252	49,441	47,361	46,757	46,972						Actual Generation
13 LLH MWh			38,018	33,498	35,435	34,279	36,641	34,072						Actual Generation
14 Other Spokane River MWh	258,206		44,694	41,371	44,445	42,537	43,543	41,616						Actual Generation
15 HLH %			57%	57%	57%	57%	57%	57%						HLH/Hours in Month
16 LLH %			43%	43%	43%	43%	43%	43%						LLH/Hours in Month
17 Mid Columbia MWh	561,557		111,037	102,322	107,784	94,646	71,982	73,786						Line 18 + Line 19
18 HLH MWh			67,117	63,001	67,818	58,194	41,922	43,307						Actual Generation
19 LLH MWh			43,920	39,321	39,966	36,452	30,060	30,479						Actual Generation
20 Total Hydro MWh	3,071,234		411,014	355,767	450,283	497,087	627,104	729,979						Line 8 + Line 11 + Line 14 + Line 17)
21 HLH MWh	1,888,865		278,497	243,869	315,784	348,136	378,547	423,133						Line 9 + Line 12 + (Line 14 * Line 15) + Line 18
22 LLH MWh	1,082,269		132,517	111,898	134,499	147,951	248,557	306,846						Line 10 + Line 13 + (Line 14 * Line 16) + Line 19
23 HLH %		65%	67.8%	68.5%	70.1%	70.2%	60.4%	58.0%						Line 21 / Line 20
24 LLH %		35%	32.2%	31.5%	29.9%	29.8%	39.6%	42.0%						Line 22 / Line 20
25 Change in Total Hydro Generation MWh	189,879		42,734	-13,833	57,451	56,340	-26,872	74,059						Line 20 - Line 3
26 HLH MWh	27,922		13,408	-24,057	31,129	49,816	-43,301	925						Line 21 - Line 4
27 LLH MWh	161,957		29,325	10,224	26,322	6,524	16,429	73,134						Line 22 - Line 5
28 HLH %		15%	31%	174%	54%	88%	161%	1%						Line 26 / Line 25
29 LLH %		85%	69%	-74%	46%	12%	-61%	99%						Line 27 / Line 25
30 Dow Jones Mid Col Index Average Price		\$21.47	\$23.33	\$24.17	\$20.00	\$22.00	\$20.33	\$18.97						Actual Index Price (2/3 * HLH + 1/3 * LLH)
31 Dow Jones Mid Col Index HLH Price		\$23.11	\$25.48	\$25.89	\$21.29	\$23.94	\$21.51	\$20.56						Actual LLH Index Average Monthly Price
32 Dow Jones Mid Col Index LLH Price		\$19.29	\$20.48	\$21.89	\$18.29	\$19.44	\$18.76	\$18.88						Actual HLH Index Average Monthly Price
33 Value of Change in Generation at Avg Price	\$3,809,732		\$996,984	-\$334,344	\$1,149,020	\$1,239,480	-\$546,308	\$1,404,899						Line 25 x line 30
34 Value of Change in Generation During HLH	\$661,432		\$341,671	-\$622,834	\$662,742	\$1,192,355	-\$931,523	\$18,021						Line 26 x line 31
35 Value of Change in Generation During LLH	\$2,973,950		\$600,568	\$223,802	\$481,425	\$128,786	\$308,258	\$1,233,110						Line 27 x line 32
36 Value of Change in Generation at HLH & LLH Price	\$3,635,382		\$942,239	-\$399,032	\$1,144,167	\$1,319,142	-\$623,265	\$1,252,132						Line 34 + Line 35
37 Change in Surplus(Deficit) Hydro Value			\$54,745	\$64,688	\$4,853	-\$79,662	\$76,957	\$152,767						Line 36 - Line 33
38 Washington Share @ 66.99%			\$36,674	\$43,335	\$3,251	-\$53,365	\$51,554	\$102,339						Line 37 x 66.99%
39 PCA Hourly Shape Adjustment	\$184,000		\$37,000	\$43,000	\$3,000	-\$53,000	\$52,000	\$102,000						Line 38 rounded to 000

(Negatives are Rebate, Positives are Surcharge)

Numbers in bold are actuals, all other numbers are authorized or calculated.