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BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION  
COMMISSION

DOCKET NO. UE-99

EXHIBIT NO. 45 OF WILLIAM G. JOHNSON  
REPRESENTING AVISTA CORPORATION

POWER COST ADJUSTMENT  
HOURLY HYDRO SHAPE ADJUSTMENT  
EXAMPLE WORKSHEETS

<b>WUTC</b>		
DOCKET NO.	<u>UE-991606</u>	
EXHIBIT #	<u>422</u>	
ADMIT	W/D	REJECT
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Avista Corporation  
PCA Calculation  
Hydro Hourly Shape Adjustmen

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
<b>Authorized Hydro</b>														
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 HLH aMW			280.7	323.7	322.5	352.0	498.2	507.7	348.1	257.3	217.3	174.6	252.0	324.6
3 LLH aMW			92.3	105.3	108.5	159.0	269.8	274.3	147.9	57.2	56.7	46.4	82.0	115.4
4 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
5 HLH aMW			75.6	75.0	60.1	64.3	68.8	78.7	65.7	74.1	55.4	51.8	55.8	64.3
6 LLH aMW			46.4	46.0	36.9	37.7	42.2	50.3	40.3	39.9	28.6	29.2	34.2	44.7
7 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
8 HLH MWh	3,391,216		265,087	267,926	284,654	299,320	421,848	422,208	307,867	246,562	196,344	168,442	221,616	289,342
9 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
10 HLH %	70%		72%	72%	72%	68%	65%	64%	69%	77%	76%	75%	73%	71%
11 LLH %	30%		28%	28%	28%	32%	35%	36%	31%	23%	24%	25%	27%	29%
<b>Actual Hydro</b>														
12 Noxon/Cabinet MWh	1,755,157		168,677	133,324	213,178	278,264	428,181	533,533						
13 HLH MWh			137,316	112,035	173,191	219,335	265,048	309,133						
14 LLH MWh			31,361	21,289	39,987	58,929	163,133	224,400						
15 Long Lake/Little Falls MWh	496,314		86,606	78,750	84,876	81,640	83,398	81,044						
16 HLH MWh			48,588	45,252	49,441	47,361	46,757	46,972						
17 LLH MWh			38,018	33,498	35,435	34,279	36,641	34,072						
18 Other Spokane River MWh	258,206		44,694	41,371	44,445	42,537	43,543	41,616						
19 HLH %			57%	57%	57%	57%	57%	57%						
20 LLH %			43%	43%	43%	43%	43%	43%						
21 Mid Columbia MWh	561,557		111,037	102,322	107,784	94,646	71,982	73,786						
22 HLH MWh			67,117	63,001	67,818	58,194	41,922	43,307						
23 LLH MWh			43,920	39,321	39,966	36,452	30,060	30,479						
24 Total Hydro MWh	3,071,234		411,014	355,767	450,283	497,087	627,104	729,979						
25 HLH MWh	1,988,965		278,497	243,869	315,784	349,136	378,547	423,133						
26 LLH MWh	1,082,269		132,517	111,898	134,499	147,951	248,557	306,846						
27 HLH %	65%		67.8%	68.5%	70.1%	70.2%	60.4%	58.0%						
28 LLH %	35%		32.2%	31.5%	29.9%	29.8%	39.6%	42.0%						
29 PCA Secondary Price		\$20.47	\$23.55	\$20.71	\$20.28	\$19.19	\$19.95	\$19.12						
30 HLH-LLH Spread		\$6.98	\$5.65	\$5.19	\$6.39	\$6.04	\$7.45	\$11.14						
31 Percent of Secondary Purchase/Sales in HLH		78%	80%	78%	75%	73%	76%	87%						
32 Percent of Secondary Purchase/Sales in LLH		22%	20%	22%	25%	27%	24%	13%						
33 Derived PCA Adjusted Secondary HLH Price		\$21.92	\$24.67	\$21.87	\$21.85	\$20.80	\$21.72	\$20.58						
34 Derived PCA Adjusted Secondary LLH Price		\$14.94	\$19.02	\$16.68	\$15.47	\$14.76	\$14.27	\$9.43						
35 Deviation in Total Hydro Generation MWh	189,879		42,734	-13,833	57,451	56,340	-26,872	74,059						
36 HLH MWh	27,922		13,409	-24,057	31,129	49,816	-43,301	925						
37 LLH MWh	161,957		29,325	10,224	26,322	6,524	16,429	73,134						
38 HLH %	15%		31%	174%	54%	88%	161%	1%						
39 LLH %	85%		69%	-74%	46%	12%	-61%	99%						
40 Hydro Deviation Adj PCA Secondary Price		\$20.23	\$20.79	\$25.71	\$18.93	\$20.10	\$26.27	\$9.57						
41 Change in PCA Adjusted Secondary Price		-\$0.24	-\$2.76	\$5.00	-\$1.35	\$0.91	\$6.32	-\$9.55						
42 Change in Surplus(Deficit) Hydro Value			-\$117,946	-\$69,165	-\$77,559	\$51,269	-\$169,831	-\$707,263						
43 Washington Share @ 66.99%			-\$79,012	-\$46,334	-\$51,957	\$34,345	-\$113,770	-\$473,795						

Avista Corporation  
PCA Calculation  
Hydro Hourly Shape Adjustment - Hourly Shape of Purchases & Sales, HLH - LLH Spread

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	MWh											
1	Short-Term Purchases											
	1,034,775	800,072	630,655	579,576	864,593	1,038,287						
2	306,727	219,692	199,993	191,432	223,748	90,826						
	Short-Term Sales											
3	955,700	715,126	514,833	568,627	885,592	980,560						
4	185,137	218,057	174,701	225,794	322,496	212,454						
	Total Purchases & Sales											
5	1,990,475	1,515,198	1,145,488	1,148,203	1,750,185	2,018,847						
6	491,864	437,749	374,694	417,226	546,244	303,280						
7	2,482,339	1,952,947	1,520,182	1,565,429	2,296,429	2,322,127						
	Total Purchases & Sales											
8	80.2%	77.6%	75.4%	73.3%	76.2%	86.9%						
9	19.8%	22.4%	24.6%	26.7%	23.8%	13.1%						
	Dollars											
10	\$27,202,885	\$18,099,676	\$14,039,195	\$11,960,761	\$18,530,220	\$21,042,355						
11	\$6,152,050	\$4,014,658	\$3,334,465	\$2,800,816	\$3,190,384	\$913,365						
	Short-Term Sales											
12	\$22,400,514	\$15,131,019	\$11,180,309	\$12,026,130	\$19,315,122	\$20,283,888						
13	\$3,323,999	\$3,313,115	\$2,521,749	\$3,393,630	\$4,553,270	\$1,915,672						
	Total Purchases & Sales											
14	\$49,603,399	\$33,230,695	\$25,219,504	\$23,986,891	\$37,845,342	\$41,326,243						
15	\$9,476,049	\$7,327,773	\$5,856,214	\$6,194,446	\$7,743,654	\$2,829,037						
16	\$59,079,448	\$40,558,468	\$31,075,718	\$30,181,337	\$45,588,996	\$44,155,280						
17	\$24.92	\$21.93	\$22.02	\$20.89	\$21.62	\$20.47						
18	\$19.27	\$16.74	\$15.63	\$14.85	\$14.18	\$9.33						
19	\$23.80	\$20.77	\$20.44	\$19.28	\$19.85	\$19.02						
20	\$5.65	\$5.19	\$6.39	\$6.04	\$7.45	\$11.14						