

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

DOCKET UE-240006

EXH. CGK-4

CLINT G. KALICH

REPRESENTING AVISTA CORPORATION

Line No.	Avista Corp.	
	Brief Description of CGK-2 Power Supply Adjustment	Workpaper
1	N/A	
2	Short-Term Market. Term financial and physical contracts, plus hour spot transactions. Spot market in proforma are results of Aurora model.	Term deals
3	Chelan PUD. Rocky Reach and Rock Island contract expense. Expires 12/31/2040.	Aurora-generated - see CGK-1/CGK-2
4	Douglas PUD. Wells Purchase contract expense. Expires 12/31/2040.	Aurora-generated - see CGK-1/CGK-2
5	Grant PUD. Priest Rapids and Wanapum contract expense. Expires 12/31/2040.	Aurora-generated - see CGK-1/CGK-2 and Grant PUD 11.10.21.xlsx
6	Lancaster PPA. Includes Contract costs of capital, operations and maintenance (O&M) and heat rate tracker. Variable O&M based on the generation level determined by Aurora model.	Lancaster PPA - workpaper
7	Small Power - Summation of small PURPA power contracts; pro forma costs are based on 5-year average generation levels and actual pro forma period contract rates.	Small Power
8	Stimson. PURPA purchase from cogeneration plant at Plummer, Idaho; based on 5-year average generation levels and priced using actual contract rates.	Stimson Lumber
9	Spokane Upriver. PURPA purchase from City of Spokane; based on 5-year average of local pumping and generation levels and priced using actual contract rates.	Upriver Gen and Load
10	Spokane Waste to Energy. PURPA purchase from City of Spokane; based on 5-year average of generation levels and priced using actual contract rates.	Spokane_Waste_to_Energy
11	'Palouse Wind. PPA price in pro forma year multiplied by generation. Monthly generation equals the 5-yr average adjusted for curtailment. The hourly shaping methodology uses the 5-yr median energy profile.	Palouse Wind.
12	Adams-Neilson Solar (Solar Select). Contract purchase based on output estimated by facility, as project has been in existence only since 2018; priced using actual contract rates.	Represents the net purchase/sale deal
13	Elf I Solar	Elf 1 Solar 8760
14	Rattlesnake Wind. Contract purchase based on output estimated by facility, as project entered commercial service in late 2020; priced using actual contract rates.	Rattlesnake Flat
15	Columbia Basin Hydro. Contract purchase based on output of irrigation canals; priced using actual contracts rates.	
16	Clearwater Wind	
17	Incremental VER Integration	Wind Integration
18	Clearwater - reconciling item (not in ERM).	
19	WPN Ancillary Services - reconciling item (not in ERM).	
20	Non-Monetary Accruals - reconciling item (not in ERM).	
21	Total Account 555 - with reconciling items.	Summarization of lines 2-14.
22	N/A	
23	N/A	
24	Miscellaneous Transaction Fees. Expense is 5-year average of transaction fees for CAISO, brokerage fees for electricity and natural gas market transactions, and Canadian Merchandise Processing Fees assessed by the U.S. Government on imported Canadian gas.	Transactions Fees
25	Other Resource Cost. Actual one-time load curtailment payment to avoid shedding market purchases and/or load shedding during a 2019 system reliability event; set to zero in pro forma.	Not included in rate period proforma. Not a recurring expense.
26	Natural Gas Fuel. Purchases to fuel gas-fired generation fleet as part of risk management/hedging policy, but then later re-sold (see line 67, Surplus AECO to Malin Transportation) due to changing market conditions (i.e., plant later becomes uneconomic relative to purchasing electricity from the market). Pro forma expense is zero because we do not emulate our hedging program in pro forma modeling.	Reclassification - please see accounts 501/547
27	Total Account 557	Summarization of lines 18-22.
28	N/A	
29	N/A	
30	Kettle Falls Generation Station. Combined wood fuel and natural gas expense. Wood fuel expense is based on Aurora model generation multiplied by the latest budget fuel price. Natural gas used for starting the plant is based on 5-year average.	Fuel Costs' sheet of this exhibit, Kettle and Colstrip Fuel 2016-2020.xlsx

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31	Colstrip. Combined coal and fuel oil expense. Coal expense is based on fixed and variable costs under a long-term contract. The variable portion of coal fuel costs is based on generation levels from the Aurora model. Fuel oil used for starting the plant is based on 5-year average.	Fuel Costs' sheet of this exhibit, Kettle and Colstrip Fuel 2016-2019.xlsx
32	Total Account 501.	Summarization of lines 24-25.
33	N/A	
34	N/A	
35	Coyote Springs 2 Combined Cycle Combustion Turbine. Natural gas cost based on Aurora model dispatch priced first at its location, but then reduced to AECO basin prices where long-term contract transportation rights exist. See testimony and workpapers for more detail on this calculation.	'Fuel Costs' sheet of this exhibit
36	Lancaster Combined Cycle Combustion Turbine. Natural gas cost based on Aurora model dispatch priced first at its location, but then reduced to AECO basin prices where long-term contract transportation rights exist. See testimony and workpapers for more detail on this calculation.	'Fuel Costs' sheet of this exhibit
37	TC Energy Pipeline. Costs related to firm natural gas pipeline capacity on TC Energy pipeline between AECO and Kingsgate. Used for our Lancaster and Coyote Springs 2 plants. Variable charges are billed at tariffed rates based on the 5-year average generation.	Natural Gas Transportation Contracts
38	Williams Northwest Pipeline. Costs related to use of the Williams Northwest pipeline. Used for our Boulder Park, Northeast, and Kettle Falls CT plants. Charges are billed at tariffed rates based on the 5-year average generation.	'Fuel Costs' sheet of this exhibit
39	Rathdrum Combustion Turbine. Natural gas cost based on Aurora model dispatch priced first at its location, but then reduced to AECO basin prices where long-term contract transportation rights exist. See testimony and workpapers for more detail on this calculation.	'Fuel Costs' sheet of this exhibit
40	Northeast Combustion Turbine. Natural gas cost based on Aurora model dispatch priced first at its location, but then reduced to AECO basin prices where long-term contract transportation rights exist. See testimony and workpapers for more detail on this calculation.	'Fuel Costs' sheet of this exhibit
41	Boulder Park Engines. Natural gas cost based on Aurora model dispatch priced first at its location, but then reduced to AECO basin prices where long-term contract transportation rights exist. See testimony and workpapers for more detail on this calculation.	'Fuel Costs' sheet of this exhibit
42	Kettle Falls Combustion Turbine. Natural gas cost based on Aurora model dispatch priced first at its location, but then reduced to AECO basin prices where long-term contract transportation rights exist. See testimony and workpapers for more detail on this calculation.	'Fuel Costs' sheet of this exhibit
43	Total Account 547	Summarization of lines 29-36.
44	N/A	
45	N/A	
46	Short-Term Purchases. Set to zero in proforma reflecting additional 50 MW long-term Point-to-Point contract purchase from BPA for Coyote Springs 2 accounted for in line 48.	Not included in rate period pro forma
47	BPA Point-to-Point transmission for Colstrip, Coyote Springs 2, and Lancaster. Proforma expense is based on contracted capacity at tariffed rate. Includes additional 50 MW contract for Coyote Springs 2.	565 Transmission Expense.xlsx
48	BPA Montana Intertie for Townsend to Garrison. Fixed fee contract with BPA for transmission of Colstrip power from Townsend to	565 Transmission Expense.xlsx
49	Avista on BPA Borderlines. Purchase for serving Avista load in 3rd-party service area. 5-year average of actual expense priced at proforma year tariffed rate.	565 Transmission Expense.xlsx
50	Kootenai Electric Cooperative, Inc for Worley. Purchase for serving Avista load in 3rd-party service area. Pro forma expense is based on contracted capacity at tariffed rate.	565 Transmission Expense.xlsx
51	Northern Lights - Sagle. Purchase for serving Avista load in 3rd-party service area. Pro forma expense is based on contracted capacity at tariffed rate.	565 Transmission Expense.xlsx
52	Northwestern for Colstrip. Purchase on Northwestern for Colstrip generation above 196-MW BPA Townsend to Garrison contract. 2019 test year expense used instead of 5-year average due to lower cost of serving Nichols Pumping contract after closure of Colstrip Units 1&2.	565 Transmission Expense.xlsx

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53	Portland General Electric John Day to COB. Purchase of Southern Intertie rights from John Day substation to California-Oregon border. Proforma expense priced at pro forma year tariffed rate.	565 Transmission Expense.xlsx
54	Northwestern for Clearwater III (wind). Purchase of intertie rights for Clearwater Wind.	565 Transmission Expense.xlsx
55	Columbia Basin Hydro transmission. Purchase of intertie rights for Columbia Basin Hydro to Mid-C.	565 Transmission Expense.xlsx
56	Total Account 565.	Summarization of lines 41-48.
57	N/A	
58	Total Expense - Sum of Accounts 555, 557, 501, 547, 565.	
59	N/A	
60	N/A	
61	Short-Term Market. Term financial and physical contracts, plus hourly spot transactions. Spot market in pro forma are results of Aurora model.	Aurora-generated - see CGK-1/CGK-2
62	Forecast to Actual Market Adjustment. 5 year average comparison of forecasted to actual market difference.	
63	Nichols Pumping. Sale of energy for water pumping loads of Colstrip Units 3 and 4; contract price is Mid-C index less \$0.50/MWh. Lower revenue due to reduction in pumping load with closure of Units 1&2.	Aurora-generated - see CGK-1/CGK-2
64	Sovereign/Kaiser Services. Sale of balancing area services to Kaiser's Trentwood plant. Based on 5-year average.	447 Sovereign and POPUD
65	Pend Oreille PUD. Sale of balancing area services to Pend Oreille PUD. Based on TY since 5-year average overstates due to loss of large industrial customers. Contract expires 9/30/2026.	447 Sovereign and POPUD
66	Total Account 447 - with reconciling items.	Summarization of lines 54-61.
67	N/A	
68	N/A	
69	Non-WA EIA REC Sales. Idaho share of REC sales. These are not included in base power supply expenses and are tracked and rebated annually.	Not included in rate period proforma. Included in annual REC filing.
70	Natural Gas Liquids. Liquids rebates from natural gas purchased at AECO; 5-year average.	Natural Gas Liquids
71	Surplus AECO to Malin Transportation. Test year value includes resale of purchases made to fuel gas-fired generation fleet as part of risk management/hedging policy (see line 20, Natural Gas Fuel Purchases) due to changing market conditions (i.e., plant later becomes uneconomic relative to purchasing electricity from the market). Pro forma value reflects only revenue received from buying AECO gas and selling it at Malin using firm transportation rights surplus to Avista gas plant use.	'Fuel Costs' and 'Gas Contracts MTM' sheets of this exhibit
72	Total Account 456.	Summarization of lines 65-67.
73	N/A	
74	Total Revenue - Sum of Accounts 447, 456.	
75	N/A	
76	Total Net Expense - Total expense minus total revenue.	