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**BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION**

IN THE MATTER OF THE APPLICATION ) CASE NO. AVU-E-17-01  
OF AVISTA CORPORATION FOR THE )  
AUTHORITY TO INCREASE ITS RATES )  
AND CHARGES FOR ELECTRIC AND )  
NATURAL GAS SERVICE TO ELECTRIC ) EXHIBIT NO. 6  
AND NATURAL GAS CUSTOMERS IN THE )  
STATE OF IDAHO ) WILLIAM G. JOHNSON  
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FOR AVISTA CORPORATION

(ELECTRIC ONLY)

**Avista Corp.**  
**Power Supply Pro forma - Idaho Jurisdiction**  
**System Numbers - 2016 Actual and 2018 Pro Forma**  
**Test Year Load**

Line No.		2016 Actuals	Adjustment	2018 Pro Forma
	<u>555 PURCHASED POWER</u>			
1	Modeled ST Market Purchases	\$0	\$13,664	\$13,664
2	Actual ST Market Purchases	50,274	-50,274	0
3	Rocky Reach/Rock Island Purchase	12,044	2,559	14,603
4	Wells - Avista Share	1,772	672	2,444
5	Priest Rapids Project	6,801	813	7,614
6	Douglas Settlement	1,081	-254	827
7	Lancaster Capacity Payment	22,657	889	23,546
8	Lancaster Variable O&M Payments	2,701	210	2,911
9	WNP-3	15,637	-70	15,567
10	Deer Lake-IP&L	8	0	8
11	Small Power	1,362	-147	1,215
12	Stimson	1,856	-85	1,771
13	Spokane-Upriver	3,002	-90	2,912
14	Spokane Waste-to-Energy	5,664	351	6,015
15	Non-Monetary	21	-21	0
16	Ancillary Services	1,823	-1,823	0
17	Palouse Wind	20,525	-20,525	0
18	Total Account 555	147,228	-54,132	93,096
		147,227		
	<u>557 OTHER EXPENSES</u>			
19	Broker Commission Fees	411	0	411
20	WA EIA REC Purchase - 100% WA Allocation	437	-437	0
21	REC Expenses (offset to REC Revenue)	51	0	51
22	Rathdrum Solar, Buck-a-Block	1	-1	0
23	Natural Gas Fuel Purchases	66,110	-66,110	0
24	Total Account 557	67,010	-66,548	462
	<u>501 THERMAL FUEL EXPENSE</u>			
25	Kettle Falls - Wood Fuel	6,318	-471	5,847
26	Kettle Falls - Start-up Gas	14	0	14
27	Colstrip - Coal	22,371	-1,088	21,283
28	Colstrip - Oil	199	0	199
29	Total Account 501	28,902	-1,558	27,344
	<u>547 OTHER FUEL EXPENSE</u>			
30	Coyote Springs Gas	36,449	-9,749	26,700
31	Coyote Springs 2 Gas Transportation	5,716	679	6,395
32	Lancaster Gas	27,817	-1,154	26,663
33	Lancaster Gas Transportation	4,922	507	5,429
34	Gas Transport Optimization	0	-9,000	-9,000
35	Gas Transportation for BP, NE and KFCT	46	0	46
36	Rathdrum Gas	1,556	3,101	4,657
37	Northeast CT Gas	44	1,003	1,047
38	Boulder Park Gas	528	139	667
39	Kettle Falls CT Gas	122	332	454
40	Total Account 547	77,200	-14,141	63,059
		77,200		

**Avista Corp.**  
**Power Supply Pro forma - Idaho Jurisdiction**  
**System Numbers - 2016 Actual and 2018 Pro Forma**  
**Test Year Load**

Line No.	2016 Actuals	Adjustment	2018 Pro Forma
<u>565 TRANSMISSION OF ELECTRICITY BY OTHERS</u>			
41	943	0	943
42	38	0	38
43	12,249	145	12,394
44	1,499	9	1,508
45	1,285	0	1,285
46	45	0	45
47	134	0	134
48	415	0	415
49	643	0	643
50	17,251	154	17,405
	17,251		
<u>536 WATER FOR POWER</u>			
51	989	10	999
52	<b>338,580</b>	<b>-136,215</b>	<b>202,365</b>
<u>447 SALES FOR RESALE</u>			
53	0	24,478	24,478
54	82,549	-82,549	0
55	19,278	-19,278	0
56	953	-21	932
57	150	0	150
58	601	0	601
59	13,462	-2,582	10,880
60	0	216	216
61	1,823	-1,823	0
62	118,816	-81,558	37,258
	118,816		
<u>456 OTHER ELECTRIC REVENUE</u>			
63	5,355	-1,851	3,504
64	79,528	-79,528	0
65	84,883	-81,379	3,504
<u>453 SALES OF WATER AND WATER POWER</u>			
66	357	16	373
67	<b>204,056</b>	<b>-162,921</b>	<b>41,135</b>
68	<b>134,524</b>	<b>26,706</b>	<b>161,230</b>
		19.85%	

**Avista Corp.**  
**Brief Description of Power Supply Adjustments**

**Line No.**

- 1 **Modeled Short-term Market Purchases** - Short-term purchases from the AURORA Dispatch Simulation Model.
- 2 **Actual ST Market Purchases** – Expense is set to zero since no fixed-price short-term transactions for 2018 are included in the pro forma.
- 3 **Rocky Reach/Rock Island Purchase** – The pro forma expense is based on the current contract which ends 12-31-2020.
- 4 **Wells – Avista Share** - Wells’ costs are based on the Company's 3.34% share of total project costs.
- 5 **Priest Rapids Project** - Priest Rapids Project expense includes the expense related to the purchased power from the Priest Rapids development and power from the Wanapum development.
- 6 **Douglas Settlement** – Douglas Settlement is for power Avista purchases from Douglas PUD per the 1989 Settlement Agreement. Contract ends 8-31-18.
- 7 **Lancaster Capacity Payment** – The Lancaster capacity payment includes a capital payment and a fixed O&M payment.
- 8 **Lancaster Variable O&M Payments** – the Lancaster variable O&M payment is based on the variable O&M rate in the Lancaster Power Purchase Agreement multiplied time the MWh of Lancaster generation in the pro forma.
- 9 **WNP-3** - Pro forma costs are based on the actual rate. The pro forma uses the actual rate for the contract for contract year 2016-2017 escalated at inflation to the pro forma period.
- 10 **Deer Lake-IP&L** - Pro forma expense is for power purchased from Inland Power to serve Avista customers.
- 11 **Small Power** – Pro forma costs are based on 5-year average generation and an average contract rate.
- 12 **Stimson** – This purchase is from the cogeneration plant at Plummer, Idaho. Pro forma costs are based on 5-year average generation and pro forma period contract rates.

- 13 **Spokane-Upriver** – Pro forma expense is based on a purchase of the net of pumping (at the plant) generation at the pro forma contract rate.
- 14 **Spokane Waste-to-Energy** - Pro forma expense is based on average generation and the pro forma period contract rate.
- 15 **Non-Monetary** - Expense is normalized to \$0 in the pro forma.
- 16 **Ancillary Services** – Pro forma expense is \$0 because this is an intra-utility expense (matching revenue in Account 447).
- 17 **Palouse Wind** – Palouse Wind generation and expense is not included in the pro forma. Avista is proposing to flow the net cost through the PCA in this case.
- 18 **Total Account 555**
- 19 **Broker Commission Fees** – Pro forma expense is associated with purchases and sales of electricity and natural gas fuel.
- 20 **WA EIA REC Purchases** – Pro forma expense is \$0 because this is a Washington only expense.
- 21 **REC Expense** – Expenses associated with the Non-WA EIA REC Sales revenue.
- 22 **Rathdrum Solar, Buck a Block** – This is the value of the energy from the Rathdrum Solar project for which Buck a Block pays the expense.
- 23 **Natural Gas Fuel Purchases** – This is the expense for natural gas purchased but not consumed for generation. Pro forma expense is \$0 because all gas purchased is assumed to be used for generation, and included in Account 547.
- 24 **Total Account 557**
- 25 **Kettle Falls Wood Fuel Cost** – Pro forma fuel expense is based on the generation of the Kettle Falls plant in the AURORA Model and the unit cost of available fuel.
- 26 **Kettle Falls-Start-up Gas** – Pro forma expense is for start-up gas at Kettle Falls and is based on the test-year expense.
- 27 **Colstrip Coal Cost** – Pro forma fuel expense is based on the generation of the Colstrip plant in the AURORA Model and the unit cost of fuel under the contract.

- 28 **Colstrip Oil** – Pro forma expense is for start-up oil expense. Pro forma is based on the test-year expense.
- 29 **Total Account 501**
- 30 **Coyote Springs Gas** – Pro forma expense is an output of the AURORA Model based on the pro forma unit cost of fuel and the dispatch of the plant, which determines the volume of fuel consumed.
- 31 **CS2 Gas Transportation** – This expense is for natural gas transportation for the Coyote Springs 2 plant.
- 32 **Lancaster Gas** - Pro forma expense is an output of the AURORA Model based on the pro forma unit cost of fuel and the dispatch of the plant, which determines the volume of fuel consumed.
- 33 **Lancaster Gas Transportation** – This expense is for natural gas transportation for the Lancaster plant.
- 34 **Gas Transportation Optimization** - This credit to expense is based on optimizing the gas transportation contracts for Coyote Springs 2 and Lancaster. In general, this involves trading the gas price spread between AECO (Canada) and Malin.
- 35 **Gas Transportation for BP, NE and KFCT** – This expense is for transportation of natural gas to serve Boulder Park, Northeast and Kettle Falls Combustion Turbine gas-fired plants.
- 36 **Rathdrum Gas** – Pro forma expense is an output of the AURORA Model based on the pro forma unit cost of fuel and the dispatch of the plant, which determines the volume of fuel consumed.
- 37 **Northeast CT Gas** – Pro forma expense is an output of the AURORA Model based on the pro forma unit cost of fuel and the dispatch of the plant which determines the volume of fuel consumed.
- 38 **Boulder Park Gas** – Pro forma expense is an output of the AURORA Model based on the pro forma unit cost of fuel and the dispatch of the plant which determines the volume of fuel consumed.
- 39 **Kettle Falls CT Gas** – Pro forma expense is an output of the AURORA Model based on the pro forma unit cost of fuel and the dispatch of the plant, which determines the volume of fuel consumed.

- 40 **Total Account 547**
- 41 **WNP-3 Transmission** – Pro forma WNP-3 wheeling is based on 32.22 MW at the BPA tariff rate.
- 42 **Wheeling for System Sales and Purchases** – Pro forma expense is for short-term transmission purchases.
- 43 **PTP for Colstrip and Coyotes Springs 2 and Lancaster**– Pro forma expense is based on 577 MW of capacity at the BPA tariff rate.
- 44 **BPA Townsend-Garrison Wheeling** – This expense is for the transmission of Colstrip power from the Townsend substation to the Garrison substation.
- 45 **Avista on BPA Borderline** – This expense is to serve Avista load off of BPA transmission. Expense is based on Avista’s borderline loads priced at BPA’s NT transmission rates plus ancillary services cost and use of facilities charges.
- 46 **Kootenai for Worley** – This expense is for Avista load served using Kootenai’s facilities.
- 47 **Sagle-Northern Lights** – Expense is for transmission purchased from Northern Lights Utility to serve Avista customers.
- 48 **Northwestern for Colstrip** – Northwestern for Colstrip wheeling is an expense for the transmission of Colstrip energy above 196 MW from the Garrison substation over Northwestern Energy’s transmission system to the interconnection of Northwestern Energy and Avista.
- 49 **PGE Firm Wheeling** – PGE Firm wheeling reflects the cost of transmission from the John Day substation to COB (Intertie South) purchased from Portland General Electric.
- 50 **Total Account 565**
- 51 **Headwater Benefits Expense** - Pro forma expense is based on the expense for contract year September 2016 through August 2017.
- 52 **Total Expenses** – Sum of Accounts 555, 557, 501, 547, 565, and 536.
- 53 **Modeled Short-Term Market Sales** - Short-term market sales from the AURORA Model simulation.
- 54 **Actual ST Market Sales - Physical** – Revenue is zero because no fixed-price short-term transactions for 2018 are included in the pro forma.

- 55 **PGE Capacity Sale** – This pro forma revenue is \$0 because the contract ended 12-31-16.
- 56 **Nichols Pumping Sale** – This is a sale of energy to other Colstrip Units 3 and 4 owners at the Mid-Columbia index price less \$2.16/MWh.
- 57 **Sovereign/Kaiser DES** – This contract provides load control services to Kaiser’s Trentwood plant.
- 58 **Pend Oreille DES & Spinning Reserves** – This contract provides load regulation and reserves for Pend Oreille PUD.
- 59 **Energy America** –Pro forma revenue includes a 50 aMW sale of energy at the Mid C index plus \$3/MWh.
- 60 **COB Optimization** – Pro forma revenue is based on the COB minus Mid C price spread in the AURORA model.
- 61 **Intercompany Generation** – Pro forma revenue is \$0 because it is intra-utility revenue (matching expense in Account 555).
- 62 **Total Account 447**
- 63 **Non WA EIA REC Sales** – This is the expected REC revenue in the pro forma period.
- 64 **Gas Not Consumed Sales Revenue** - This is the revenue for natural gas purchased but not consumed for generation. Pro forma revenue is \$0 because all gas purchased is assumed to be used for generation, and included in Account 547.
- 65 **Total Account 456**
- 66 **Upstream Storage Revenue** – Pro forma revenue is based on the revenue for contract year September 2016 through August 2017.
- 67 **Total Revenue** – Sum of Accounts 447, 456, 453 and 454.
- 68 **Total Net Expense** – Total expense minus total revenue.

**Avista Corp.**  
**Market Purchases and Sales, Plant Generation and Fuel Cost Summary**  
**Idaho Normalized January 2016 - December 2016**

	Total	744 Jan-18	672 Feb-18	743 Mar-18	720 Apr-18	744 May-18	720 Jun-18	744 Jul-18	744 Aug-18	720 Sep-18	744 Oct-18	721 Nov-18	744 Dec-18
Market Sales - Dollars	<b>-\$24,478,019</b>	-\$2,394,637	-\$709,495	-\$928,860	-\$2,022,807	-\$1,770,610	-\$1,719,932	-\$3,557,273	-\$1,574,382	-\$1,759,662	-\$1,220,613	-\$2,459,419	-\$4,360,329
Market Sales - MWh	(1,039,646)	-72,743	-25,093	-37,731	-108,954	-122,860	-122,751	-136,282	-52,802	-66,795	-53,586	-98,466	-141,584
Average Market Sales Price -\$/ MWh	\$23.54	\$32.92	\$28.27	\$24.62	\$18.57	\$14.41	\$14.01	\$26.10	\$29.82	\$26.34	\$22.78	\$24.98	\$30.80
Market Purchases - Dollars	<b>\$13,663,648</b>	\$914,909	\$2,152,343	\$1,884,759	\$446,451	\$152,489	\$387,116	\$1,127,058	\$2,183,389	\$1,449,014	\$1,488,780	\$797,738	\$679,602
Market Purchases - MWh	654,162	39,595	97,317	93,981	31,865	12,131	20,977	60,571	100,302	66,188	71,401	32,462	27,371
Average Market Purchase Price - \$/MWh	\$20.89	\$23.11	\$22.12	\$20.05	\$14.01	\$12.57	\$18.61	\$21.77	\$21.89	\$20.85	\$20.85	\$24.57	\$24.83
Net Market Purchases (Sales) MWh	-385,484	-33,148	72,224	56,250	-77,089	-110,729	-101,774	-75,711	47,500	-607	17,816	-66,004	-114,213
Net Market Purchases (Sales) aMW	-44.0	-45	107	76	-107	-149	-141	-102	64	-1	24	-92	-154
Average Sale and Purchase Price - \$/MWh	<b>\$22.52</b>	\$29.46	\$23.38	\$21.36	\$17.54	\$14.25	\$14.66	\$23.80	\$24.54	\$24.13	\$21.68	\$24.88	\$29.83
Colstrip MWh	1,344,235	141,970	119,622	126,114	75,555	57,925	61,333	114,739	125,202	127,048	123,723	129,234	141,772
Colstrip Fuel Cost \$/MWh	\$15.83	\$14.31	\$15.35	\$15.06	\$19.42	\$22.27	\$21.47	\$15.76	\$15.11	\$15.00	\$15.22	\$14.87	\$14.32
Colstrip Fuel Cost	<b>\$21,283,185</b>	\$2,031,964	\$1,835,611	\$1,899,687	\$1,467,454	\$1,290,025	\$1,316,983	\$1,807,794	\$1,891,545	\$1,906,131	\$1,883,288	\$1,922,270	\$2,030,433
Kettle Falls MWh	299,213	33,853	29,840	29,582	26,250	11,970	575	18,723	26,607	29,051	29,990	30,070	32,700
Kettle Falls Fuel Cost \$/MWh	\$19.54	\$19.53	\$19.53	\$19.54	\$19.58	\$19.66		\$19.56	\$19.53	\$19.53	\$19.53	\$19.53	\$19.53
Kettle Falls Fuel Cost	<b>\$5,847,422</b>	\$661,033	\$582,932	\$578,041	\$514,044	\$235,364	\$11,300	\$366,229	\$519,616	\$567,329	\$585,796	\$587,199	\$638,538
Coyote Springs MWh	1,397,126	169,290	102,704	92,264	68,732	32,292	34,355	121,668	152,813	144,964	142,307	150,500	185,236
Coyote Springs Fuel Cost \$/MWh	\$19.11	\$23.11	\$22.54	\$21.54	\$16.85	\$16.55	\$16.77	\$17.16	\$17.28	\$17.14	\$17.38	\$18.79	\$19.99
Coyote Springs Fuel Cost	<b>\$26,700,000</b>	\$3,912,119	\$2,314,468	\$1,987,675	\$1,158,433	\$534,563	\$576,046	\$2,087,704	\$2,639,966	\$2,485,321	\$2,473,370	\$2,827,875	\$3,702,460
Lancaster MWh	1,365,537	161,240	110,522	105,119	83,290	39,991	34,555	107,350	134,165	134,844	140,051	142,857	171,554
Lancaster Fuel Cost \$/MWh	\$19.53	\$23.16	\$22.96	\$22.00	\$17.19	\$17.52	\$17.82	\$18.11	\$18.09	\$17.46	\$17.55	\$19.01	\$20.00
Lancaster Fuel Cost	<b>\$26,662,839</b>	\$3,733,643	\$2,537,615	\$2,312,867	\$1,431,422	\$700,757	\$615,732	\$1,944,529	\$2,427,497	\$2,354,925	\$2,458,583	\$2,715,017	\$3,430,251
Boulder Park MWh	26,914	2,671	1,380	1,143	723	687	1,373	3,977	4,581	2,668	2,107	1,989	3,615
Boulder Park Fuel Cost \$/MWh	\$24.78	\$30.37	\$29.89	\$28.84	\$22.32	\$21.97	\$22.49	\$22.86	\$23.04	\$22.69	\$22.91	\$24.86	\$26.23
Boulder Park Fuel Cost	<b>\$666,979</b>	\$81,111	\$41,238	\$32,983	\$16,144	\$15,090	\$30,889	\$90,894	\$105,538	\$60,545	\$48,275	\$49,438	\$94,834
Kettle Falls CT MWh	18,961	1,744	862	652	411	428	878	2,279	2,877	2,231	1,984	1,994	2,621
Kettle Falls CT Fuel Cost \$/MWh	\$23.97	\$29.43	\$28.98	\$27.87	\$21.68	\$21.29	\$21.69	\$22.16	\$22.33	\$22.10	\$22.25	\$24.11	\$25.41
Kettle Falls CT Fuel Cost	<b>\$454,426</b>	\$51,308	\$24,971	\$18,178	\$8,914	\$9,119	\$19,033	\$50,502	\$64,262	\$49,315	\$44,128	\$48,076	\$66,621
Rathdrum MWh	133,761	6,269	805	98	293	880	5,515	23,578	31,002	18,769	14,136	12,918	19,498
Rathdrum Fuel Cost \$/MWh	\$34.82	\$38.66	\$37.66	\$35.82	\$28.53	\$40.68	\$39.35	\$38.47	\$38.64	\$28.97	\$29.14	\$31.64	\$33.38
Rathdrum Fuel Cost	<b>\$4,657,239</b>	\$242,317	\$30,328	\$3,508	\$8,351	\$35,815	\$216,995	\$906,959	\$1,197,960	\$543,636	\$411,873	\$408,711	\$650,787
Northeast MWh	30,811	467	12	19	57	140	1,094	5,687	7,176	4,795	3,959	3,608	3,796
Northeast Fuel Cost \$/MWh	\$33.98	\$43.74	\$41.37	\$40.40	\$32.13	\$31.67	\$32.37	\$32.85	\$33.10	\$32.76	\$32.90	\$35.66	\$37.77
Northeast Fuel Cost	<b>\$1,047,059</b>	\$20,442	\$480	\$769	\$1,823	\$4,425	\$35,428	\$186,814	\$237,486	\$157,124	\$130,261	\$128,657	\$143,351
Total Fuel Expense	<b>\$87,319,148</b>	\$10,733,937	\$7,367,643	\$6,833,709	\$4,606,584	\$2,825,159	\$2,822,406	\$7,441,424	\$9,083,869	\$8,124,325	\$8,035,573	\$8,687,242	\$10,757,275
Net Fuel and Purchase Expense	<b>\$76,504,777</b>												

Avista Corp  
Pro forma January 2018 - December 2018  
PCA Authorized Expense and Retail Sales  
2016 Normalized Loads

**PCA Authorized Power Supply Expense - System Numbers (1)**

	Total	January	February	March	April	May	June	July	August	September	October	November	December
Account 555 - Purchased Power	\$93,098,141	\$9,702,833	\$10,328,500	\$8,924,403	\$7,339,924	\$5,493,489	\$5,495,060	\$6,450,838	\$7,374,829	\$6,454,510	\$6,678,058	\$9,322,263	\$9,533,434
Account 501 - Thermal Fuel	\$27,343,606	\$2,710,748	\$2,436,293	\$2,495,479	\$1,999,248	\$1,543,139	\$1,346,033	\$2,191,772	\$2,428,911	\$2,491,210	\$2,486,834	\$2,527,218	\$2,686,722
Account 547 - Natural Gas Fuel	\$63,059,053	\$8,280,148	\$5,188,309	\$4,595,190	\$2,864,296	\$1,538,980	\$1,733,333	\$5,506,611	\$6,911,918	\$5,890,075	\$5,805,698	\$6,416,983	\$8,327,513
Account 447 - Sale for Resale	\$37,257,163	\$3,781,357	\$1,822,086	\$2,040,710	\$2,860,479	\$2,523,088	\$2,502,706	\$4,670,615	\$2,827,345	\$2,878,367	\$2,286,265	\$3,502,619	\$5,561,524
<b>Power Supply Expense</b>	\$146,243,638	\$16,912,372	\$16,131,016	\$13,974,362	\$9,342,988	\$6,052,520	\$6,071,720	\$9,478,606	\$13,888,313	\$11,957,427	\$12,684,325	\$14,763,845	\$14,986,145
<b>Transmission Expense</b>	\$17,404,447	\$1,367,136	\$1,600,335	\$1,468,739	\$1,449,915	\$1,423,359	\$1,415,703	\$1,470,703	\$1,461,595	\$1,427,130	\$1,424,958	\$1,434,978	\$1,459,896
<b>Transmission Revenue</b>	\$15,149,485	\$1,062,694	\$1,178,481	\$1,177,115	\$1,141,305	\$1,253,488	\$1,398,529	\$1,450,378	\$1,346,819	\$1,372,213	\$1,319,316	\$1,257,650	\$1,191,496
<b>Net REC Revenue</b>	\$3,453,000	\$293,350	\$264,550	\$293,350	\$283,750	\$293,350	\$283,750	\$293,350	\$293,350	\$283,750	\$293,350	\$283,750	\$293,350
	\$145,045,600												

**PCA Authorized Idaho Retail Sales (2)**

	Total	January	February	March	April	May	June	July	August	September	October	November	December
<b>Total Retail Sales, MWh (2)</b>	2,953,031	294,914	261,971	251,422	228,917	211,441	204,736	252,026	245,232	206,024	240,501	257,717	298,131
<b>2018 Load Change Adjustment Rate</b>	\$24.89 /MWh												
<b>2019 Load Change Adjustment Rate</b>	\$25.34 /MWh												

1) Multiply system numbers by 34.27% to determine Idaho share.

2) 12 months ended December 2016 weather normalized Idaho retail sales, with a pro forma adjustment, as explained by Mr. Kalich.