

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

DOCKET NO. UE-19 _____

DOCKET NO. UG-19 _____

WORKPAPERS

ELIZABETH M. ANDREWS

REPRESENTING AVISTA CORPORATION

Section 4 – Electric and Natural Gas Allocations

AVISTA
ALLOCATION FACTORS

NOTE 1: ELECTRIC
PRODUCTION/TRANSMISSION

Avista Utilities
 Production/Transmission Percentage
 12 Months Ended 12/31/18

	Washington	Idaho	Total
Actual Jurisdictional Allocation (12/31/18)			
Energy Retail Sales (MWH)	5,557,003	2,938,621	8,495,624
Energy Retail Sales Percentage	65.41%	34.59%	100.00%
MW's Peak (Retail + Adjustments)	12,809	6,262	19,071
MW's Peak Percentage	67.16%	32.84%	100.00%
Final Grand Summary - Allocation of Load by Jurisdiction (Based on 50/50 Weighing)	66.28%	33.72%	100.00%
Adjusted Jurisdictional Allocation			
Energy Retail Sales (MWH)	5,557,003	2,938,621	8,495,624
Less: Adjustments to Idaho Load			
Energy Retail Sales (MWH)	5,557,003	2,938,621	8,495,624
Energy Retail Sales Percentage	65.41%	34.59%	100.00%
MW's Peak (Retail + Adjustments)	12,809	6,262	19,071
Less: Adjustments to Washington Load (Note 1)	(1,891)		(1,891)
Less: Adjustments to Idaho Load (Note 2)		(478)	(478)
MW's Peak (Retail + Adjustments)	10,918	5,784	16,702
MW's Peak Percentage	65.37%	34.63%	100.00%
Adjusted Production Transmission Jurisdiction (Based on 50/50 Weighing)	65.39%	34.61%	100.00%

Note 1 Pend Oreille PUD/Kaiser Adjustment
 Note 2 Clearwater Paper Adjustment

Avista Utilities
Adjusted Production/Transmission Percentage
Adjustments to Washington Peak
12 Months Ended 12/31/18

	Box Canyon PPUD (A)	Pine PUD Rathdrum (Addback) (D)	Kaiser Trentwood (BPA)	Pend Oreille PUD (Usk-BPA)	Pend Oreille PUD (Newport-BPA)	Pend Oreille PUD (Box Canyon - BPA)	Pend Oreille PUD (Metaline Falls - BPA)	Pend Oreille PUD (Diamond Lake - BPA)	Total
January	(39)	34	(37)	(99)	(8)	(9)	(9)	(10)	(177)
February	(71)	59	(38)	(79)	(16)	(4)	(11)	(14)	(174)
March	(77)	39	(37)	(82)	(15)	11	(9)	(10)	(180)
April	(73)	4	(35)	(88)	18	26	(8)	(7)	(163)
May	-	63	(36)	(80)	(16)	(50)	(6)	(3)	(128)
June	(43)	81	(36)	(46)	(37)	(24)	(7)	(5)	(117)
July	(51)	44	(38)	(84)	(10)	(4)	(8)	(5)	(156)
August	(45)	42	(40)	(86)	(7)	(9)	(8)	(6)	(159)
September	(32)	33	(38)	(78)	(9)	(10)	(6)	(4)	(144)
October	(70)	48	(39)	(104)	15	21	(8)	(8)	(145)
November	(42)	39	(37)	(85)	(15)	(10)	(8)	(9)	(167)
December	(53)	54	(36)	(93)	(15)	(15)	(11)	(12)	(181)
	(596)	540	(447)	(1,004)	(115)	(77)	(99)	(93)	(1,891)

Note A - The Power Supply worksheet shows this as a debit but since it is generation it should be a credit (per Rick Lloyd)

Note B - This adjustment is needed since Kaiser/Pend Oreille PUD are not retail customers

Note C - Information comes from Power Supply's Calculation of Area Load By States (MW)

Note D - This relates to Pend Oreille PUD, added back in to match credit going out

Avista Utilities
Adjusted Production/Transmission Percentage
Adjustments to Idaho Peak
12 Months Ended 12/31/18

	Clearwater Total Generation
January	55
February	55
March	48
April	48
May	44
June	47
July	17
August	-
September	28
October	25
November	52
December	59
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AVISTA
ALLOCATION FACTORS

NOTE 1: NATURAL GAS
5-DAY PEAK ALLOCATOR



Interoffice Memorandum
Rates and Tariff Administration

DATE: 8/14/18
TO: Christine Machado, Resource Accounting
FROM: Annette Brandon
SUBJECT: 5-Day Peak Allocator

Attached is the latest consecutive 5-Day Peak Firm Sales requirement analysis. This analysis develops the three-year average percentage of firm sales gas purchased and delivered for Washington and Idaho.

The average is based on the maximum firm sales requirements for five consecutive days for each of the past three heating seasons. The calculation method used was approved by the Washington Utilities and Transportation Commission in Docket No. U-89-3105.

The following new percentages for Washington and Idaho should be used effective **November 1, 2018**:

Washington	69.10%
Idaho	30.90%
Total	<u>100.00%</u>

If you have any questions about this please call me at 4324.

Avista Utilities
 Consecutive 5-Day Peak Firm Requirement

		2015-2016	2016-2017	2017-2018	3 Year Average
System -	Volumes	2,303,100	14,221,280	12,298,700	28,823,080
	Percent	100.00%	100.00%	100.00%	100.00%
Washington -	Volumes	1,585,120	9,802,520	8,528,874	19,916,514
	Percent	68.83%	68.93%	69.35%	69.10%
Idaho -	Volumes	717,980	4,418,760	3,769,826	8,906,566
	Percent	31.17%	31.07%	30.65%	30.90%

Consecutive 5-Day Peak Firm Requirement
Total Requirement by Delivery Point

Run Date 05/17/2017 14:59:42

Start Date 01/03/2017

	2/18/2018	2/19/2018	2/20/2018	2/21/2018	2/22/2018	Total
Idaho CTP (Pipeline Vol Th)						
ATHO	7,030	7,800	7,820	7,860	6,620	37,130
BONN	11,730	12,900	13,010	11,770	11,450	60,860
CHASE RD	134,170	138,440	137,880	124,750	112,040	647,280
CORDLENE	55,100	59,650	59,790	54,010	48,930	277,480
CORDLENW	62,240	65,030	64,810	59,840	56,120	308,040
DOVER	9,880	9,640	9,770	8,470	8,240	46,000
GENESEE	1,600	1,720	1,940	1,900	1,960	9,120
KELLOGG	30,300	34,860	37,030	34,100	31,030	167,320
LEWISPF1	166,320	142,560	158,280	138,820	168,840	774,820
LEWISTNW	29,110	55,290	47,610	39,000	39,530	210,540
LEWISTON	63,050	96,960	85,250	75,580	76,050	396,890
MCGUIRE	36,160	38,780	38,080	34,680	31,740	179,440
MOSCOW	39,750	59,940	55,740	47,390	46,910	249,730
MOYS	6,230	9,690	9,910	9,140	9,280	44,250
PAGE MINE	110	120	130	130	240	730
PINEHURST	5,820	6,520	6,890	6,280	5,340	30,850
POST FALLS	34,640	36,320	36,240	32,290	27,550	167,040
RATHDRUM	56,500	59,580	59,270	55,710	49,930	280,990
SAGLE	3,330	3,360	3,400	2,900	2,890	15,880
SAND	29,720	29,010	29,200	25,730	24,030	137,690
SCHW	23,790	22,300	22,500	20,140	19,350	108,080
SMELTERVIL	2,480	2,830	3,040	2,810	2,650	13,810
ID Total	809,060	893,300	887,590	793,300	780,720	4,163,970
Reclass of 40% Lewiston	(78,172)	(79,140)	(82,356)	(71,128)	(83,348)	(394,144)
Total Idaho	730,888	814,160	805,234	722,172	697,372	3,769,826

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2)5 Day Peak (3 year average 2016-2018).xlsx

2018

Washington CTP (Pipeline Vol Th)

AVISTATURBINE	-	(1,319)	(12,210)	(19,563)	(3,818)	(36,910)
COLFAX	8,140	11,360	10,360	9,240	8,480	47,580
COLTON	1,040	1,550	1,370	1,180	1,270	6,410
CONNELL	25,290	24,900	29,850	31,300	33,350	144,690
ENDICOTT	990	1,130	1,200	1,030	990	5,340
GOLDENDALE	5,890	7,220	7,110	6,800	7,720	34,740
KEYSTONE	260	270	270	270	270	1,340
LCRS	970	1,070	1,130	1,000	950	5,120
LIND	1,110	1,200	1,440	1,320	1,290	6,360
MED LAKE	40,150	41,640	42,840	40,020	39,280	203,930
MICA	137,420	142,270	149,760	137,180	125,300	691,930
NINE MILE	153,730	165,210	173,440	166,300	158,680	817,360
PALOUSE	3,020	4,160	3,990	3,540	3,340	18,050
PULLMAN	94,140	115,890	91,730	104,460	106,610	512,830
RITZVILLE	5,990	6,110	6,400	5,700	5,600	29,800
ROSL	1,600	1,810	1,840	1,690	1,520	8,460
SJON	1,950	2,110	2,160	1,860	1,800	9,880
SPAN	2,080	2,140	2,180	2,100	2,000	10,500
SPO MEAD	393,330	445,500	399,170	374,120	313,800	1,925,920
SPO WEST	229,160	262,550	260,730	245,050	233,430	1,230,920
SPRAGUE	860	880	890	790	780	4,200
STEVENS#2	2,110	2,350	2,580	2,460	2,530	12,030
STEVENSON	1,480	1,620	2,050	1,850	1,950	8,950
SWWP	439,260	431,590	509,140	487,060	457,990	2,325,040
UNIONTOWN	670	1,020	990	850	860	4,390
WARDEN (WA)	19,710	21,590	20,110	22,840	21,620	105,870
WA Total	1,570,350	1,695,821	1,710,520	1,630,447	1,527,592	8,134,730
Reclass of 40% Lewiston	78,172	79,140	82,356	71,128	83,348	394,144
Total Washington	1,648,522	1,774,961	1,792,876	1,701,575	1,610,940	8,528,874

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2)5 Day Peak (3 year average 2016-2018).xlsx
2018

Consecutive 5-Day Peak Firm Requirement
 Total Requirement by Delivery Point

Run Date 05/17/2017 14:59:42

Start Date 01/03/2017

	1/3/2017	1/4/2017	1/5/2017	1/6/2017	1/7/2017	Total
Idaho CTP (Pipeline Vol Th)						
ATHO	6,400	6,620	7,100	6,100	6,260	32,480
BONN	14,530	14,970	13,880	12,860	12,290	68,530
CHASE RD	115,590	114,380	112,340	102,790	99,040	544,140
CORDLENE	76,480	78,290	78,270	71,990	69,210	374,240
CORDLENW	72,660	73,830	73,790	67,440	63,410	351,130
DOVER	10,620	10,780	10,420	9,870	9,490	51,180
GENESEE	1,370	1,190	1,520	1,870	2,110	8,060
KELLOGG	35,130	38,570	38,690	37,380	34,240	184,010
LEWISPI	226,430	235,420	232,670	262,500	270,530	1,227,550
LEWISTNW	49,580	58,830	62,660	61,230	55,900	288,200
LEWISTON	90,910	103,340	109,380	105,740	97,760	507,130
MCGUIRE	35,440	35,560	35,520	34,330	32,410	173,260
MOSCOW	57,850	59,830	63,000	58,570	55,540	294,790
MOYS	10,920	10,630	10,090	7,010	6,710	45,360
PAGE MINE	330	370	390	360	330	1,780
PINEHURST	6,360	7,380	7,500	7,100	6,490	34,830
POST FALLS	43,510	45,520	46,670	42,550	37,330	215,580
RATHDRUM	66,480	67,510	67,030	62,170	62,270	325,460
SAGLE	3,450	3,490	3,540	3,310	3,050	16,840
SAND	29,890	30,310	29,120	26,600	25,060	140,980
SCHW	26,900	25,760	24,890	23,750	22,540	123,840
SMELTERVIL	2,870	3,250	3,350	3,230	2,990	15,690
ID Total	983,700	1,025,830	1,031,820	1,008,750	974,960	5,025,060
Reclass of 40% Lewiston	(110,404)	(117,700)	(118,132)	(129,492)	(130,572)	(606,300)
Total Idaho	873,296	908,130	913,688	879,258	844,388	4,418,760

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2)5 Day Peak (3 year average 2016-2018).xlsx

2017

Washington CTP (Pipeline Vol Th)

AVISTATURBINE	(2,249)	(10,736)	(24,904)	(10,284)	(39,107)	(87,280)
COLFAX	10,240	11,030	11,830	10,390	9,460	52,950
COLTON	1,490	1,660	1,680	1,560	1,440	7,830
CONNELL	32,080	32,420	33,460	34,480	36,300	168,740
ENDICOTT	1,310	1,440	1,430	1,300	1,160	6,640
GOLDENDALE	7,790	9,020	9,430	9,310	8,670	44,220
KEYSTONE	260	280	290	290	270	1,390
LCRS	1,220	1,340	1,380	1,250	1,240	6,430
LIND	1,880	1,990	1,890	1,730	1,470	8,960
MED LAKE	44,060	44,520	44,840	43,050	42,920	219,390
MICA	163,320	168,480	178,050	165,360	153,590	828,800
NINE MILE	196,370	208,890	224,630	202,500	193,770	1,026,160
PALOUSE	4,110	4,310	4,570	4,210	3,670	20,870
PULLMAN	114,410	115,490	116,420	114,660	110,950	571,930
RITZVILLE	8,010	8,400	8,030	7,530	7,040	39,010
ROSL	1,970	2,050	2,160	2,010	1,780	9,970
SJON	2,680	2,630	2,430	2,250	1,770	11,760
SPAN	2,390	2,480	2,430	2,370	2,180	11,850
SPO MEAD	514,920	510,190	554,750	485,810	526,640	2,592,310
SPO WEST	255,020	265,340	283,230	263,960	239,490	1,307,040
SPRAGUE	1,400	1,520	1,480	1,340	1,230	6,970
STEVENS#2	2,470	2,790	2,890	2,970	2,890	14,010
STEVENSON	2,240	2,440	2,460	2,700	2,670	12,510
SWWP	414,520	466,780	475,890	470,310	367,150	2,194,650
UNIONTOWN	1,060	1,200	1,200	1,130	1,020	5,610
WARDEN (WA	23,800	22,550	20,250	23,590	23,310	113,500
WA Total	1,806,771	1,878,504	1,962,196	1,845,776	1,702,973	9,196,220
Reclass of 40% Lewiston	110,404	117,700	118,132	129,492	130,572	606,300
Total Washington	1,917,175	1,996,204	2,080,328	1,975,268	1,833,545	9,802,520

Consecutive 5-Day Peak Firm Requirement
Total Requirement by Delivery Point

Run Date 08/04/2016 15:47:19

Start Date 12/30/2015

	12/30/2015	12/31/2015	1/1/2016	1/2/2016	1/3/2016	Total
Idaho CTP (Pipeline Vol Th)						
ATHO	7830	8480	9100	9280	9040	43730
BONN	9230	9600	10950	12130	11510	53420
CHASE RD	66110	74260	77240	78450	77560	373620
CORDLENE	60480	62720	64780	68190	66270	322440
CORDLENW	47270	48760	51090	53500	52300	252920
DOVER	5340	6330	7010	7030	6730	32440
GENESEE	1920	1430	1530	1510	1770	8160
KELLOGG	29210	34880	34610	34100	29060	161860
LEWISPF1	146540	150850	185030	174870	206650	863940
LEWISTNW	34620	41670	42700	45290	36150	200430
LEWISTON	79120	87860	89050	92500	79530	428060
MCGUIRE	31880	33920	34270	34720	35780	170570
MOSCOW	50310	51230	57290	55830	41560	256220
MOYS	7260	6250	5180	6260	6070	31020
PAGE MINE	250	310	330	330	280	1500
PINEHURST	4910	6070	6510	6550	5630	29670
POST FALLS	16990	19350	21640	22650	21920	102550
RATHDRUM	64290	70020	71970	75120	76080	357480
SAGLE	2060	2350	2490	2660	2540	12100
SAND	21490	23110	26920	26990	27430	125940
SCHW	15980	15840	18300	18380	18700	87200
SMELTERVIL	2320	2930	3030	3050	2540	13870
ID Total	705410	758220	821020	829390	815100	3929140
Reclass of 40% Lewiston	(72,464)	(77,008)	(91,092)	(88,064)	(97,120)	(425,748)
Total Idaho	632,946	681,212	729,928	741,326	717,980	3,503,392

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2)5 Day Peak (3 year average 2016-2018).xlsx

2016

Washington CTP (Pipeline Vol Th)

AVISTATURBINE	0	0	0	0	-4560	-4560
COLFAX	9180	10570	10430	10650	7790	48620
COLTON	1220	1320	1420	1510	1050	6520
CONNELL	20420	11550	13990	28660	30620	105240
ENDICOTT	1020	1240	1090	1040	1010	5400
GOLDENDALE	6350	7500	7730	7660	7300	36540
KEYSTONE	180	170	180	170	170	870
LCRS	950	1140	1100	1210	1120	5520
LIND	1160	1340	1390	1600	1360	6850
MED LAKE	37390	40030	41140	40310	38260	197130
MICA	120830	133930	143260	148350	135800	682170
NINE MILE	143450	155580	175520	179580	163830	817960
PALOUSE	3840	4180	4330	4320	2990	19660
PULLMAN	97980	99780	110010	107470	84820	500060
RITZVILLE	6290	7130	7130	7430	6170	34150
ROSL	1710	2060	2130	2130	1510	9540
SJON	1990	2440	2360	2340	1790	10920
SPAN	1850	1930	1960	1910	1750	9400
SPO MEAD	313510	367140	388620	405630	356530	1831430
SPO WEST	220770	236130	248140	254520	230390	1189950
SPRAGUE	1130	1290	1350	1400	1180	6350
STEVENS#2	1950	2200	2280	2260	2370	11060
STEVENSON	1740	2220	2350	2450	2360	11120
SWWP	388090	405000	407230	412280	398440	2011040
UNIONTOWN	920	980	1060	1050	760	4770
WARDEN (WA	24060	23140	19610	17170	13190	97170
WA Total	1407980	1519990	1595810	1643100	1488000	7654880
Reclass of 40% Lewiston	72,464	77,008	91,092	88,064	97,120	425,748
Total Washington	1,480,444	1,596,998	1,686,902	1,731,164	1,585,120	8,080,628

Consecutive 5-Day Peak Firm Requirement
Total Requirement by Delivery Point

Run Date 08/04/2015 10:53:06

Start Date 01/01/2015

	1/1/2015	1/2/2015	1/3/2015	1/4/2015	1/5/2015	Total
Idaho CTP (Pipeline Vol Th)						
ATHO	4,120	3,780	3,330	2,950	2,520	16,700
BONN	11,240	9,600	8,690	8,800	8,780	47,110
CORDLENE	64,090	57,670	53,580	48,530	41,870	265,740
CORDLENW	57,170	52,480	49,290	44,670	38,140	241,750
DOVER	6,790	6,540	5,770	5,350	4,650	29,100
GENESEE	2,020	1,960	1,620	1,440	1,170	8,210
KELLOGG	32,280	28,640	25,040	23,600	21,340	130,900
LEWISPF	143,180	128,070	123,160	112,850	102,610	609,870
LEWISTNW	45,580	39,290	27,400	26,630	17,730	156,630
LEWISTON	86,940	80,260	66,610	64,830	54,670	353,310
MCGUIRE	31,410	30,620	28,600	25,470	23,740	139,840
MOSCOW	51,820	47,080	38,860	37,970	27,350	203,080
MOYS	5,980	6,210	4,450	4,890	7,590	29,120
PAGE MINE	280	240	210	190	180	1,100
PINEHURST	5,710	4,980	4,380	4,110	3,830	23,010
POST FALLS	31,800	27,380	24,510	21,960	17,620	123,270
RATHDRUM	137,140	123,270	114,910	105,250	88,400	568,970
SAGLE	2,190	2,080	1,920	1,760	1,720	9,670
SAND	24,000	23,190	20,680	19,640	18,290	105,800
SCHW	18,620	18,590	16,480	16,110	13,670	83,470
SMELTERVIL	2,480	2,110	1,890	1,690	1,750	9,920
ID Total	764,840	694,040	621,380	578,690	497,620	3,156,570
Reclass of 40% Lewiston	(75,504)	(66,944)	(60,224)	(55,792)	(48,136)	(306,600)
Total Idaho	689,336	627,096	561,156	522,898	449,484	2,849,970

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2)5 Day Peak (3 year average 2016-2018).xlsx

2015

Washington CTP (Pipeline Vol Th)

AVISTATURBINE	-	-	(3,372)	-	(58)	(3,430)
COLFAX	9,710	8,470	7,200	6,470	4,670	36,520
COLTON	1,260	1,180	960	920	670	4,990
CONNELL	13,440	30,090	32,730	30,720	31,940	138,920
ENDICOTT	1,050	1,030	870	780	510	4,240
GOLDENDALE	7,370	5,960	5,260	4,680	3,470	26,740
KEYSTONE	210	210	200	200	210	1,030
LCRS	1,090	1,030	940	770	530	4,360
LIND	1,210	1,330	1,040	1,020	820	5,420
MED LAKE	39,590	38,690	35,740	32,370	26,190	172,580
MICA	153,540	143,220	136,510	120,820	101,220	655,310
NINE MILE	154,890	146,710	139,980	122,910	110,460	674,950
PALOUSE	3,580	3,250	2,830	2,510	1,880	14,050
PULLMAN	106,390	98,040	84,790	76,530	59,340	425,090
RITZVILLE	5,900	5,980	5,290	4,670	3,370	25,210
ROSL	1,120	1,130	1,210	1,030	1,130	5,620
SJON	1,970	1,830	1,640	1,430	1,100	7,970
SPAN	2,040	1,880	1,660	1,520	1,780	8,880
SPO MEAD	370,150	335,690	307,000	248,750	202,430	1,464,020
SPO WEST	218,180	212,300	194,120	164,280	131,920	920,800
SPRAGUE	1,060	1,010	930	790	640	4,430
STEVENS#2	1,850	1,190	1,150	950	440	5,580
STEVENSON	2,830	2,320	2,370	2,060	1,630	11,210
SWWP	388,940	381,890	367,950	342,160	326,050	1,806,990
UNIONTOWN	970	890	690	660	440	3,650
WARDEN (WA)	21,200	21,680	22,510	22,080	20,980	108,450
WA Total	1,509,540	1,447,000	1,352,198	1,191,080	1,033,762	6,533,580
Reclass of 40% Lewiston	75,504	66,944	60,224	55,792	48,136	306,600
Total Washington	1,585,044	1,513,944	1,412,422	1,246,872	1,081,898	6,840,180

Avista

2)5 Day Peak (3 year average 2016-2018).xlsx

2015

Consecutive 5-Day Peak Firm Requirement
Total Requirement by Delivery Point

Run Date 04/30/2014 11:59:41

Start Date 02/03/2014

	2/3/2014	2/4/2014	2/5/2014	2/6/2014	2/7/2014	Total
Idaho CTP (Pipeline Vol Th)						
ATHO	5,460	6,270	6,880	6,320	6,120	31,050
BONN	9,820	12,460	13,050	12,680	11,350	59,360
CORDLENE	59,170	73,650	78,890	71,610	68,680	352,000
CORDLENW	53,290	64,750	70,340	64,590	61,900	314,870
DOVER	6,980	8,240	8,200	7,850	7,180	38,450
GENESEE	1,790	2,100	1,810	2,380	2,080	10,160
KELLOGG	29,970	36,910	41,470	39,670	34,780	182,800
LEWISPF	200,010	144,980	184,700	108,610	117,110	755,410
LEWISTNW	39,420	53,730	61,070	57,640	49,700	261,560
LEWISTON	66,140	85,670	97,550	90,960	77,310	417,630
MCGUIRE	33,690	40,030	40,870	37,300	34,830	186,720
MOSCOW	48,600	58,190	65,960	62,770	51,020	286,540
MOYS	8,120	9,300	9,300	9,130	7,550	43,400
PAGE MINE	220	290	320	310	280	1,420
PINEHURST	5,380	6,660	7,530	7,000	6,260	32,830
POST FALLS	24,520	36,290	37,990	31,050	28,030	157,880
RATHDRUM	89,080	93,670	191,730	176,750	166,060	717,290
SAGLE	2,380	3,110	3,060	2,720	2,590	13,860
SAND	25,870	33,480	34,630	31,980	28,150	154,110
SCHW	20,540	24,730	25,720	23,500	21,700	116,190
SMELTERVIL	2,180	2,880	3,300	3,350	2,910	14,620
ID Total	732,630	797,390	984,370	848,170	785,590	4,148,150
Reclass of 40% Lewiston	(95,772)	(79,484)	(98,308)	(66,500)	(66,724)	(406,788)
Total Idaho	636,858	717,906	886,062	781,670	718,866	3,741,362

Avista

2)5 Day Peak (3 year average 2016-2018).xlsx

2014

Washington CTP (Pipeline Vol Th)

AVISTATURBINE	(4,174)	(51,509)	(48,822)	(39,733)	(24,445)	(168,683)
COLFAX	8,750	10,550	13,170	11,190	9,990	53,650
COLTON	1,110	1,390	1,570	1,520	1,250	6,840
CONNELL	32,530	36,850	35,020	36,270	36,170	176,840
ENDICOTT	1,100	1,430	1,550	1,340	1,200	6,620
GOLDENDALE	6,410	7,700	8,830	8,950	7,900	39,790
KEYSTONE	270	270	270	270	270	1,350
LCRS	950	1,020	1,150	1,050	1,130	5,300
LIND	1,540	2,110	2,300	1,950	1,730	9,630
MED LAKE	39,790	46,320	49,120	44,820	42,660	222,710
MICA	152,780	180,580	195,830	179,510	170,450	879,150
NINE MILE	144,110	192,110	211,590	191,710	172,610	912,130
PALOUSE	3,430	4,120	4,570	4,120	3,670	19,910
PULLMAN	102,560	118,260	129,560	122,220	108,680	581,280
RITZVILLE	6,370	8,290	9,280	8,010	7,200	39,150
ROSL	1,520	1,980	2,210	1,940	1,710	9,360
SJON	1,480	1,650	1,640	1,480	1,590	7,840
SPAN	2,030	2,460	2,710	2,430	2,270	11,900
SPO MEAD	432,320	528,850	556,240	442,960	407,790	2,368,160
SPO WEST	226,910	279,740	316,660	280,470	262,370	1,366,150
SPRAGUE	1,180	1,580	1,690	1,410	1,330	7,190
STEVENS#2	2,280	2,620	2,980	3,400	3,050	14,330
STEVENSON	1,350	1,840	2,300	2,600	2,220	10,310
SWWP	330,820	419,870	482,020	481,740	454,870	2,169,320
UNIONTOWN	810	1,050	1,200	1,110	910	5,080
WARDEN (WA)	19,140	20,070	12,160	11,890	11,520	74,780
WA Total	1,517,366	1,821,201	1,996,798	1,804,627	1,690,095	8,830,087
Reclass of 40% Lewiston	95,772	79,484	98,308	66,500	66,724	406,788
Total Washington	1,613,138	1,900,685	2,095,106	1,871,127	1,756,819	9,236,875

AVISTA ALLOCATION FACTORS

NOTES 7, 8 & 9 SERVICE ALLOCATORS

Note: See electronic workpapers for supporting data.



**Interoffice Memorandum
State and Federal Regulation**

TO: Distribution

DATE: 01/26/18

FROM: Jeanne Pluth

SUBJECT: Allocation Factors

The following Four Factor Percentages should be used to allocate common operating costs and plant between utility services effective 1/1/2018.

New Service Code	New Jurisdiction Code	Old Utility Code	Description	Electric	Gas	OR Gas
CD	AA	7	No. of Customers	52.395%	33.665%	13.940%
CD	AA	7	Net Direct Plant	77.368%	14.679%	7.953%
CD	AA	7	Four Factor	70.135%	20.549%	9.316%
GD	AA	8	No. of Customers		70.717%	29.283%
GD	AA	8	Four Factor		68.562%	31.438%
CD	AN	9	No. of Customers	60.882%	39.118%	
CD	AN/WA/ID	9	Four Factor	77.715%	22.285%	

If you have any questions please call me at X2204.

Avista Utilities
Utility Allocator for CD AA (7)
Four Factor Allocation for Electric & All Gas
For the Twelve Months Ended December 31, 2017

	Total	Electric	Gas North	Oregon	Notes
Direct Non-Labor					
O&M (Accts 500-894)	\$74,561,528	\$62,492,356	\$8,088,844	\$3,980,328	(1, 2)
A&G - ED & GD (Accts 901-935)	51,344,851	35,523,672	10,602,829	5,218,350	(2)
A&G - CD (Accts 901-935)	5,153,393	3,464,837	1,688,556	-	(2)
Adjustments					
Adjustments					
Total	\$131,059,772	\$101,480,865	\$20,380,229	\$9,198,678	
Percentage	100.000%	77.431%	15.550%	7.019%	
Direct Labor					
O&M (Accts 500-894)	\$74,226,505	\$55,932,706	\$12,828,428	\$5,465,371	
A&G - ED & GD (Accts 901-935)	6,185,979	3,809,731	197,120	2,179,128	
A&G - CD (Accts 901-935)	11,137,496	7,407,915	3,729,581	-	
Total	\$91,549,980	\$67,150,352	\$16,755,129	\$7,644,499	
Percentage	100.000%	73.348%	18.302%	8.350%	
Year End Customers at 12/31/17					
Washington	413,587	250,848	162,739		
Idaho	214,302	131,425	82,877		
Oregon	101,707			101,707	
Total	729,596	382,273	245,616	101,707	
			(12,591.00)		
Percentage	100.000%	52.395%	33.665%	13.940%	
Net Direct Plant (Ending Balance at 12/31/17)					
Amount	\$3,427,085,391	\$2,651,455,641	\$503,067,746	\$272,562,004	
Percentage	100.000%	77.368%	14.679%	7.953%	
Four Factor					
Total	400.000%	280.542%	82.196%	37.262%	
Average	100.000%	70.135%	20.549%	9.316%	

(1) Excludes Resource Costs: Electric - 501, 547, 555, 557, 565 & Gas 804, 805, 808, 811

(2) Excludes Labor

Avista Utilities
Utility Allocator for GD AA (8)
Four Factor Allocation for All Gas
For the Twelve Months Ended December 31, 2017

	Total	Electric	Gas North	Oregon	Notes
Direct Non-Labor					
O&M (Accts 500-894)	\$11,502,745		\$7,709,221	\$3,793,524	(1, 2)
A&G - GD (Accts 901-935)	15,449,456		10,353,713	5,095,743	(2)
A&G - CD (Accts 901-935)	1,688,556		1,688,556	-	(2)
Total	\$28,640,757	\$0	\$19,751,490	\$8,889,267	
Percentage	100.000%	0.000%	68.963%	31.037%	
Direct Labor					
O&M (Accts 500-894)	\$13,255,885		\$9,295,618	\$3,960,267	
A&G - GD (Accts 901-935)	1,818,322		150,838	1,667,484	
A&G - CD (Accts 901-935)	3,729,581		3,729,581	-	
Total	\$18,803,788	\$0	\$13,176,037	\$5,627,751	
Percentage	100.000%	0.000%	70.071%	29.929%	
Year End Customers at 12/31/17					
#REF!	347,323		245,616	101,707	
Percentage	100.000%	0.000%	70.717%	29.283%	
Net Direct Plant (Ending Balance at 12/31/17)					
Amount	\$764,182,162		\$492,888,057	\$271,294,105	
Percentage	100.000%	0.000%	64.499%	35.501%	
Four Factor					
Total	400.000%	0.000%	274.250%	125.750%	
Average	100.000%	0.000%	68.562%	31.438%	

(1) Excludes Resource Costs: Electric - 501, 547, 555, 557, 565 & Gas 804, 805, 808, 811

(2) Excludes Labor

Avista Utilities
Utility Allocator for CD AN/ID/WA (9)
Four Factor Allocation for Electric/Gas North
For the Twelve Months Ended December 31, 2017

	Total	Electric	Gas North	Oregon	Notes
Direct Non-Labor					
O&M (Accts 500-894)	\$70,589,908	\$62,492,356	\$8,097,552		(1, 2)
A&G - ED & GD (Accts 901-935)	46,132,231	35,523,672	10,608,559		(2)
#REF!					
#REF!					
Total	\$116,722,139	\$98,016,028	\$18,706,111	\$0	
Percentage	100.000%	83.974%	16.026%	0.000%	
Direct Labor					
O&M (Accts 500-894)	\$68,682,217	\$55,932,706	\$12,749,511	\$0	
A&G - ED & GD (Accts 901-935)	4,343,072	3,809,731	533,341	0	
Total	\$73,025,289	\$59,742,437	\$13,282,852	\$0	
Percentage	100.000%	81.811%	18.189%	0.000%	
Year End Customers at 12/31/17					
#REF!	627,889	382,273	245,616	0	
Percentage	100.000%	60.882%	39.118%	0.000%	
Net Direct Plant (Ending Balance at 12/31/17)					
Amount	\$3,118,486,683	\$2,625,598,626	\$492,888,057	\$0	
Percentage	100.000%	84.195%	15.805%	0.000%	
Four Factor					
Total	400.000%	310.862%	89.138%	0.000%	
Average	100.000%	77.715%	22.285%	0.000%	

(1) Excludes Resource Costs: Electric - 501, 547, 555, 557, 565 & Gas 804, 805, 808, 811

(2) Excludes Labor

AVISTA ALLOCATION FACTORS

NOTE 4 (Electric and Natural Gas) JURISDICTION ALLOCATORS

Note: See electronic workpapers for supporting data.

Avista Utilities
 Factor No. 4 - Allocation for Gas North
 For the Twelve Months Ended December 31, 2018

	Total Gas North	Washington	Idaho	Notes
Direct Non-Labor				
O&M (Accts 500-894)	\$4,976,293	\$3,421,869	\$1,554,424	(1, 2)
A&G - ED & GD (Accts 901-935)	9,038,399	7,573,090	1,465,309	(2)
A&G - CD (Accts 901-935)	1,353,339	996,285	357,054	(2)
Net	<u>\$15,368,031</u>	<u>\$11,991,244</u>	<u>\$3,376,787</u>	
Percentage	100.000%	78.027%	21.973%	
Direct Labor				
O&M (Accts 500-894)	\$7,977,177	\$5,722,304	\$2,254,873	
A&G - ED & GD (Accts 901-935)	176,159	153,024	23,135	
A&G - CD (Accts 901-935)	2,696,524	2,290,013	406,511	
Net	<u>\$10,849,860</u>	<u>\$8,165,341</u>	<u>\$2,684,519</u>	
Percentage	100.000%	75.258%	24.742%	
Year End Customers at 12/31/18	251,894	167,009	84,885	
Percentage	100.000%	66.301%	33.699%	
Net Direct Plant (Ending Balance at 12/31/18)	\$520,317,960	\$361,630,009	\$158,687,951	
Net Direct Plant After Adjustments	<u>\$520,317,960</u>	<u>\$361,630,009</u>	<u>\$158,687,951</u>	
Percentage	100.000%	69.502%	30.498%	
Four Factor				
Total	<u>400.000%</u>	<u>289.088%</u>	<u>110.912%</u>	
Average	<u>100.000%</u>	<u>72.272%</u>	<u>27.728%</u>	

(1) Excludes Resource Costs: Accounts 804, 805, 808, 811

(2) Excludes Labor

Avista Utilities
 Factor No. 4 - Allocation for Electric
 For the Twelve Months Ended December 31, 2018

	Total Electric	Washington	Idaho	Notes
Direct Non-Labor				
O&M (Accts 500-894)	\$21,128,556	\$14,368,281	\$6,760,275	(1, 2)
A&G - ED & GD (Accts 901-935)	38,471,583	27,433,500	11,038,083	(2)
A&G - CD (Accts 901-935)	2,491,102	1,767,098	724,004	(2)
Net	<u>\$62,091,241</u>	<u>\$43,568,879</u>	<u>\$18,522,362</u>	
Percentage	100.000%	70.169%	29.831%	
Direct Labor				
O&M (Accts 500-894)	\$12,666,479	\$8,320,223	\$4,346,256	
A&G - ED & GD (Accts 901-935)	608,150	478,079	130,071	
A&G - CD (Accts 901-935)	4,730,195	3,913,792	816,403	
Net	<u>\$18,004,824</u>	<u>\$12,712,094</u>	<u>\$5,292,730</u>	
Percentage	100.000%	70.604%	29.396%	
Year End Customers at 12/31/18				
Amount	387,662	254,232	133,430	
Percentage	100.000%	65.581%	34.419%	
Net Direct Plant (Ending Balance at 12/31/18)				
Amount	\$1,184,491,489	\$805,771,742	\$378,719,747	
Total	<u>\$1,184,491,489</u>	<u>\$805,771,742</u>	<u>\$378,719,747</u>	
Percentage	100.000%	68.027%	31.973%	
Four Factor				
Total	<u>400.000%</u>	<u>274.381%</u>	<u>125.619%</u>	
Average	<u>100.000%</u>	<u>68.595%</u>	<u>31.405%</u>	

(1) Excludes Resource Costs: Accounts 501, 547, 555 & 557

(2) Excludes Labor

AVISTA ALLOCATION FACTORS

NOTE 10 Natural Gas JURISDICTION ALLOCATORS

Note: See electronic workpapers for supporting data.

Usage 12 Month-Ended

Usage Qty		201801	201802	201803	201804	201805	201806	201807	201808	201809	201810	201811	201812	Total		
GD	0101	FIRM AND GENERAL SER	10,887,981	8,516,749	8,963,246	6,385,724	2,989,311	1,501,710	1,286,736	1,008,619	1,269,665	2,846,567	5,490,291	9,409,205	60,555,805	
	0111	FIRM-LARGE GEN SERV	3,482,056	2,853,792	3,105,227	2,379,763	1,527,344	1,153,998	1,061,822	978,496	1,040,099	1,412,798	2,124,910	3,106,628	24,226,934	
	0112	FIRM-LARGE GEN SERV	3,610	3,435	3,652	34,433	30,470	77,211	69,107	52,053	111,660	76,893	42,233	1,800	506,556	
	0146	TRANSP SVC CUST GAS													-	
	0147	TRANSP SVC SPEC CON													-	
	0158	TAX ADJUSTMENT													-	
	0159	FIRM TRANS SPEC CONT													-	
	0199	MISC GAS REVENUE													-	
			14,373,647	11,373,976	12,072,125	8,799,921	4,547,125	2,732,919	2,417,665	2,039,168	2,421,424	4,336,258	7,657,435	12,517,633	85,289,296	24%
OR	0410	GENERAL RESIDENTIAL	8,420,897	6,771,931	7,374,678	5,048,939	2,974,644	1,527,475	1,163,343	986,547	1,145,266	1,864,482	4,248,351	7,410,704	48,937,257	
	0420	GEN NATURAL GAS SVC	4,526,069	3,605,602	3,895,457	2,788,042	1,698,163	1,027,034	854,382	773,519	869,381	1,136,453	2,250,269	3,868,412	27,292,783	
	0424	LARG GEN&INDUST SVC	479,565	417,141	421,529	391,014	331,408	262,764	238,675	228,114	236,028	257,204	340,460	450,555	4,054,457	
	0440	INTERRUP NAT GAS SVC	468,342	444,510	414,485	395,762	386,370	325,571	297,368	347,014	453,612	320,742	343,698	476,073	4,673,547	
	0444	SEASONAL NAT GAS SVC	74	1	-	-	109	11,294	17,234	15,568	96,945	15,531	8,125	9,391	174,272	
	0447B	SPEC CONTRACT-BIOMAS	211,289	851	7,315	4,206	7,143	-	2,905	4,101	2,106	2,563	4,066	2,228	248,773	
	0447R	SPEC CONT-RBURG FRST	304,283	329,608	299,488	327,105	299,480	281,883	275,307	255,384	281,803	254,464	253,298	197,430	3,359,533	
	0456	TRANS SVC - INTERRUPT													-	
	0460	TAX ADJUSTMENT													-	
	0499	MISC GAS REVENUE													-	
	447B	SPEC CONTRACT-BIOMAS													-	
	0447M	SPEC CONTRACT-MURPHY													-	
			14,410,519	11,569,644	12,412,953	8,955,069	5,697,317	3,436,022	2,849,214	2,610,246	3,085,141	3,851,439	7,448,268	12,414,792	88,740,622	25%
WA	0101	FIRM AND GENERAL SER	23,880,076	17,388,421	18,750,440	12,798,699	6,113,675	2,885,593	2,441,175	2,083,857	2,439,746	5,289,114	10,830,584	18,925,820	123,827,200	
	0102	RESIDENTIAL DISCOUNT	27,405	20,048	22,239	15,332	7,570	3,125	2,557	1,951	2,422	6,225	12,091	20,176	141,142	
	0111	FIRM-LARGE GEN SERV	8,000,512	6,543,419	6,783,841	5,155,334	3,139,638	1,890,738	1,576,585	1,446,384	1,606,620	2,554,354	4,314,673	14,150,239	57,162,337	
	0112	FIRM-LARGE GEN SERV	17,697	17,942	13,354	11,290	5,893	5,577	4,704	4,653	7,057	9,923	17,155	17,028	132,272	
	0121	FIRM-HI ANNUAL LOAD	482,276	406,354	422,671	351,525	292,745	274,869	256,893	270,466	267,300	316,925	380,776	(7,073,546)	(3,350,745)	
	0122	FIRM-HI ANNUAL LOAD	65,295	48,826	51,647	46,438	39,512	28,454	23,989	22,970	24,853	25,796	31,469	53,121	462,369	
	0132	INTERRUPTIBLE SERV	139,102	117,328	113,117	93,219	72,901	47,470	41,737	43,515	44,834	68,694	88,519	114,831	985,267	
	0146	TRANSP SVC CUST GAS													-	
	0147	TRANSP SVC SPEC CON													-	
	0148	HI VOL TRANSP SVC													-	
	0158	TAX ADJUSTMENT													-	
	0158A	TAX ADJUSTMENT TRIBA													-	
	0199	MISC GAS REVENUE													-	
	Total		32,612,363	24,542,337	26,157,309	18,471,838	9,671,934	5,135,826	4,347,641	3,873,796	4,392,832	8,271,031	15,675,267	26,207,669	179,359,843	51%
Total			61,396,528	47,485,957	50,642,387	36,226,828	19,916,375	11,304,767	9,614,520	8,523,210	9,899,397	16,458,728	30,780,970	51,140,094	353,389,761	

For Internal Use Only

Avista Corp
ALLOCATION FACTORS

JACKSON PRAIRIE
JURISDICTION ALLOCATOR

Subject: Allocation of Jackson Prairie Storage Project O&M and capital costs between Washington/Idaho and Oregon.

To: Kevin Christie
Don Falkner
Yvonne Cook
Rich Stevens
Craig Bertholf
Theresa Melvin
Annette Brandon
Cameron Dunlop

Date: 07/19/2010

With the assignment of a portion of Jackson Prairie capacity and deliverability to Oregon it is necessary to allocate some of the ongoing O&M and capital costs from Washington/Idaho to Oregon.

On October 31st, 2009 Avista completed its one third participation in the injection of gas for the Capacity Expansion that has been ongoing since August of 2002. This expansion leaves Avista with an increase of 1,456,000 Dth of cushion gas and 2,184,000 Dth of working gas.

The capacity expansion that has been allocated to Oregon customers since July 1, 2007 results in 174,964 Dth of cushion gas and 262,446 Dth of working gas capacity.

The remainder of the capacity expansion 1,281,036 Dth of cushion gas and 1,921,554 Dth of working gas is held by Avista Energy (AE). AE also holds 1,109,111 Dth of working gas and 104,000 Dth of deliverability from an earlier expansion.

There will be ongoing water lifting costs, which will be assigned to AE, while the other two partners finish their portion of the expansion because the contract requires equal sharing throughout the project.

On November 1st the Deliverability expansion which included ten new wells, a new Solar Taurus compressor and other station enhancements went into service. This expansion increased Avista's daily deliverability by 104,000 Dth per day. Twenty-five percent of this expansion is being allocated to Oregon customers with the balance allocated to WA/ID customers. This gives Avista a total daily withdrawal of 398,670 Dth/d less the 104,000 held by AE, or 294,670 Dth/d net withdrawals.

The allocation of costs will occur in two phases. O&M costs will be allocated to Washington/Idaho, Oregon and AE based on the capacity held by each of the participants using Avista's one third share of available capacity. Capital costs will be allocated to Washington/Idaho & Oregon based on the capacity held after the 5/01/2011 transfer of capacity from AE because none of the ongoing. The allocation percentages are as follows.

1/1/2009 through 4/30/2011 O&M	Dth (thousands)	Allocation %
JP WA & ID (AN)	5,234.666	61.38%
JP OR	262.446	3.08%
AE Capacity leased to Shell	3,030.901	35.54%
	8,528.013	100.00%

1/1/2009 through 4/30/2011 Capital	Dth (thousands)	Allocation %
JP WA & ID (AN)	7,704.676	90.35%
JP OR	823.337	9.65%
AE Capacity leased to Shell. Capital is directly assigned.	-	0.00%
	8,528.013	100.00%

Post 4/30/2011 O&M & Capital	Dth (thousands)	Allocation %
JP WA & ID (AN)	7,704.676	90.35%
JP OR	823.337	9.65%
AE Capacity leased to Shell	-	0.00%
	8,528.013	100.00%

Please use these allocation percentages as appropriate for property tax, insurance, and any other costs that should be split between the various jurisdictions.