

**AVISTA UTILITIES**

2021 Washington REC Filing

REDACTED

WORKPAPERS

March 31, 2021

**CONFIDENTIAL per WAC 480-07-160**

**REC Revenues Rebate Allocation - Generation Level Consumption**

Line No.	DESCRIPTION	TOTAL	RESIDENTIAL SCHEDULE 1, 2	GENERAL SVC. SCH. 11,12	LG. GEN. SVC. SCH. 21,22	EX LG GEN SVC SCHEDULE 25	PUMPING SCH. 30, 31, 32	ST & AREA LTG SCH. 41-48	
A	B	C	D	E	F	H	I	J	
1	<b>Generation Allocated</b>								
2	Total Generation Percentage	100.00%	42.30%	11.03%	24.30%	19.44%	2.60%	0.33%	(1)
3	Total Rebate Amount (Grossed Up)	\$ (895,470)	\$ (378,784)	\$ (98,770)	\$ (217,599)	\$ (174,079)	\$ (23,282)	\$ (2,955)	
4	Annual Load (Rate Year)	5,698,817,207	2,451,720,094	650,906,955	1,351,505,644	1,082,492,036	145,556,923	16,635,555	(2)
5	Cents Per kWh Rate		\$ (0.00015)	\$ (0.00015)	\$ (0.00016)	\$ (0.00016)	\$ (0.00016)	\$ (0.00018)	
6	Total Bills	3,142,954	2,683,058	407,127	22,440	276	30,053		
7	Avg Monthly Credit Per Customer		\$ (0.14)	\$ (0.24)	\$ (9.70)	\$ (630.72)	\$ (0.77)		
8	Avg Annual Credit Per Customer		\$ (1.69)	\$ (2.91)	\$ (116.36)	\$ (7,568.66)	\$ (9.30)		
9									
10	Proposed Cents per kWh Rate		\$ (0.00015)	\$ (0.00015)	\$ (0.00016)	\$ (0.00016)	\$ (0.00016)	\$ (0.00018)	
11	Present Cents per kWh Rate		\$ (0.00032)	\$ (0.00032)	\$ (0.00032)	\$ (0.00031)	\$ (0.00033)	\$ (0.00035)	
12	Difference in Rate		\$ 0.00017	\$ 0.00017	\$ 0.00016	\$ 0.00015	\$ 0.00017	\$ 0.00017	
13	Change in Revenue	\$ 935,825	\$ 415,304	\$ 109,496	\$ 216,130	\$ 166,891	\$ 25,185	\$ 2,818	

Present Billed Revenue	\$ 541,348,000	\$ 231,769,000	\$ 81,585,000	\$ 139,799,000	\$ 68,523,000	\$ 12,809,000	\$ 6,863,000
Billed Percentage Change	0.2%	0.2%	0.1%	0.2%	0.2%	0.2%	0.04%
Residential Bill Impact (914 kWh's)		\$ 0.16					
Residential Bill Percentage Change		0.2%					

- (1) UE-190334 Cost of Service Study  
E02 Generation Allocator
- (2) July 1, 2021 through June 30, 2022 Forecasted Loads (input)

<u>Present Bill</u>	
Basic Charge	\$ 9.00
1st 800 kWhs	\$ 0.08760
Next 700 kWhs	\$ 0.09400
Bill at 918 kWhs	\$ 89.80
Plus Bill Impact	\$ 0.16
Proposed Bill after Rate Adjustment	\$ 89.96

**CONFIDENTIAL per WAC 480-07-160**

Gray shaded box is Confidential per WAC-480-07-160

	<u>aMW</u>	<u>Rate</u>	<u>Total</u>	<u>Mar-21</u>	<u>Apr-21</u>	<u>May-21</u>	<u>Jun-21</u>
Morgan Stanley Interstate Gas							
<b>System Total</b>			<b>(\$1,414,803)</b>				
<b>PT Ratio</b>				65.73%	65.73%	65.73%	65.73%
				\$302,395	\$174,491	\$245,095	\$207,968
<b>Washington Share</b>	UE-170485	<b>65.73%</b>	-\$302,395	-\$174,491	-\$245,095	-\$207,968	-\$207,968
Gross Up Factor	UE-190334	<b>0.955631</b>	0.955631	0.955631	0.955631	0.955631	0.955631
<b>Grossed Up Revenue Requirement</b>			<b>(\$973,127)</b>	<b>(\$316,435)</b>	<b>(\$182,593)</b>	<b>(\$256,475)</b>	<b>(\$217,624)</b>

CONFIDENTIAL per WAC 480-07-160

Gray shaded box is Confidential per WAC-480-07-160

			<u>Total</u>	<u>Jul-21</u>	<u>Aug-21</u>	<u>Sep-21</u>	<u>Oct-21</u>	<u>Nov-21</u>	<u>Dec-21</u>	<u>Jan-22</u>	<u>Feb-22</u>	<u>Mar-22</u>	<u>Apr-22</u>	<u>May-22</u>	<u>Jun-22</u>
Morgan Stanley															
Shell															
Interstate Gas															
<b>System Total</b>			<b>(\$1,012,502)</b>												
<b>PT Ratio<sup>1</sup></b>	UE-170485	<b>65.73%</b>	\$131,372	\$75,794	\$93,405	\$158,963	\$187,908	\$4,930	\$13,146	\$0	\$0	\$0	\$0	\$0	\$0
<b>Washington Share</b>		<b>(\$665,518)</b>													
Forecast End of June Balance		<b>(\$173,655)</b>													
<b>REC Balance to be Recovered</b>		<b>(\$839,173)</b>													
<b>Forecasted Interest Calculation</b>		<b>(\$16,566)</b>													
<b>Total REC Balance to be Recovered</b>		<b>(\$855,739)</b>													
Gross Up Factor	UE-190334	<b>0.955631</b>													
<b>Grossed Up Revenue Requirement</b>		<b>(\$895,470)</b>													

<sup>1</sup>Remains consistent with ERM Authorized Power Supply Base

	2020	2021	2021	2021	2021	2021	2021	Compound	2021	2021	2021	2021	Compound	2022	2022	2022	2022	2022	
	End December	End January	End February	End March	End April	End May	End June	End July	End August	End Septembe	End October	End Novembe	End Decembe	End January	End February	End March	End April	End May	End June
Expected net elec REC Amortization credit	\$ -	\$ (159,385)	\$ (152,444)	\$ (147,413)	\$ (129,178)	\$ (126,729)	\$ (128,301)	\$ (73,145)	\$ (73,179)	\$ (62,311)	\$ (66,665)	\$ (74,332)	\$ (85,624)	\$ (85,041)	\$ (72,782)	\$ (72,440)	\$ (63,830)	\$ (62,756)	\$ (63,631)
Forecast Annual REC Sales	\$ -	\$ 313,849	\$ 171,252	\$ 302,395	\$ 174,491	\$ 245,095	\$ 207,968	\$ 131,372	\$ 75,794	\$ 93,405	\$ 158,963	\$ 187,908	\$ 4,930	\$ 13,146	\$ -	\$ -	\$ -	\$ -	\$ -
Net change in balance	\$ -	\$ 154,464	\$ 18,808	\$ 154,982	\$ 45,314	\$ 118,366	\$ 79,667	\$ 58,227	\$ 2,615	\$ 31,093	\$ 92,297	\$ 113,576	\$ (80,694)	\$ (71,895)	\$ (72,782)	\$ (72,440)	\$ (63,830)	\$ (62,756)	\$ (63,631)
Cumulative Balance (Before Interest)	\$ -	\$ (240,367)	\$ (221,559)	\$ (66,577)	\$ (21,263)	\$ 97,103	\$ 176,770	\$ 231,882	\$ 234,497	\$ 265,590	\$ 357,888	\$ 471,464	\$ 390,769	\$ 329,097	\$ 256,314	\$ 183,874	\$ 120,044	\$ 57,288	\$ (6,343)
Interest	\$ -	\$ (1,761)	\$ (1,281)	\$ (799)	\$ (244)	\$ 210	\$ 759	\$ 1,124	\$ 1,293	\$ 1,386	\$ 1,729	\$ 2,299	\$ 2,391	\$ 2,024	\$ 1,623	\$ 1,220	\$ 843	\$ 492	\$ 141
REC Revenue Balance	\$ (394,831)	\$ (242,128)	\$ (224,601)	\$ (70,417)	\$ (25,347)	\$ 93,229	\$ 173,655	\$ 233,007	\$ 236,914	\$ 269,394	\$ 363,420	\$ 479,295	\$ 400,992	\$ 331,121	\$ 259,961	\$ 188,742	\$ 125,754	\$ 63,490	\$ 0
Acct 186324	\$ (479,145)																		
Acct 186322	\$ 873,976																		
Balance Sheet	\$ 394,831																		

Projected end of June 2021 Balance	\$ 173,655
July 2021 - June 2022 REC Revenue Forecast	\$ 665,518
July 2021 - June 2022 Amortization Credit	\$ (855,739)
Interest on Previous Months Balance	\$ 16,566
Total Projected REC Balance as of June 2022	\$ -

UE-190334  
4/1/2020

Per rate order, REC rate is after tax cost of capital	6.654%
The monthly rate is:	0.0055450

(Formulas from kWh Forecast)

Forecasted Usage	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22
Residential Schedule 001/002	225,860,775	170,557,105	152,880,840	151,858,701	189,596,314	187,240,830	151,586,145	177,162,600	229,806,275	290,814,454	287,033,819	231,639,149	222,030,514	174,568,506	156,809,392	153,432,095
General Svc Schedule 011/012	54,994,600	48,000,367	47,044,590	47,482,777	56,365,549	56,288,593	46,710,340	50,451,088	56,306,995	65,172,858	64,923,243	55,118,263	56,037,871	48,080,604	47,284,400	48,167,151
Large Gen Svc Schedule 021/022	110,319,888	104,699,607	108,013,473	108,289,464	122,712,747	120,967,999	105,156,356	113,042,839	113,358,893	120,980,031	119,487,923	104,450,050	111,333,016	103,360,491	107,457,327	109,197,973
Extra Large Gen Schedule 25	82,356,668	88,224,328	89,240,917	89,287,625	89,688,749	93,566,562	91,074,647	91,093,486	89,827,168	89,249,549	90,805,368	89,087,363	87,528,062	89,785,501	90,024,233	90,761,348
Pumping Schedule 31/32	5,032,239	8,120,747	14,366,316	19,566,847	26,667,748	27,104,330	17,937,487	10,247,528	4,964,923	4,332,940	4,377,352	3,920,852	4,712,200	7,547,047	14,046,468	19,698,049
Street and Area Lights	1,399,315	1,386,695	1,402,382	1,405,586	1,407,213	1,400,545	1,413,588	1,379,978	1,374,672	1,439,900	1,413,855	1,349,094	1,363,826	1,353,199	1,369,167	1,370,517
<b>Total Forecasted Usage</b>	<b>479,963,485</b>	<b>420,988,849</b>	<b>412,948,518</b>	<b>417,890,999</b>	<b>486,438,321</b>	<b>486,568,859</b>	<b>413,878,564</b>	<b>443,377,518</b>	<b>495,638,925</b>	<b>571,989,732</b>	<b>568,041,560</b>	<b>485,564,771</b>	<b>483,005,489</b>	<b>424,695,348</b>	<b>416,990,987</b>	<b>422,627,132</b>

REC Revenue Amortization Rates	Present								Proposed							
Residential Schedule 001/002	-0.00032	-0.00032	-0.00032	-0.00032	-0.00015	-0.00015	-0.00015	-0.00015	-0.00015	-0.00015	-0.00015	-0.00015	-0.00015	-0.00015	-0.00015	-0.00015
General Svc Schedule 011/012	-0.00032	-0.00032	-0.00032	-0.00032	-0.00015	-0.00015	-0.00015	-0.00015	-0.00015	-0.00015	-0.00015	-0.00015	-0.00015	-0.00015	-0.00015	-0.00015
Large Gen Svc Schedule 021/022	-0.00032	-0.00032	-0.00032	-0.00032	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016
Extra Large Gen Schedule 25	-0.00031	-0.00031	-0.00031	-0.00031	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016
Pumping Schedule 31/32	-0.00033	-0.00033	-0.00033	-0.00033	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016
Street and Area Lights	-0.00035	-0.00035	-0.00035	-0.00035	-0.00018	-0.00018	-0.00018	-0.00018	-0.00018	-0.00018	-0.00018	-0.00018	-0.00018	-0.00018	-0.00018	-0.00018

Gross REC Revenue Amortization Credit	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22
Residential Schedule 001	\$ (73,154)	\$ (55,242)	\$ (49,517)	\$ (49,186)	\$ (29,292)	\$ (28,928)	\$ (23,420)	\$ (27,371)	\$ (35,504)	\$ (44,930)	\$ (44,346)	\$ (35,788)	\$ (34,303)	\$ (26,970)	\$ (24,227)	\$ (23,705)
General Svc Schedule 011/012	\$ (17,596)	\$ (15,358)	\$ (15,053)	\$ (15,193)	\$ (8,553)	\$ (8,541)	\$ (7,088)	\$ (7,656)	\$ (8,544)	\$ (9,889)	\$ (9,852)	\$ (8,364)	\$ (8,503)	\$ (7,296)	\$ (7,175)	\$ (7,309)
Large Gen Svc Schedule 021/022	\$ (35,404)	\$ (33,601)	\$ (34,664)	\$ (34,753)	\$ (19,757)	\$ (19,476)	\$ (16,931)	\$ (18,200)	\$ (18,251)	\$ (19,478)	\$ (19,238)	\$ (16,817)	\$ (17,925)	\$ (16,642)	\$ (17,301)	\$ (17,581)
Extra Large Gen Schedule 25	\$ (25,941)	\$ (27,789)	\$ (28,110)	\$ (28,124)	\$ (14,423)	\$ (15,047)	\$ (14,646)	\$ (14,649)	\$ (14,445)	\$ (14,353)	\$ (14,603)	\$ (14,326)	\$ (14,076)	\$ (14,439)	\$ (14,477)	\$ (14,596)
Pumping Schedule 31/32	\$ (1,676)	\$ (2,704)	\$ (4,784)	\$ (6,515)	\$ (4,266)	\$ (4,335)	\$ (2,869)	\$ (1,639)	\$ (794)	\$ (693)	\$ (700)	\$ (627)	\$ (754)	\$ (1,207)	\$ (2,247)	\$ (3,151)
Street and Area Lights	\$ (486)	\$ (481)	\$ (487)	\$ (488)	\$ (250)	\$ (249)	\$ (251)	\$ (245)	\$ (244)	\$ (256)	\$ (251)	\$ (240)	\$ (242)	\$ (240)	\$ (243)	\$ (243)
<b>Total</b>	<b>\$ (154,257)</b>	<b>\$ (135,175)</b>	<b>\$ (132,613)</b>	<b>\$ (134,258)</b>	<b>\$ (76,541)</b>	<b>\$ (76,577)</b>	<b>\$ (65,205)</b>	<b>\$ (69,760)</b>	<b>\$ (77,784)</b>	<b>\$ (89,599)</b>	<b>\$ (88,990)</b>	<b>\$ (76,162)</b>	<b>\$ (75,803)</b>	<b>\$ (66,794)</b>	<b>\$ (65,670)</b>	<b>\$ (66,585)</b>

Net REC Revenue Amortization Credit	0.955631	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22
Residential Schedule 001	\$ (69,908)	\$ (52,791)	\$ (47,320)	\$ (47,003)	\$ (27,992)	\$ (27,645)	\$ (22,381)	\$ (26,157)	\$ (33,929)	\$ (42,936)	\$ (42,378)	\$ (34,200)	\$ (32,781)	\$ (25,774)	\$ (23,152)	\$ (22,653)	
General Svc Schedule 011/012	\$ (16,816)	\$ (14,677)	\$ (14,385)	\$ (14,519)	\$ (8,174)	\$ (8,162)	\$ (6,773)	\$ (7,316)	\$ (8,165)	\$ (9,451)	\$ (9,415)	\$ (7,993)	\$ (8,126)	\$ (6,972)	\$ (6,857)	\$ (6,985)	
Large Gen Svc Schedule 021/022	\$ (33,833)	\$ (32,110)	\$ (33,126)	\$ (33,211)	\$ (18,881)	\$ (18,612)	\$ (16,179)	\$ (17,393)	\$ (17,442)	\$ (18,614)	\$ (18,385)	\$ (16,071)	\$ (17,130)	\$ (15,903)	\$ (16,534)	\$ (16,801)	
Extra Large Gen Schedule 25	\$ (24,790)	\$ (26,556)	\$ (26,862)	\$ (26,877)	\$ (13,783)	\$ (14,379)	\$ (13,996)	\$ (13,999)	\$ (13,804)	\$ (13,716)	\$ (13,955)	\$ (13,691)	\$ (13,451)	\$ (13,798)	\$ (13,835)	\$ (13,948)	
Pumping Schedule 31/32	\$ (1,601)	\$ (2,584)	\$ (4,571)	\$ (6,226)	\$ (4,076)	\$ (4,143)	\$ (2,742)	\$ (1,566)	\$ (759)	\$ (662)	\$ (669)	\$ (599)	\$ (720)	\$ (1,154)	\$ (2,147)	\$ (3,011)	
Street and Area Lights	\$ (464)	\$ (460)	\$ (465)	\$ (466)	\$ (239)	\$ (238)	\$ (240)	\$ (234)	\$ (233)	\$ (244)	\$ (240)	\$ (229)	\$ (232)	\$ (230)	\$ (232)	\$ (233)	
<b>Total</b>	<b>\$ (147,413)</b>	<b>\$ (129,178)</b>	<b>\$ (126,729)</b>	<b>\$ (128,301)</b>	<b>\$ (73,145)</b>	<b>\$ (73,179)</b>	<b>\$ (62,311)</b>	<b>\$ (66,665)</b>	<b>\$ (74,332)</b>	<b>\$ (85,624)</b>	<b>\$ (85,041)</b>	<b>\$ (72,782)</b>	<b>\$ (72,440)</b>	<b>\$ (63,830)</b>	<b>\$ (62,756)</b>	<b>\$ (63,631)</b>	

**Load**  
(Calendar Energy Usage by Rate Scheduled)

	Mar 21	Apr 21	May 21	Jun 21	Jul 21	Aug 21	Sep 21	Oct 21	Nov 21	Dec 19	Jan 22	Feb 22	Mar 22	Apr 22	May 22	Jun 22	Total
WA001/WA002	225,860,775	170,557,105	152,880,840	151,858,701	189,596,314	187,240,830	151,586,145	177,162,600	229,806,275	290,814,454	287,033,819	231,639,149	222,030,514	174,568,506	156,809,392	153,432,095	2,451,720,094
WA011	49,041,087	43,408,102	43,004,950	43,651,088	52,015,347	52,005,777	42,831,165	45,779,040	50,526,170	57,991,726	57,599,785	48,928,027	50,047,463	43,391,830	43,059,546	44,127,769	588,303,644
WA012	5,953,512	4,592,265	4,039,640	3,831,689	4,350,202	4,282,817	3,879,174	4,672,048	5,780,826	7,181,132	7,323,458	6,190,236	5,990,408	4,688,774	4,224,854	4,039,382	62,603,311
WA021	107,464,233	102,389,522	105,835,913	106,150,651	120,198,314	118,460,755	102,999,344	110,621,476	110,580,847	117,674,579	116,149,834	101,621,511	108,537,020	101,033,828	105,234,218	107,007,787	1,320,119,514
WA022	2,855,655	2,310,084	2,177,560	2,138,813	2,514,433	2,507,244	2,157,012	2,421,363	2,778,046	3,305,452	3,338,089	2,828,539	2,795,996	2,326,663	2,223,109	2,190,186	31,386,131
WA025	82,356,668	88,224,328	89,240,917	89,287,625	89,688,749	93,566,562	91,074,647	91,093,486	89,827,168	89,249,549	90,805,368	89,087,363	87,528,062	89,785,501	90,024,233	90,761,348	1,082,492,036
WA031	4,745,373	7,683,098	13,629,126	18,424,109	24,932,981	25,478,153	16,950,083	9,724,234	4,668,965	4,029,804	4,062,266	3,653,492	4,431,367	7,124,314	13,323,069	18,577,139	136,955,868
WA032	286,866	437,649	737,189	1,142,738	1,734,768	1,626,177	987,404	523,293	295,958	303,136	315,085	267,360	280,833	422,732	723,399	1,120,910	8,601,055
WA04X	1,399,315	1,386,695	1,402,382	1,405,586	1,407,213	1,400,545	1,413,588	1,379,978	1,374,672	1,439,900	1,413,855	1,349,094	1,363,826	1,353,199	1,369,167	1,370,517	16,635,555
Total	479,963,485	420,988,849	412,948,518	417,890,999	486,438,321	486,568,859	413,878,564	443,377,518	495,638,925	571,989,732	568,041,560	485,564,771	483,005,489	424,695,348	416,990,987	422,627,132	5,698,817,207

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**Bills**  
(Total Customers by Rate Schedule)

	Mar 21	Apr 21	May 21	Jun 21	Jul 21	Aug 21	Sep 21	Oct 21	Nov 21	Dec 19	Jan 22	Feb 22	Mar 22	Apr 22	May 22	Jun 22	Total
WA001	222,361	222,336	222,014	221,580	221,950	222,061	222,709	223,311	223,773	224,163	224,450	224,409	224,346	224,287	223,986	223,613	2,683,058
WA011	23,535	23,541	23,528	23,574	23,552	23,590	23,595	23,644	23,664	23,712	23,767	23,781	23,782	23,798	23,787	23,827	284,493
WA012	10,045	10,071	10,123	10,085	10,089	10,160	10,172	10,170	10,193	10,253	10,229	10,241	10,284	10,280	10,266	10,297	122,634
WA021	1,833	1,827	1,823	1,826	1,822	1,821	1,821	1,826	1,818	1,829	1,828	1,827	1,823	1,822	1,822	1,823	21,882
WA022	47	47	47	47	46	46	46	46	46	47	47	47	47	47	47	47	558
WA025	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	276
WA031	1,270	1,270	1,268	1,272	1,271	1,274	1,273	1,273	1,275	1,276	1,276	1,276	1,277	1,278	1,279	1,280	15,307
WA032	1,226	1,225	1,226	1,228	1,230	1,229	1,230	1,230	1,231	1,227	1,228	1,228	1,228	1,228	1,229	1,229	14,746
WA04X	451	452	453	454	455	456	457	458	459	460	461	462	463	465	466	467	5,531
Total	260,791	260,792	260,504	260,088	260,438	260,661	261,326	261,982	262,482	262,989	263,308	263,293	263,273	263,227	262,903	262,603	3,148,485

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**AVISTA UTILITIES  
 CALCULATION OF CONVERSION FACTOR: WASHINGTON ELECTRIC  
 TWELVE MONTHS ENDED DECEMBER 31, 2018 (Effective 04/01/20)**

		<b>Approved In UE-190334</b>
Revenue:		1.000000
Expense:		
Uncollectibles (1)		0.003782
Commission Fees (2)		0.002000
Washington Excise Tax (3)		0.038587
Total Expense		<u>0.044369</u>
Net Operating Income Before FIT		<b>0.955631</b>
Federal Income Tax @	21.00%	0.200683
REVENUE CONVERSION FACTOR		<u>0.754948</u>

Proposed Bill after Rate Adjustment