

**KCP&L GMO - Steam
Case No. HR-2005-0436**

<u>Qtr/Year</u>	<u>QCA Rate</u>	<u>Qtr/Year</u>	<u>Recon Rate</u>	<u>Cumulative Rate</u>	
Q115	(0.4322)	Q413	(0.0056)	(1.0652)	
Q215	(0.3904)	Q114	(0.0010)	(1.3165)	
Q315	(0.3237)	Q214	(0.0004)	(1.4403)	
Q415	(0.4396)	Q314	0.0051	(1.5878)	
Q116	(0.4843)	Q414	0.0075	(1.6268)	
Q216	(0.4781)	Q115	0.0094	(1.7041)	
Q316	(0.3357)	Q215	0.0008	(1.7149)	
Q416	(0.3722)	Q315	(0.0061)	(1.6587)	
Q117	(0.3986)	Q415	(0.0093)	(1.5898)	
Q217	(0.3596)	Q116	(0.0133)	(1.4940)	
Q317	(0.3869)	Q216	(0.0177)	(1.5637)	
Q417	(0.4661)	Q316	(0.0150)	(1.6665)	effective Mar-2018
Q118	(0.4269)	Q416	(0.0117)	(1.6972)	effective Jun-2018
Q218	(0.4319)	Q117	0.0012	(1.7550)	effective Sep-2018
Q318	(0.4092)	Q217	0.0136	(1.7460)	effective Dec-2018
Q418	(0.2328)	Q317	0.0275	(1.4702)	effective Mar-2019
Q119	(0.4111)	Q417	0.0391	(1.4036)	effective Jun-2019
Q219	(0.4835)	Q118	0.0237	(1.4327)	effective Sep-2019
Four quarters:	(1.5366)		0.1039	(1.4327)	

		Q218			Q318			Q418			Q119			
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
Total Steam mmBtu Sales - 2018-2019		237,083	219,071	212,897	214,979	220,497	190,263	235,586	244,830	253,121	259,759	240,633	227,449	
Fuel Costs		\$ 622,843	\$ 534,113	\$ 553,275	\$ 574,867	\$ 592,453	\$ 506,610	\$ 809,351	\$ 1,012,565	\$ 896,596	\$ 613,604	\$ 872,971	\$ 753,578	
Coal Costs		\$ 269,635	\$ 308,140	\$ 306,015	\$ 297,275	\$ 342,608	\$ 154,254	-	13,221	354,022	196,340	537,302	225,133	
Gas Costs		\$ 343,401	\$ 225,973	\$ 247,259	\$ 277,592	\$ 249,845	\$ 352,356	809,351	999,256	542,574	399,533	327,721	429,560	
Oil Costs		\$ 9,807		-					88		17,731	7,948	98,885	
Hedge Costs		\$												
Coal mmBtu Input Blr Nos. 5		mmBtu 131,547	148,151	147,086	141,890	164,481	72,494	-	6,679	173,628	190,352	165,466	109,480	
Gas mmBtu Input Blr Nos. 1-5 & 8		mmBtu 137,783	103,737	102,640	109,577	100,948	163,436	285,168	273,775	134,757	132,392	123,872	160,534	
No. 2 Oil mmBtu Input Blr Nos. 1-4		mmBtu 661	-	-	-	-	-		4		1,177	526	6,569	
Blr 1-5 Fuel to Steam Input		mmBtu 269,991	251,888	249,726	251,467	265,429	235,930	285,168	280,458	308,385	323,921	289,864	276,583	
Production Test - Q1 (current quarter)		mmBtu		426,784	33,216		378,865	4,468		180,307	3,693		465,298	
Production Test - Q4 (four quarters)		mmBtu		1,922,693	0		1,849,267	0		1,523,601	33,440		1,484,694	
Production Coal Costs - Q1				2.0708			2.0961			2.0368			2.0606	
Production Coal Costs - Q4				2.5473			2.0580			2.0626			2.0699	
Production Gas Costs - Q1				2.3728			2.3526			3.3893			2.7755	
Production Gas Costs - Q4				2.5070			2.4396			2.7721			2.8461	
Appendix D														
Adjusted Production Standards - Q1		mmBtu		460,000			383,333			184,000			460,000	
Adjusted Production Standards - Q4		mmBtu		1,920,000			1,841,096			1,557,041			1,557,041	
Production Standards - Q1		mmBtu		460,000			460,000			460,000			460,000	
Production Standards - Q4		mmBtu		1,920,000			1,920,000			1,920,000			1,920,000	
12 Months Actual Sales Test % (min 2,594,975 sales)				100.0000%			100.0000%			100.0000%			100.0000%	
Days Boiler #5 had Major Maintenance - scheduled outage only		0	0	0	0	0	15	31	23	0	0	0	0	
Boiler #5 Major Maintenance Adjustment Q1				100.0000%			83.3333%			40.0000%			100.0000%	
Boiler #5 Major Maintenance Adjustment Q4				100.0000%			95.8904%			81.0959%			81.0959%	
Quarterly Fuel Costs - Actual		\$	Q1	Q4	1,710,231	Q1	Q4	1,673,930	Q1	Q4	2,718,512	Q1	Q4	2,240,153
Production Standards - Coal			68,784	0	68,784	9,366	0	9,366	7,522	68,974	68,974	0	149,751	149,751
Production Standards - Gas			(78,816)	0	(78,816)	(10,512)	0	(10,512)	(12,517)	(92,699)	(92,699)	0	(205,906)	(205,906)
Quarterly Fuel Costs - Adjusted		\$	(10,032)	0	1,700,199	(1,146)	0	1,672,784	(4,995)	(23,725)	2,694,787	0	(56,155)	2,183,998
Quarterly Blr 1-5 & 8 Fuel to Steam Input		mmBtu			771,605			752,826			874,011			890,368
					2.20			2.22			3.08			2.45
Base fuel amount (per million BTU)		mmBtu	3.9500	3.9500	3.9500	3.9500	3.9500	3.9500	3.9500	3.9500	3.9500	3.9500	3.9500	
Quarterly Fuel Costs - Collected		\$			3,047,840			2,973,663			3,452,343			3,516,954
(Over) or Under Collected Fuel Costs		\$			(1,347,641)			(1,300,879)			(757,557)			(1,332,956)
85% of change in actual fuel costs		\$			(1,145,495)			(1,105,747)			(643,923)			(1,133,013)
Rolling 12-months Steam Btu Sales		mmBtu			2,651,960			2,702,107			2,766,196			2,756,168
Quarterly Cost Adjustment					(0.4319)			(0.4092)			(0.2328)			(0.4111)
Cumulative - QCA					(1.7118)			(1.7341)			(1.5008)			(1.4850)

		Q219			Q319			Q419			Q120		
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Total Steam mmBtu Sales - 2019-2020		238,218	228,185	208,387									
Fuel Costs	\$	585,189	568,940	497,318									
Coal Costs	\$	324,960	356,183	341,211									
Gas Costs	\$	260,229	212,757	156,107									
Oil Costs	\$												
Hedge Costs	\$												
Coal mmBtu Input Blr Nos. 5	mmBtu	158,757	173,550	164,203									
Gas mmBtu Input Blr Nos. 1-5 & 8	mmBtu	129,219	102,609	87,512									
No. 2 Oil mmBtu Input Blr Nos. 1-4	mmBtu	-	-	-									
Blr 1-5 Fuel to Steam Input	mmBtu	287,976	276,159	251,715									
Production Test - Q1 (current quarter)	mmBtu			496,510	0								
Production Test - Q4 (four quarters)	mmBtu			1,626,767	0								
Production Coal Costs - Q1				2,0591									
Production Coal Costs - Q4				2,4797									
Production Gas Costs - Q1				1,9700									
Production Gas Costs - Q4				2,7813									
Appendix D													
Adjusted Production Standards - Q1	mmBtu			460,000									
Adjusted Production Standards - Q4	mmBtu			1,557,041									
Production Standards - Q1	mmBtu			460,000									
Production Standards - Q4	mmBtu			1,920,000									
12 Months Actual Sales Test % (min 2,594,975 sales)				100.0000%									
Days Boiler #5 had Major Maintenance - scheduled outage only		0	0	0									
Boiler #5 Major Maintenance Adjustment Q1				100.0000%									
Boiler #5 Major Maintenance Adjustment Q4				81.0959%									
Quarterly Fuel Costs - Actual	\$	Q1	Q4	1,651,447									
Production Standards - Coal		0	0	0									
Production Standards - Gas		0	0	0									
Quarterly Fuel Costs - Adjusted	\$	0	0	1,651,447									
Quarterly Blr 1-5 & 8 Fuel to Steam Input	mmBtu			815,850									
Base fuel amount (per million BTU)	mmBtu	3.9500	3.9500	3.9500									
Quarterly Fuel Costs - Collected	\$			3,222,608									
(Over) or Under Collected Fuel Costs	\$			(1,571,161)									
85% of change in actual fuel costs	\$			(1,335,486)									
Rolling 12-months Steam Btu Sales	mmBtu		-	2,761,907									
Quarterly Cost Adjustment				(0.4835)									
Cumulative - QCA				(1.5366)									

Total Steam mmBtu Sales - 12-month rolling total

	<u>2016</u>	<u>15-16 rolling</u>	<u>2017</u>	<u>16-17 rolling</u>	<u>2018</u>	<u>17-18 rolling</u>	<u>2019</u>	<u>18-19 rolling</u>
January	243,642		239,472		253,851		259,759	
February	230,350		214,673		228,382		240,633	
March	243,120	2,679,975	226,401	2,632,064	255,636	2,617,316	227,449	2,756,168
April	229,452		219,250		237,083		238,218	
May	228,887		214,477		219,071		228,185	
June	216,287	2,688,803	200,680	2,591,845 *	212,897	2,651,960	208,387	2,761,907
July	203,604		194,024		214,979			
August	192,981		203,091		220,497			
September	205,601	2,665,771	178,477	2,565,251 *	190,263	2,702,107		
October	224,840		215,896		235,586			
November	218,519		213,520		244,830			
December	231,347	2,668,630	240,032	2,559,993 *	253,121	2,766,196		

*12-months actual sales test, minimum 2,594,975 sales

KCP&L GMO - STEAM QCA RECON
GL A/C 254002

Fuel Costs - Recovered with Quarterly Cost Adjustment Table Factor:

	ck	(0.2328) Q418	(0.4092) Q318	(0.4319) Q218	(0.4269) Q118	(0.4661) Q417	(0.3869) Q317	(0.3596) Q217	(0.3986) Q117	(0.3722) Q416
Dec-16	373STMQCA									(993,234)
Mar-17	373STMQCA								(1,049,063)	
Jun-17	373STMQCA							(931,924)		
Sep-17	373STMQCA						(992,455)			
Dec-17	373STMQCA					(1,193,304)				
Mar-18	373STMQCA				(1,117,357)					
Jun-18	373STMQCA			(1,145,495)						
Sep-18	373STMQCA		(1,105,747)							
Dec-18	373STMQCA	(643,923)								

Usage Month	Billed Month	Billed per CIS+	MMBTU										
Mar-17	Apr-17	\$ 375,531.36	226,401	-							84,266.45		
Apr-17	May-17	\$ 363,669.97	219,250	-							81,604.85		
May-17	Jun-17	\$ 355,753.00	214,477	-							79,828.34		
Transfer Q414 Bal to Q116 r factor													
Jun-17	Jul-17	\$ 319,041.07	200,680	-					79,991.05		74,693.10		
Jul-17	Aug-17	\$ 308,459.34	194,024	-					77,337.97		72,215.73		
Aug-17	Sep-17	\$ 322,874.07	203,091	-					80,952.07		75,590.47		
Transfer Q115 Bal to Q216 r factor													
Sep-17	Oct-17	\$ 266,644.64	178,477	-				64,180.33	71,140.93		66,429.14		
Oct-17	Nov-17	\$ 322,548.62	215,896	-				77,636.20	86,056.15		80,356.49		
Nov-17	Dec-17	\$ 318,998.89	213,520	-				76,781.79	85,109.07		79,472.14		
Transfer Q215 Bal to Q316 r factor													
Dec-17	Jan-18	\$ 375,338.04	240,032	-				92,868.38	86,315.51	95,676.76	89,339.89		
Jan-18	Feb-18	\$ 396,946.81	253,851	-				98,214.95	91,284.82	101,185.01	94,483.35		
Feb-18	Mar-18	\$ 357,120.93	228,382	-				88,361.00	82,126.17	91,033.07	85,003.77		
Transfer Q315 Bal to Q416 r factor											(545.89)		
Mar-18	Apr-18	\$ 426,017.40	255,636	-		119,151.94	98,905.57	91,926.71	101,896.51				
Apr-18	May-18	\$ 395,098.82	237,083	-		110,504.39	91,727.41	85,255.05	94,501.28				
May-18	Jun-18	\$ 365,081.83	219,071	-		102,108.99	84,758.57	78,777.93	87,321.71				
Transfer Q415 Bal to Q117 r factor										29.77			
Jun-18	Jul-18	\$ 361,328.79	212,897	-	90,885.73	99,231.29	82,369.85	76,557.76					
Jul-18	Aug-18	\$ 364,862.36	214,979	-	91,774.54	100,201.71	83,175.38	77,306.44					
Aug-18	Sep-18	\$ 377,313.98	220,497	(3,086.47)	94,130.17	102,773.65	85,310.29	79,290.72					
Transfer Q116 Bal to Q217 r factor									1,190.66				
Sep-18	Oct-18	\$ 333,911.58	190,263	-	82,174.59	81,223.27	88,681.58	73,612.77					
Oct-18	Nov-18	\$ 410,366.98	235,586	3,086.47	101,749.59	100,571.66	109,806.63	91,148.25					
Nov-18	Dec-18	\$ 429,186.55	244,830	490.10	105,742.08	104,517.93	114,115.26	94,724.73					
Transfer Q216 Bal to Q317 r factor									3,356.28				
Dec-18	Jan-19	\$ 441,949.27	253,121	-	103,577.11	109,322.96	108,057.35	117,979.71					
Jan-19	Feb-19	\$ 453,539.21	259,759	-	106,293.38	112,189.91	110,891.12	121,073.66					
Feb-19	Mar-19	\$ 420,145.21	240,633	-	98,467.02	103,929.39	102,726.23	112,159.03					
Transfer Q316 Bal to Q417 r factor									3,371.22				
Mar-19	Apr-19	\$ 334,395.51	227,449	-	52,950.13	93,072.13	98,235.22	97,097.98					
Apr-19	May-19	\$ 350,228.10	238,218	-	55,457.15	97,478.81	102,886.35	101,695.26					
May-19	Jun-19	\$ 332,114.62	228,185	3,362.96	53,121.47	93,373.30	98,553.10	97,412.18					
Transfer Q416 Bal to Q118 r factor											1,870.90		
Balance per QCA period - Reconciliation Amount					(482,394.25)	(513,485.25)	(230,711.81)	65,497.32	107,855.06	76,078.43	36,706.09	3,168.35	(30,496.17)

Fuel Costs - Recovered with Reconciliation Table factor:

		Q317	Q417	Q317	Q217	Q117	Q416			
Balance per QCA period - Reconciliation Amount:	\$	65,497.32	\$ 107,855.06	\$ 76,078.43	\$ 36,706.09	\$ 3,168.35	\$ (30,496.17)			
Rolling 12-months Steam Btu Sales:		2,761,907	2,756,168	2,766,196	2,702,107	2,651,960	2,617,316			
R-Factor:		0.0237	0.0391	0.0275	0.0136	0.0012	(0.0117)			
effective:		Sep-2019	Jun-2019	Mar-2019	Dec-2018	Sep-2018	Jun-2018			
Usage Month	Billed Month									
Jun-18	Jul-18						2,490.89			
Jul-18	Aug-18						2,515.25			
Aug-18	Sep-18						2,579.81			
Transfer Q116 Bal to Q217 r factor										
Sep-18	Oct-18					(228.32)	2,226.08			
Oct-18	Nov-18					(282.70)	2,756.36			
Nov-18	Dec-18					(293.80)	2,864.51			
Transfer Q216 Bal to Q317 r factor										
Dec-18	Jan-19				(3,442.45)	(303.75)	2,961.52			
Jan-19	Feb-19				(3,532.72)	(311.71)	3,039.18			
Feb-19	Mar-19				(3,272.61)	(288.76)	2,815.41			
Transfer Q316 Bal to Q417 r factor										
Mar-19	Apr-19			(6,254.85)	(3,093.31)	(272.94)	2,661.15			
Apr-19	May-19			(6,551.00)	(3,239.76)	(285.86)	2,787.15			
May-19	Jun-19			(6,275.09)	(3,103.32)	(273.82)	2,669.76			
Transfer Q416 Bal to Q118 r factor										
Balance per QCA period - After R-Factor Recovery										
		(482,394.25)	(513,485.25)	(230,711.81)	65,497.32	107,855.06	56,997.49	17,021.92	626.69	(0.00)