

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)
Q118	(0.4269)	Q416	(0.0117)	(1.6972)
Q218	(0.4319)	Q117	0.0012	(1.7550)
Q318	(0.4092)	Q217	0.0136	(1.7460)
Q418	(0.2328)	Q317	0.0275	(1.4702)
Q119	(0.4111)	Q417	0.0391	(1.4036)
Four quarters:	(1.4850)		0.0814	(1.4036)

		Q217			Q317			Q417			Q118			
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
Total Steam mmBtu Sales - 2017-2018		219,250	214,477	200,680	194,024	203,091	178,477	215,896	213,520	240,032	253,851	228,382	255,636	
Fuel Costs	\$	653,742	601,255	606,901	553,842	559,168	555,161	612,732	607,355	711,586	1,062,664	613,724	651,539	
Coal Costs	\$	369,065	352,554	147,427	348,290	334,432	101,499	294,157	303,586	324,952	300,911	323,597	313,859	
Gas Costs	\$	284,677	248,701	459,474	205,552	224,736	453,662	318,575	303,769	352,216	436,062	290,127	325,981	
Oil Costs	\$	-	-	-	-	-	-	-	-	34,418	325,691	-	11,699	
Hedge Costs	\$	-	-	-	-	-	-	-	-	-	-	-	-	
Coal mmBtu Input Blr Nos. 5	mmBtu	172,169	162,085	68,250	162,890	156,320	49,919	144,496	148,875	160,056	149,303	157,545	153,685	
Gas mmBtu Input Blr Nos. 1-5 & 8	mmBtu	86,263	87,164	161,376	73,533	88,766	172,324	124,618	117,981	137,525	151,013	121,741	155,115	
No. 2 Oil mmBtu Input Blr Nos. 1-4	mmBtu	-	-	-	-	-	-	-	-	2,330	22,072	-	791	
Blr 1-5 Fuel to Steam Input	mmBtu	258,432	249,249	229,626	236,423	245,086	222,243	269,114	266,856	299,911	322,388	279,286	309,591	
Production Test - Q1 (current quarter)	mmBtu			402,504	56,941	369,129		85,602	453,427		372		460,533	0
Production Test - Q4 (four quarters)	mmBtu			1,896,097	21,587	1,814,845		83,162	1,841,571		52,546		1,842,888	77,112
Production Coal Costs - Q1				2.1591		2.1245			2.0349				2.0376	
Production Coal Costs - Q4				2.7433		2.1769			2.1220				2.0849	
Production Gas Costs - Q1				2.9655		2.6416			2.5638				2.4591	
Production Gas Costs - Q4				2.9025		2.8496			2.7658				2.6421	
Appendix D														
Adjusted Production Standards - Q1	mmBtu			459,445		454,731			453,799				460,000	
Adjusted Production Standards - Q4	mmBtu			1,917,684		1,898,007			1,894,117				1,920,000	
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)				99.8794%		98.8546%			98.6519%				100.0000%	
Days Boiler #5 had Major Maintenance - scheduled outage only		0	0	0	0	0	0	0	0	0	0	0	0	0
Boiler #5 Major Maintenance Adjustment Q1				100.0000%		100.0000%			100.0000%				100.0000%	
Boiler #5 Major Maintenance Adjustment Q4				100.0000%		100.0000%			100.0000%				100.0000%	
Quarterly Fuel Costs - Actual	\$	Q1	Q4	1,861,898	Q1	Q4	1,668,171	Q1	Q4	1,931,673	Q1	Q4	2,327,927	
Production Standards - Coal		122,942	59,219	122,942	181,863	181,036	181,036	757	111,502	111,502	0	160,772	160,772	
Production Standards - Gas		(168,858)	(62,657)	(168,858)	(226,129)	(236,981)	(236,981)	(953)	(145,331)	(145,331)	0	(203,740)	(203,740)	
Quarterly Fuel Costs - Adjusted	\$	(45,916)	(3,437)	1,815,982	(44,266)	(55,945)	1,612,226	(197)	(33,830)	1,897,843	0	(42,967)	2,284,960	
Quarterly Blr 1-5 & 8 Fuel to Steam Input	mmBtu			737,307		703,752			835,881				911,265	
				2.46		2.29			2.27				2.51	
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	3.9500	
Quarterly Fuel Costs - Collected	\$			2,912,363		2,779,820			3,301,730				3,599,497	
(Over) or Under Collected Fuel Costs	\$			(1,096,381)		(1,167,595)			(1,403,887)				(1,314,537)	
85% of change in actual fuel costs	\$			(931,924)		(992,455)			(1,193,304)				(1,117,357)	
Rolling 12-months Steam Btu Sales	mmBtu		-	2,591,845		2,565,251		-	2,559,993		-		2,617,316	
Quarterly Cost Adjustment				(0.3596)		(0.3869)			(0.4661)				(0.4269)	
Cumulative - QCA				(1.4661)		(1.5173)			(1.6112)				(1.6395)	

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			
May	228,887		214,477		219,071			
June	216,287	2,688,803	200,680	2,591,845 *	212,897	2,651,960		2,087,117
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		1,461,378
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		727,841

*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:

Qtrly filing	Journal	rate	ck	(0.4092) Q318	(0.4319) Q218	(0.4269) Q118	(0.4661) Q417	(0.3869) Q317	(0.3596) Q217	(0.3986) Q117	(0.3722) Q416	(0.3357) Q316
Jun-16	373STMQCA	(0.4781) effective Sep-2016										
Sep-16	373STMQCA	(0.3357) effective Dec-2016										(894,900)
Dec-16	373STMQCA	(0.3722) effective Mar-2017									(993,234)	
Mar-17	373STMQCA	(0.3986) effective Jun-2017								(1,049,063)		
Jun-17	373STMQCA	(0.3596) effective Sep-2017							(931,924)			
Sep-17	373STMQCA	(0.3869) effective Dec-2017						(992,455)				
Dec-17	373STMQCA	(0.4661) effective Mar-2018					(1,193,304)					
Mar-18	373STMQCA	(0.4269) effective Jun-2018				(1,117,357)						
Jun-18	373STMQCA	(0.4319) effective Sep-2018			(1,145,495)							
Sep-18	373STMQCA	(0.4092) effective Dec-2018		(1,105,747)								

Usage Month	Billed Month	Billed per CIS+	MMBTU										
Dec-16	Jan-17	\$ 396,736.97	231,347	-								77,663.19	
Jan-17	Feb-17	\$ 410,670.54	239,472	-								80,390.75	
Feb-17	Mar-17	\$ 368,142.73	214,673	-								72,065.73	
Transfer Q314 Bal to Q415 r factor													
Mar-17	Apr-17	\$ 375,531.36	226,401	-							84,266.45	76,002.82	
Apr-17	May-17	\$ 363,669.97	219,250	-							81,604.85	73,602.23	
May-17	Jun-17	\$ 355,753.00	214,477	-							79,828.34	71,999.93	
Transfer Q414 Bal to Q116 r factor													
Jun-17	Jul-17	\$ 319,041.07	200,680	-						79,991.05	74,693.10	67,368.28	
Jul-17	Aug-17	\$ 308,459.34	194,024	-						77,337.97	72,215.73	65,133.86	
Aug-17	Sep-17	\$ 322,874.07	203,091	-						80,952.07	75,590.47	68,177.65	
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	59,914.73	
Oct-17	Nov-17	\$ 322,548.62	215,896	-					77,636.20	86,056.15	80,356.49	72,476.28	
Nov-17	Dec-17	\$ 318,998.89	213,520	-					76,781.79	85,109.07	79,472.14	71,678.68	
Transfer Q215 Bal to Q316 r factor												31.72	
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	\$ 416,539.92	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	
Balance per QCA period - Reconciliation Amount													
				(797,409.49)	(530,386.48)	(232,579.00)	107,855.06	76,078.43	36,706.09	3,168.35	(30,496.17)	(38,394.15)	

Fuel Costs - Recovered with Reconciliation Table factor:

	Q417	Q317	Q217	Q117	Q416	Q316
Balance per QCA period - Reconciliation Amount:	\$ 107,855.06	\$ 76,078.43	\$ 36,706.09	\$ 3,168.35	\$ (30,496.17)	\$ (38,394.15)
Rolling 12-months Steam Btu Sales:	2,756,168	2,766,196	2,702,107	2,651,960	2,617,316	2,559,993
R-Factor:	0.0391	0.0275	0.0136	0.0012	(0.0117)	(0.0150)
effective:	Jun-2019	Mar-2019	Dec-2018	Sep-2018	Jun-2018	Mar-2018

Usage Month	Billed Month											
Dec-17	Jan-18											
Jan-18	Feb-18											
Feb-18	Mar-18											
Transfer Q315 Bal to Q416 r factor												
Mar-18	Apr-18					3,834.54						
Apr-18	May-18					3,556.25						
May-18	Jun-18					3,286.07						
Transfer Q415 Bal to Q117 r factor												
Jun-18	Jul-18				2,490.89	3,193.46						
Jul-18	Aug-18				2,515.25	3,224.69						
Aug-18	Sep-18				2,579.81	3,307.46						
Transfer Q116 Bal to Q217 r factor												
Sep-18	Oct-18				(228.32)	2,853.95						
Oct-18	Nov-18				(282.70)	3,533.79						
Nov-18	Dec-18				(293.80)	3,672.45						
Transfer Q216 Bal to Q317 r factor												
Dec-18	Jan-19			(3,442.45)	(303.75)	3,796.82						
Jan-19	Feb-19			(3,532.72)	(311.71)	3,896.39						
Feb-19	Mar-19			(3,272.61)	(288.76)	3,609.50						
Transfer Q316 Bal to Q417 r factor												
Balance per QCA period - After R-Factor Recovery												
				(797,409.49)	(530,386.48)	(232,579.00)	107,855.06	76,078.43	26,458.31	1,459.31	(6,247.16)	(0.00)