ATTACHMENT D

North Baja Pipeline
Tuscarora

TransCanada
In business to deliver

November 19, 2007

1400 SW Fifth Avenue, Suite 900
Portland, Oregon 97201

John A. Roscher
Director, Rates & Regulatory Affairs

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Mr. Eugene Cadenasso
Energy Division
California Public Utilities Commission
505 Van Ness Avenue, 4th Floor
San Francisco, CA 94102

RE: Responses to CPUC Natural Gas Sector Data Request

Dear Mr. Cadenasso:

Enclosed please find responses to the CPUC Natural Gas Sector Data Request ("Data Request") for North Baja Pipeline, LLC ("North Baja") and Tuscarora Gas Transmission Company ("Tuscarora"). North Baja's response consists of a one-page written response. Tuscarora's response also contains a one-page written response along with one attachment to the written response. In addition, Tuscarora and North Baja are providing a joint response to Part VII of the data request which includes a one-page written response along with one attachment.

All information related to this data request is also being provided electronically in portable document format ("PDF"). Additionally, all Microsoft Excel files are being provided in their native format.

For further information regarding North Baja and Tuscarora's responses to this data request, please contact John Roscher at (503) 833-4254.

Sincerely,

John A. Roscher

John A. Roscher
Director, Rates & Regulatory Affairs
North Baja Pipeline, LLC
Tuscarora Gas Transmission Company

Enclosures

North Baja Pipeline, LLC's
Response to CPUC Natural Gas
Sector Data Request, Parts II-VI

North Baja Pipeline, LLC ("North Baja") hereby respectfully responds to the CPUC Natural Gas Sector Data Request by stating that none of the volumes that are transported through the state of California are delivered, used, or transferred to any other pipeline within the state of California. Therefore, North Baja has nothing to report in response to this request.

Tuscarora Gas Transmission Company's
Response to CPUC Natural Gas
Sector Data Request, Parts II-VI

Please see Attachment 1 to this data response which provides the data requested in Parts II through VI of the CPUC Natural Gas Sector Data Request. The following is a narrative explanation of any and all assumptions relied on to support Tuscarora Gas Transmission Company's ("Tuscarora") responses:

General Assumptions

Tuscarora has provided the data in the format requested by the CPUC. Specifically, Tuscarora is reporting natural gas volumes in thousands of decatherms (MDth) by dividing monthly decatherm volumes by 1,000.

In addition, Tuscarora is providing GHG emissions data in metric tons as requested by the Commission. Tuscarora performed the conversion of GHG emission factors to a metric ton basis by using the following conversion ratios:

1 gram = 10^{-3} kilograms
1 kilogram = 10^{-3} tons (metric)

A table illustrating the conversion of the various GHG emissions utilized in Tuscarora's analysis is included on page 2 of Attachment 1.

The Btu factor at Malin, Oregon was utilized in determining which CO_2 emission factor should be utilized in the analysis. The Btu factor at Malin is appropriate as this is the only point of receipt for Tuscarora. Tables illustrating the monthly Btu factors at Malin for 2004, 2005, and 2006 are also included on page 2 of Attachment 1.

Part Specific Assumptions

With regards to Part II(b)(i), since Tuscarora only has one customer that falls under this categorization, it did not include statistics showing the range of values, median, and mean. In addition, Tuscarora did not include a histogram showing the number of customers at each increment of 20,000 therms delivered per year for the same reason. Tuscarora is unable to determine if any of the gas delivered to this one customer was attributable to natural gas vehicle use.

With regards to Part II(b)(ii), Tuscarora is unable to determine if any of the gas delivered to this customer was attributable to natural gas vehicle use.

North Baja Pipeline, LLC and Tuscarora Gas Transmission Company's
Response to CPUC Natural Gas
Sector Data Request, Part VII

Please see Attachment 2 to this data response which provides relative heating and cooling degree day data in response to Part VII. This publicly-available data was obtained from the National Oceanic and Atmospheric Administration's ("NOAA") website as referenced on Attachment 2. Neither North Baja nor Tuscarora have performed studies to identify the impact on demand relative to this heating/cooling degree day information.

Tuscarora Gas Transmission Company's
Response to CPUC Natural Gas
Sector Data Request

Part II. Natural gas use and GHG emissions by end users for 2004, 2005, and 2006.

a) Residential end users
N/A

b) Non-residential end users

i) Tier 1 non-residential end users (< 2 million therms)

		Jan-04	Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
F008	Dth	13,380	11,200	13,000	4,200	3,100	850	1,950	1,195	750	1,925	10,800	12,000	12,400	12,870	10,586	7,600	7,729	948	1,175	234	450	3,268	13,459	11,600	15,200	10,929	12,561	9,092	6,790	600	1,010	870	1,400	4,049	11,076	18,386
Sierra Army Depot	MDth	13.380	11.200	13.000	4.200	3.100	0.850	1.950	1.195	0.750	1.925	10.800	12.000	12.400	12.870	10.586	7.600	7.729	0.948	1.175	0.234	0.450	3.268	13.459	11.600	15.200	10.929	12.561	9.092	6.790	0.600	1.010	0.870	1.400	4.049	11.076	18.386
	CO_2 Tons (Metric)	707.40	592.14	687.31	222.05	163.90	44.94	103.10	63.18	39.65	101.77	571.00	634.44	655.59	680.44	559.68	401.81	408.63	50.26	62.12	12.37	23.79	172.78	711.58	613.29	803.62	577.82	664.10	480.69	358.99	31.81	53.40	46.00	74.02	214.07	585.59	972.07
	CH_4 Tons (Metric)	0.0120	0.0101	0.0117	0.0038	0.0028	0.0008	0.0018	0.0011	0.0007	0.0017	0.0097	0.0108	0.0112	0.0116	0.0095	0.0068	0.0070	0.0009	0.0011	0.0002	0.0004	0.0029	0.0121	0.0104	0.0137	0.0098	0.0113	0.0082	0.0061	0.0005	0.0009	0.0008	0.0013	0.0036	0.0100	0.0165
	N_20 Tons (Metric)	0.0013	0.0011	0.0013	0.0004	0.0003	0.0001	0.0002	0.0001	0.0001	0.0002	0.0011	0.0012	0.0012	0.0013	0.0011	0.0008	0.0008	0.0001	0.0001	0.0000	0.0000	0.0003	0.0013	0.0012	0.0015	0.0011	0.0013	0.0009	0.0007	0.0001	0.0001	0.0001	0.0001	0.0004	0.0011	0.0018

ii) Tier 2 non-residential end users (2 million to < 3 million therms)

		Jan-04	Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
F021	Dth	30,969	38,500	30,928	13,800	18,600	12,000	12,400	12,400	9,000	24,000	29,700	38,204	38,050	35,860	25,745	22,500	17,050	15,000	13,750	12,400	15,000	28,120	33,738	40,300	40,300	26,460	28,417	26,960	18,600	16,500	13,175	14,725	16,772	24,350	28,470	29,419
Department of Corrections	MDth	30.969	38.500	30.928	13.800	18.600	12.000	12.400	12.400	9.000	24.000	29.700	38.204	38.050	35.860	25.745	22.500	17.050	15.000	13.750	12.400	15.000	28.120	33.738	40.300	40.300	26.460	28.417	26.960	18.600	16.500	13.175	14.725	16.772	24.350	28.470	29.419
NAICS Code: 922140	CO_2 Tons (Metric)	1,637.33	2,035.50	1,635.16	729.61	983.38	634.44	655.59	655.59	475.83	1,268.88	1,570.24	2,019.85	2,011.70	1,895.92	1,361.14	1,189.58	901.43	795.30	726.96	655.59	793.05	1,486.70	1,783.73	2,130.66	2,130.66	1,398.94	1,502.41	1,425.38	983.38	874.83	696.56	778.51	886.74	1,287.38	1,505.21	1,555.38
	CH_4 Tons (Metric)	0.0279	0.0347	0.0278	0.0124	0.0167	0.0108	0.0112	0.0112	0.0081	0.0216	0.0267	0.0344	0.0342	0.0323	0.0232	0.0203	0.0153	0.0135	0.0124	0.0112	0.0135	0.0253	0.0304	0.0363	0.0363	0.0238	0.0256	0.0243	0.0167	0.0149	0.0119	0.0133	0.0151	0.0219	0.0256	0.0265
	N_20 Tons (Metric)	0.0031	0.0039	0.0031	0.0014	0.0019	0.0012	0.0012	0.0012	0.0009	0.0024	0.0030	0.0038	0.0038	0.0036	0.0026	0.0023	0.0017	0.0015	0.0014	0.0012	0.0015	0.0028	0.0034	0.0040	0.0040	0.0026	0.0028	0.0027	0.0019	0.0017	0.0013	0.0015	0.0017	0.0024	0.0028	0.0029

iii) Tier 3 non-residential end users (3 million to < 4.5 million therms)
N/A

iii) Tier 4 non-residential end users (4.5 million or more therms)
N/A

Part III. Natural gas use and GHG emissions of co-generation and combined heat and power end users
N/A

Part IV. Natural gas deliveries to wholesale customers of investor owned utilities

		Jan-04	Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
F020	Dth	6,100	5,800	5,800	6,000	4,580	4,213	3,100	2,480	1,800	4,650	5,800	6,200	6,200	5,310	4,070	6,000	6,039	5,970	2,945	3,224	4,050	6,143	4,378	133	1,900	3,980	995	400	300	1,320	0	0	0	200	200	600
City of Susanville	MDth	6.100	5.800	5.800	6.000	4.580	4.213	3.100	2.480	1.800	4.650	5.800	6.200	6.200	5.310	4.070	6.000	6.039	5.970	2.945	3.224	4.050	6.143	4.378	0.133	1.900	3.980	0.995	0.400	0.300	1.320	0.000	0.000	0.000	0.200	0.200	0.600
	CO_2 Tons (Metric)	322.51	306.65	306.65	317.22	242.14	222.74	163.90	131.12	95.17	245.85	306.65	327.79	327.79	280.74	215.18	317.22	319.28	316.53	155.70	170.45	214.12	324.78	231.46	7.03	100.45	210.42	52.61	21.15	15.86	69.99	0.00	0.00	0.00	10.57	10.57	31.72
	CH_4 Tons (Metric)	0.0055	0.0052	0.0052	0.0054	0.0041	0.0038	0.0028	0.0022	0.0016	0.0042	0.0052	0.0056	0.0056	0.0048	0.0037	0.0054	0.0054	0.0054	0.0027	0.0029	0.0036	0.0055	0.0039	0.0001	0.0017	0.0036	0.0009	0.0004	0.0003	0.0012	0.0000	0.0000	0.0000	0.0002	0.0002	0.0005
	N_20 Tons (Metric)	0.0006	0.0006	0.0006	0.0006	0.0005	0.0004	0.0003	0.0002	0.0002	0.0005	0.0006	0.0006	0.0006	0.0005	0.0004	0.0006	0.0006	0.0006	0.0003	0.0003	0.0004	0.0006	0.0004	0.0000	0.0002	0.0004	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
F033	Dth	4,650	4,350	4,350	3,575	2,610	935	1,550	1,550	1,260	2,790	4,500	4,650	4,650	4,144	4,588	4,456	3,875	2,420	1,100	1,550	2,400	4,619	4,500	4,650	4,650	4,172	4,650	4,500	4,030	1,800	2,470	3,150	3,060	4,195	4,500	4,650
West Coast Gas Company	MDth	4.650	4.350	4.350	3.575	2.610	0.935	1.550	1.550	1.260	2.790	4.500	4.650	4.650	4.144	4.588	4.456	3.875	2.420	1.100	1.550	2.400	4.619	4.500	4.650	4.650	4.172	4.650	4.500	4.030	1.800	2.470	3.150	3.060	4.195	4.500	4.650
	CO_2 Tons (Metric)	245.85	229.98	229.98	189.01	137.99	49.43	81.95	81.95	66.62	147.51	237.92	245.85	245.85	219.09	242.57	235.59	204.87	128.31	58.16	81.95	126.89	244.21	237.92	245.85	245.85	220.57	245.85	237.92	213.07	95.44	130.59	166.54	161.78	221.79	237.92	245.85
	CH_4 Tons (Metric)	0.0042	0.0039	0.0039	0.0032	0.0023	0.0008	0.0014	0.0014	0.0011	0.0025	0.0041	0.0042	0.0042	0.0037	0.0041	0.0040	0.0035	0.0022	0.0010	0.0014	0.0022	0.0042	0.0041	0.0042	0.0042	0.0038	0.0042	0.0041	0.0036	0.0016	0.0022	0.0028	0.0028	0.0038	0.0041	0.0042
	N_20 Tons (Metric)	0.0005	0.0004	0.0004	0.0004	0.0003	0.0001	0.0002	0.0002	0.0001	0.0003	0.0005	0.0005	0.0005	0.0004	0.0005	0.0004	0.0004	0.0002	0.0001	0.0002	0.0002	0.0005	0.0005	0.0005	0.0005	0.0004	0.0005	0.0005	0.0004	0.0002	0.0002	0.0003	0.0003	0.0004	0.0005	0.0005
F034	Dth	4,584	4,160	1,740	240	0	0	0	0	0	0	4,500	3,100	3,875	2,486	162	1,569	0	0	0	0	0	31	3,000	3,100	3,875	1,343	1,740	900	0	0	0	105	200	650	2,495	6,388
IGI Resources	MDth	4.584	4.160	1.740	0.240	0.000	0.000	0.000	0.000	0.000	0.000	4.500	3.100	3.875	2.486	0.162	1.569	0.000	0.000	0.000	0.000	0.000	0.031	3.000	3.100	3.875	1.343	1.740	0.900	0.000	0.000	0.000	0.105	0.200	0.650	2.495	6.388
	CO_2 Tons (Metric)	242.36	219.94	91.99	12.69	0.00	0.00	0.00	0.00	0.00	0.00	237.92	163.90	204.87	131.43	8.56	82.95	0.00	0.00	0.00	0.00	0.00	1.64	158.61	163.90	204.87	71.00	91.99	47.58	0.00	0.00	0.00	5.55	10.57	34.37	131.91	337.73
	CH_4 Tons (Metric)	0.0041	0.0037	0.0016	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0041	0.0028	0.0035	0.0022	0.0001	0.0014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0027	0.0028	0.0035	0.0012	0.0016	0.0008	0.0000	0.0000	0.0000	0.0001	0.0002	0.0006	0.0022	0.0057
	N_20 Tons (Metric)	0.0005	0.0004	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0005	0.0003	0.0004	0.0002	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0003	0.0003	0.0004	0.0001	0.0002	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0002	0.0006
F037	Dth	4,575	0	750	3,000	0	0	0	0	0	0	0	4,650	4,650	4,172	1,519	3,555	3,020	1,650	0	0	0	2,606	3,300	100	3,850	4,172	2,286	580	3,400	100	3,996	0	50	50	198	300
City of Susanville	MDth	4.575	0.000	0.750	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.650	4.650	4.172	1.519	3.555	3.020	1.650	0.000	0.000	0.000	2.606	3.300	0.100	3.850	4.172	2.286	0.580	3.400	0.100	3.996	0.000	0.050	0.050	0.198	0.300
	CO_2 Tons (Metric)	241.88	0.00	39.65	158.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	245.85	245.85	220.57	80.31	187.95	159.67	87.48	0.00	0.00	0.00	137.78	174.47	5.29	203.55	220.57	120.86	30.66	179.76	5.30	211.27	0.00	2.64	2.64	10.47	15.86
	CH_4 Tons (Metric)	0.0041	0.0000	0.0007	0.0027	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0042	0.0042	0.0038	0.0014	0.0032	0.0027	0.0015	0.0000	0.0000	0.0000	0.0023	0.0030	0.0001	0.0035	0.0038	0.0021	0.0005	0.0031	0.0001	0.0036	0.0000	0.0000	0.0000	0.0002	0.0003
	N_20 Tons (Metric)	0.0005	0.0000	0.0001	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0005	0.0005	0.0004	0.0002	0.0004	0.0003	0.0002	0.0000	0.0000	0.0000	0.0003	0.0003	0.0000	0.0004	0.0004	0.0002	0.0001	0.0003	0.0000	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000
F061	Dth	7,025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wasatch Energy, LLC	MDth	7.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CO_2 Tons (Metric)	371.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CH_4 Tons (Metric)	0.0063	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	N_20 Tons (Metric)	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F063	Dth	0	7,250	6,700	0	840	0	0	0	0	0	6,380	7,750	7,750	6,944	7,657	2,250	0	0	0	0	0	2,416	3,175	20,929	28,159	3,111	16,138	10,014	2,689	800	448	3,296	5,271	5,063	6,600	5,237
City of Susanville	MDth	0.000	7.250	6.700	0.000	0.840	0.000	0.000	0.000	0.000	0.000	6.380	7.750	7.750	6.944	7.657	2.250	0.000	0.000	0.000	0.000	0.000	2.416	3.175	20.929	28.159	3.111	16.138	10.014	2.689	0.800	0.448	3.296	5.271	5.063	6.600	5.237
	CO_2 Tons (Metric)	0.00	383.31	354.23	0.00	44.41	0.00	0.00	0.00	0.00	0.00	337.31	409.74	409.74	367.13	404.83	118.96	0.00	0.00	0.00	0.00	0.00	127.73	167.86	1,106.52	1,488.77	164.48	853.22	529.44	142.17	42.42	23.69	174.26	278.68	267.68	348.94	276.88
	CH_4 Tons (Metric)	0.0000	0.0065	0.0060	0.0000	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0057	0.0070	0.0070	0.0062	0.0069	0.0020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0022	0.0029	0.0188	0.0253	0.0028	0.0145	0.0090	0.0024	0.0007	0.0004	0.0030	0.0047	0.0046	0.0059	0.0047
	N_20 Tons (Metric)	0.0000	0.0007	0.0007	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0006	0.0008	0.0008	0.0007	0.0008	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	0.0003	0.0021	0.0028	0.0003	0.0016	0.0010	0.0003	0.0001	0.0000	0.0003	0.0005	0.0005	0.0007	0.0005
I001																																					
IGI Resources	Dth	93	0	72	0	280	0	0	0	0	0	1,750	7,200	7,959	140	0	0	0	0	0	0	0	1,880	762	7,683	4,650	9,940	11,783	6,340	0	0	0	0	0	0	10,780	13,526
	MDth	0.093	0.000	0.072	0.000	0.280	0.000	0.000	0.000	0.000	0.000	1.750	7.200	7.959	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.880	0.762	7.683	4.650	9.940	11.783	6.340	0.000	0.000	0.000	0.000	0.000	0.000	10.780	13.526
	CO_2 Tons (Metric)	4.92	0.00	3.81	0.00	14.80	0.00	0.00	0.00	0.00	0.00	92.52	380.66	420.79	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.40	40.29	406.20	245.85	525.53	622.97	335.20	0.00	0.00	0.00	0.00	0.00	0.00	569.94	715.12
	CH_4 Tons (Metric)	0.0001	0.0000	0.0001	0.0000	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0016	0.0065	0.0072	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0017	0.0007	0.0069	0.0042	0.0089	0.0106	0.0057	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0097	0.0122
	N_20 Tons (Metric)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	0.0007	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	0.0001	0.0008	0.0005	0.0010	0.0012	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0011	0.0014
R071	Dth	0	0	1,064	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wasatch Energy, LLC	MDth	0.000	0.000	1.064	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CO_2 Tons (Metric)	0.00	0.00	56.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CH_4 Tons (Metric)	0.0000	0.0000	0.0010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	N_20 Tons (Metric)	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F074	Dth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,929	0	0	0	0	0	0	0	0	0	0	0	0	0
Barrick Goldstrike Mines, Inc.	MDth	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.929	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	CO_2 Tons (Metric)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CH_4 Tons (Metric)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0071	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	N_20 Tons (Metric)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F-086		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,590	9,438	9,227	0	0	192	0	724	8,799	15,358	20,726
City of Susanville	MDth	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.590	9.438	9.227	0.000	0.000	0.192	0.000	0.724	8.799	15.358	20.726
	CO_2 Tons (Metric)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	454.15	498.99	487.83	0.00	0.00	10.15	0.00	38.28	465.20	811.98	1,095.78
	CH_4 Tons (Metric)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0077	0.0085	0.0083	0.0000	0.0000	0.0002	0.0000	0.0007	0.0079	0.0138	0.0187
	N_20 Tons (Metric)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0009	0.0009	0.0009	0.0000	0.0000	0.0000	0.0000	0.0001	0.0009	0.0015	0.0021

Part IV. Natural gas deliveries to wholesale customers of investor owned utilities
N/A

Part V. Feedstock uses of natural gas.
N/A

Part VI. Natural gas use and GHG emissions associated with natural gas infrastructure within California for each year 2004, 2005, and 2006
N/A

Converted Emission Factors

	g/MMBtu	kg/MMBtu	Tons (Metric)/MMBtu
CO_2 (1,000 to 1,025 Btu)		52.87	0.05287
CO_2 (1,025 to 1,050 Btu)		53.02	0.05302
CH_4	0.9	0.0009	0.0000009
N_20	0.1	0.0001	0.0000001

2004 Btu Factor @ Malin		2005 Btu Factor @ Malin		2006 Btu Factor @ Malin	
January	1019	January	1020	January	1016
February	1019	February	1020	February	1016
March	1021	March	1021	March	1018
April	1020	April	1022	April	1017
May	1020	May	1018	May	1019
June	1025	June	1030	June	1032
July	1023	July	1023	July	1023
August	1023	August	1021	August	1022
September	1023	September	1023	September	1023
October	1021	October	1021	October	1021
November	1021	November	1019	November	1018
December	1024	December	1021	December	1023

National Oceanic and Atmospheric Administration Population-Weighted Heating Degree Days

	Monthly Total	Monthly Deviation from Normal	Monthly Deviation from Last Year	Cumulative Total	Cumulative Dev from Normal	Cumulative Deviation from Last year
Jan-04	476	-8	134	1310	-147	116
Feb-04	428	42	38	1738	-105	154
Mar-04	181	-177	-141	1919	-282	20
Apr-04	165	-84	-161	2084	-366	-140
May-04	55	-91	-80	2139	-457	-212
Jun-04	8	-43	1	2147	-500	-211
Jul-04	0	-10	0	0	-10	0
Aug-04	0	-9	0	0	-19	0
Sep-04	9	-22	9	9	-41	9
Oct-04	132	13	108	141	-28	117
Nov-04	354	33	0	495	5	117
Dec-04	456	-27	0	951	-22	117
Jan-05	464	-20	-12	1415	-42	105
Feb-05	336	-37	-76	1751	-79	29
Mar-05	317	-41	136	2068	-120	158
Apr-05	265	16	100	2333	-104	252
May-05	87	-59	32	2420	-163	281
Jun-05	20	-31	12	2440	-194	293
Jul-05	0	-10	0	0	-10	0
Aug-05	0	-9	0	0	-19	0
Sep-05	6	-25	-3	6	-44	-3
Oct-05	89	-30	-43	95	-74	-46
Nov-05	242	-79	-112	337	-153	-158
Dec-05	456	-27	0	951	-22	117
Jan-06	437	-47	-27	1183	-274	-232
Feb-06	351	-22	15	1534	-296	-217
Mar-06	481	123	164	2015	-173	-53
Apr-06	274	25	9	2289	-148	-44
May-06	66	-80	-21	2355	-228	-65
Jun-06	1	-50	-19	2356	-278	-84
Jul-06	0	-10	0	0	-10	0
Aug-06	0	-9	0	0	-19	0
Sep-06	1	-30	-13	1	-49	-13
Oct-06	109	-10	12	110	-59	-1
Nov-06	250	-71	30	360	-130	29
Dec-06	409	-74	-47	746	-227	-205

Source = National Oceanic and Atmospheric Administration Degree Days
http://www.cpc.ncep.noaa.gov/products/monitoring_and_data/DD_monitoring_and_data.shtml

National Oceanic and Atmospheric Administration Population-Weighted Cooling Degree Days

	Monthly Total	Monthly Deviation from Normal	Monthly Deviation from Last Year	Cumulative Total	Cumulative Dev from Normal	Cumulative Deviation from Last year
Jan-04	0	-3	-2	0	-3	-2
Feb-04	0	-2	0	0	-5	-2
Mar-04	37	30	32	37	25	30
Apr-04	40	18	38	77	43	68
May-04	88	30	33	165	73	96
Jun-04	138	7	-5	303	80	90
Jul-04	245	17	-33	548	97	55
Aug-04	226	-7	-6	774	90	48
Sep-04	191	32	-4	965	122	49
Oct-04	59	5	-57	1024	127	-4
Nov-04	0	-7	0	1024	120	-4
Dec-04	0	-1	0	1024	119	-4
Jan-05	0	-3	0	0	-3	0
Feb-05	0	-2	0	0	-5	0
Mar-05	4	-3	-33	4	-8	-33
Apr-05	2	-20	-38	6	-28	-69
May-05	64	6	-24	70	-22	-90
Jun-05	108	-23	-30	178	-45	-121
Jul-05	271	43	26	449	-2	-93
Aug-05	249	16	23	698	14	-68
Sep-05	130	-29	-61	828	-15	-135
Oct-05	65	11	6	893	-4	-131
Nov-05	8	1	8	901	-3	-123
Dec-05	0	-1	0	1024	119	-4
Jan-06	0	-3	0	0	-3	0
Feb-06	0	-2	0	0	-5	0
Mar-06	0	-7	-4	0	-12	-4
Apr-06	9	-13	7	9	-25	3
May-06	77	19	13	86	-6	16
Jun-06	195	64	87	281	58	103
Jul-06	349	121	78	630	179	181
Aug-06	217	-16	-32	847	163	149
Sep-06	160	1	30	1007	164	179
Oct-06	47	-7	-18	1054	157	161
Nov-06	11	4	3	1065	161	164
Dec-06	0	-1	0	901	-4	-123

(END OF ATTACHMENT D)

Source = National Oceanic and Atmospheric Administration Degree Days
http://www.cpc.ncep.noaa.gov/products/monitoring_and_data/DD_monitoring_and_data.shtml

ATTACHMENT E

BEFORE THE PUBLIC UTILITIES COMMISSIION

OF THE STATE OF CALIFORNIA

Order Instituting Rulemaking to Implement the Commission's Procurement Incentive Framework And to Examine the Integration of Greenhouse Gas Emissions Standards into Procurement Policies	))))	A.06-04-009

KERN RIVER GAS TRANSMISSION COMPANY'S RESPONSES TO COMMISSION DATA REQUESTS

Part II. Natural gas use and GHG emissions by end users for each year 2004, 2005 and 2006.

Data Request No. 1
Provide number of customers, volumes of natural gas delivered, and associated GHG emissions for the following categories of end users that are served directly by your entity (exclude natural gas used for the generation of electricity).

a. Residential end users.
Residential customers are defined as those customers that are provided service under residential rate schedules in the respondent's utility tariffs as approved by the CPUC or other government agency. Include data for end users whose natural gas is either utility procured or procured by another entity (e.g., core aggregator).

Natural gas deliveries and GHG emissions data for residential customers is to be reported on an aggregated basis including total number of customers, total natural gas volumes, and total emissions. Identify the tariff rates schedules used to determine the residential customer data reported.

Data Response No. 1a.
Kern River Gas Transmission Company (Kern River) is an interstate pipeline that delivers natural gas on behalf of its shippers as requested from day-to-day to two local distribution companies: Pacific Gas and Electric Company (PG&E) at the Daggett and Freemont Peak delivery meters, and Southern California Gas Company (SoCalGas) at the Kramer Junction and Wheeler Ridge delivery meters. Once delivery is made to PG&E and SoCalGas, Kern River does not know what quantities of natural gas are delivered to residential end users by PG&E and SoCalGas. However, Kern River has provided in the table below the total quantity of natural gas on a MDth basis that was delivered to PG&E and SoCalGas, the year in which it was delivered, and the meter usage type using the categories as provided by the Energy Information Agency (EIA).

Meter Name	Operator	Usage	2004	2005	2006
Daggett	Pacific Gas and Electric Company	LDC	96,027	55,599	29,057
Freemont Peak	Pacific Gas and Electric Company	LDC	1,319	822	307
Kramer Junction	Southern California Gas Company	LDC	68,585	95,282	92,513
Wheeler Ridge	Southern California Gas Company	LDC	118,306	125,789	114,683
Annual Total (Mdths)			**284,237**	**277,492**	**236,559**

b. Non-residential end users (do not include data for the generation of electricity). For cogeneration and combined heat and power end users, only include natural gas volumes not used for the production of electricity.

Data for non-residential end users are to be stratified using the following tiers based on the specified volume of natural gas deliveries.

i) Tier 1 non-residential end users(<2 million therms)
Tier 1 consists of non-residential end users with annual deliveries of less than 2 million therms per years during the reported years.

Natural gas deliveries and GHG emissions data for Tier 1 end users are to be reported on an aggregated basis, including total number of customers, total natural gas deliveries and total GHG emissions.

Include statistics showing the range of values, median, and mean. Provide a histogram showing the number of customers at each increment of 20,000 therms delivered per year.

Identify the volumes of natural gas delivered, number of end users and GHG emissions associated with the use of natural gas for transportation by vehicle (e.g., natural gas vehicle use).

ii) Tier 2 non-residential end users (2 million to <3 million therms):
Tier 2 is composed of non-residential end users with annual deliveries of more than 2 million therms and less than 3 million therms per year during the reported years.

Natural gas delivery and GHG emissions data for Tier 2 non-residential end users is to be reported for each end user by using the North American Industry Classification System (NAICS) nomenclature to the greatest level of specificity.[1]
If the NAICS designation for an end user is unknown, report the name of the customer.

[1] Go to http://www.census.gov/epcd/www/naics.html.

Identify the volumes of natural gas delivered, number of end users and GHG emissions associated with the use of natural gas for transportation by vehicle (e.g., natural gas vehicle use).

iii) Tier 3 non-residential end users (3 million to <4.5 million therms):
Tier 3 is composed of non-residential end users with annual deliveries of more than 3 million therms and less than 4.5 million therms per year during the reported years.

Natural gas delivery and GHG emissions data for Tier 3 non-residential end users is to be reported for each end user by using the NAICS nomenclature to the greatest level of specificity.

If the NAICS designation for an end user is unknown, report the name of the customer.

Identify the volumes of natural gas delivered, number of end users and GHG emissions associated with the use of natural gas for transportation by vehicle (e.g., natural gas vehicle use).

iv) Tier 4 non-residential end users (<4.5 million or more therms):
Tier 4 is composed of non-residential end users with annual deliveries of more than 4.5 million therms per year during the reported years.

Natural gas delivery and GHG emissions data for Tier 4 non-residential end users is to be reported for each end user by using the NAICS nomenclature to the greatest level of specificity.

If the NAICS designation for the end user is unknown, report the name of the customer.

Identify the volumes of natural gas delivered, number of end users and GHG emissions associated with the use of natural gas for transportation by vehicle (e.g., natural gas vehicle use).

Data Response No. 1b.
Kern River delivers natural gas to numerous delivery meters in southern California that it reports to EIA as "industrial" end-users. However, once delivery is made to these delivery meters, Kern River's services are terminated and Kern River has no knowledge regarding the use of the gas after delivery at the meter stations. However, Kern River has provided in the table below the total quantity of natural gas on a MDth basis that was delivered to these end-users, the delivery meter operator and the year in which it was delivered.

Meter Name	Operator	Usage	2006	2005	2004
17Z Chevron	Chevron USA Inc.	Industrial	1,552	688	483
17Z Mobil	Aera Energy LLC	Industrial	11,378	9,110	8,531
17Z Shell	Aera Energy LLC	Industrial	1,601	1,798	1,992
17Z Texaco	Chevron USA Inc.	Industrial	15,959	4,520	3,163
Bear Mountain	Juniper Generation, LLC	Industrial	3,033	3,074	3,415
Boron	U.S. Borax, Inc.	Industrial	3,729	3,213	3,273
China Grade	Oildale Energy LLC	Industrial	2,830	1,853	2,813
Crocker Springs	Aera Energy LLC	Industrial	8,660	10,002	11,194
Granite	McPherson Oil	Industrial	2,541	2,566	2,661
Grapevine	Equilon Pipeline Company	Industrial	0	0	0
Kern Front	Juniper Generation, LLC	Industrial	16,287	15,506	18,507
Kern River Chevron	Chevron USA Inc.	Industrial	4,585	4,614	4,670
Kern River Santa Fe	Chevron USA Inc.	Industrial	702	527	469
McKittrick	Juniper Generation, LLC	Industrial	3,137	2,919	3,299
Midway Midset	Chevron USA Inc.	Industrial	3,701	3,854	4,115
Midway Santa Fe	Chevron USA Inc.	Industrial	11,134	5,924	4,394
Mt. Poso	Chevron USA Inc.	Industrial	1,724	1,627	1,744
N Kern River	Chevron USA Inc.	Industrial	0	16	34
North Midway	Aera Energy LLC	Industrial	9,208	7,113	5,327
Oxford	Aera Energy LLC	Industrial	319	858	1,107
Racetrack	Chevron USA Inc.	Industrial	114	88	83
SE Kern River	Chevron USA Inc.	Industrial	1,307	1,803	2,652
South Midway	Aera Energy LLC	Industrial	20,347	20,446	21,156
Sycamore	Chevron USA Inc.	Industrial	50,385	46,807	47,731
Taft	Chevron USA Inc.	Industrial	1,025	913	1,771
Annual Total (Mdths)			**175,258**	**149,837**	**154,585**

Part III. Natural gas use and GHG emissions of co-generation and combined heat and power end users. (Natural gas volumes and associated GHG emissions from these end users that is not used for the generation of electricity should also be included in the response to Part II.)

Data Request No. 1

Report natural gas deliveries and associated GHG emissions of co-generation and combined heat and power end users for years 2004, 2005 and 2006. Identify the proportion of natural gas used for the generation of electricity. Explain the methodology used to determine the amount of natural gas used for electricity generation.

Data Response No. 1

Refer to Data Response Part II, No. 1b.

Data Request No. 2

For deliveries to end users below 2 million therms per year, identify number of end users and provide a histogram showing the number of end users at 20,000 therms increments.

Data Response No. 2
Refer to Data Response Part II, No. 1b.

Data Request No. 3
Natural gas deliveries and GHG emissions data for end users using 2 million or more therms is to be reported for each end user by using the NAICS nomenclature to the greatest level of specificity.

Data Response No. 3
Refer to Data Response Part II, No. 1b.

Data Request No. 4
If the NAICS designation for the end user is unknown, report the name of the customer.

Data Response No. 4
Kern River is unable to determine the NAICS designation for the end-users provided in Data Response Part II, No. 1b, however, the delivery meter operator is provided.

Part IV. Natural gas deliveries to wholesale customers of investor owned utilities.

Data Request No. 1
Report volumes of natural gas deliveries to wholesale customers for each year 2004, 2005 and 2006. Wholesale customers are those entities that provide service to end users with natural gas received through connections with other California utilities. Wholesale customers may include investor or publicly owned utilities. Identify the wholesale customer and provide the volume of natural gas deliveries and associated GHG emissions assuming all the delivered natural gas is combusted.

Data Response No. 1
Refer to Data Response Part II, No. 1a.

Part V. Feedstock uses of natural gas (Natural gas volumes and associated GHG emissions from these end users should also be included in the response to Part II).

Data Request No. 1
Identify end users by name that use natural gas as a feedstock and to report the following information. For each of 2004, 2005, 2006, identify or estimate the proportion of natural gas used as a feedstock and the proportion combusted and associated GHG emissions and the total natural gas delivered. Include the total GHG emissions for each end user that use natural gas as a feedstock. Cite source or provide documentation in support of this response.

Data Response No. 1
Kern River does not know or have information to determine which proportion of the natural gas it delivers is used as a feedstock.

Part VI. Natural gas use and GHG emissions associated with natural gas infrastructure within California for each year 2004, 2005 and 2006.

For the reported data under this part, identify whether reported data are based on actual observation or are estimated. If estimated, describe estimation technique(s) and explain reason for use. Also, identify if estimation technique(s) are approved or recommended for use by any regulatory body, research organization, trade group or other organization. Identify values that were reported to GHG emissions registry, include the name of the registry.

Data Request No. 1
Report and identify natural gas volumes combusted by fuel compressors, other equipment, fleet vehicles or flared for operational purposes and the associated GHG emissions. Describe the types of equipment that produced the GHG emissions.

Data Response No. 1
Kern River does not have any compressors in California that use natural gas as a fuel source. Additionally, Kern River does not operate any natural gas fueled fleet vehicles in California and Kern River does not flare natural gas for operational purposes in California.

Data Request No. 2
Report natural gas volumes that are either unintentionally released (fugitive) or vented from system operations and the associated GHG emissions. Identify the quantity of methane and other types of gases that were emitted.

Data Response No. 2
Kern River uses natural gas in daily operations to operate valves, to sample the gas stream to determine gas quality and during facility inspections. The amount used in California is not separately tracked but is estimated to be between 500 and 750 mcf each year. The estimate is based on vendor specifications for the equipment located in California. In addition, Kern River intentionally vented 297 mcf of gas in 2005 during pipeline in-line inspection operations. These vented gas quantities are GHG emissions and were not reported to a GHG registry.

Data Request No. 3
Include a description of natural gas quality specifications that must be met to transport natural gas on your system. Submit applicable effective tariff sheets.

Data Response No. 3
See the attached sheets from Section 4, Quality, of Kern River's Gas Tariff which describe the natural gas quality specifications that must be met to transport natural gas on the Kern River pipeline as of November 19, 2007.

Data Request No. 4
Submit all reports that have been filed with the California Climate Action Registry or other GHG emissions registry.

Data Response No. 4
Kern River has not filed any reports with the California Climate Action Registry or other GHG emissions registry.

GENERAL TERMS AND CONDITIONS
(Continued)

4. QUALITY

4.1 Gas Quality at Delivery Point(s). The Gas delivered by Transporter for Shipper at the Delivery Point(s):

(a) will be merchantable Natural Gas commercially free from objectionable odors, solid matter, dust, gums, and gum forming constituents, or any other substance which interferes with its intended purpose, or causes interference with the proper and safe operation of the lines, meters, regulators, or other appliances through which it may flow;

(b) will contain not more than seven (7) pounds/MMcf of water;

(c) will contain no hydrocarbons in liquid form at the temperature and pressure at which the Gas is delivered at the Delivery Point;

(d) will not exceed a hydrocarbon dewpoint in excess of fifteen degrees (15) Fahrenheit at pressures up to 800 psig;

(e) will contain not more than 0.2% by volume of oxygen;

(f) will contain not more than 3.0% by volume of carbon dioxide or nitrogen;

(g) will contain not more than a combined total of 4.0% by volume of inerts, including carbon dioxide, nitrogen, oxygen and any other inert compound;

(h) will contain not more than 0.25 grain of hydrogen sulfide per 100 Cubic Feet of Gas (the Gas will not contain any entrained hydrogen sulfide treatment chemical (solvent) or its by-products);

(i) will contain not more than 0.3 grains of mercaptan sulfur per 100 Cubic Feet of Gas;

(j) will contain not more than 0.75 grains of total sulfur per 100 Cubic Feet of Gas;

GENERAL TERMS AND CONDITIONS
(Continued)

4. QUALITY (Continued)

4.1 Gas Quality at Delivery Point(s). (Continued)

(k) will not contain any toxic or hazardous substance, in concentrations which, in the normal use of the Gas, results in an unacceptable risk to health, is injurious to pipeline facilities, is a limit to merchantability or contrary to applicable governmental standards;

(l) will have a minimum Total Heating Value of not less than nine hundred seventy (970) Btu's per Cubic Foot of Gas on a dry basis;

(m) will have a temperature of not less than forty degrees (40) Fahrenheit, and not more than one hundred twenty degrees (120) Fahrenheit.

4.2 Gas Quality at Receipt Point(s). Gas nominated or delivered by Shipper to Transporter at the Receipt Point(s) for Transportation will comport with the requirements set forth in Paragraph 4.1 herein, or be subject to rejection and non-acceptance by Transporter pursuant to Section 4.5 (with the exception of the following Gas blending rights).

4.3 Gas Blending Rights. Notwithstanding Section 4.2, if the Composite Gas Stream contains less than ninety-five (95)% of the maximum allowable concentration of hydrogen sulfide (4.1(h)), mercaptan sulfur (4.1(i)), total sulfur (4.1(j)), nitrogen or carbon dioxide (4.1(f)), or total inerts (4.1.g)), then Transporter will allow reduced restrictions on said Gas components as described below and Shipper may tender, at any Receipt Point, Gas which contains not more than:

(a) one (1) grain of hydrogen sulfide per 100 Cubic Feet of Gas, subject to the condition that the volume weighted average hydrogen sulfide content of the Composite Gas Stream does not exceed 0.25 grain per 100 Cubic Feet of Gas; and

GENERAL TERMS AND CONDITIONS
(Continued)

4. QUALITY (Continued)

4.3 Gas Blending Rights. (Continued)

(b) ten (10) grains of total sulfur per 100 Cubic Feet of Gas, subject to the condition that the volume weighted average total sulfur content of the Composite Gas Stream does not exceed 0.75 grain per 100 Cubic Feet of Gas; and

(c) five (5) grains of mercaptan sulfur per 100 Cubic Feet of Gas, subject to the condition that the volume weighted average mercaptan sulfur content of the Composite Gas Stream does not exceed 0.30 grain per 100 Cubic Feet of Gas; and

(d) four percent (4.0%) by volume of carbon dioxide, subject to the condition that the volume weighted average carbon dioxide content of the Composite Gas Stream does not exceed three percent (3.0%), and the Composite Gas Stream meets the requirements of Section 4.3(f) below; and

(e) six percent (6.0%) by volume of nitrogen, subject to the condition that the volume weighted average nitrogen content of the Composite Gas Stream will not exceed three percent (3.0%), and the Composite Gas Stream meets the requirements of Section 4.3(f) below; and

(f) six percent (6.0%) by volume of inerts, subject to the condition that the volume weighted average total inerts of the Composite Gas Stream will not exceed four percent (4.0%).

4.4 Quality Tests.

(a) Location of Tests. The quality of the Gas received and delivered by Transporter hereunder will be determined by tests which Transporter will cause to be made at Receipt Points, and other locations along its system.

GENERAL TERMS AND CONDITIONS
(Continued)

4. QUALITY (Continued)

4.4 Quality Tests. (Continued)

(b) Specification for Tests. Transporter will determine the Total Heating Value of Gas and its component analysis at least once each Month in accordance with the Gas Measurement Committee Report No. 3 prepared by the Gas Measurement Committee of the American Gas Association, dated September 1985 or any subsequent revisions (AGA-3). Such determination will be made using either an on-line chromatograph or by chromatographic analysis of a representative sample of Gas taken with a continuous flow proportional sampler. Chromatography will be performed in accordance with Gas Processors Association (GPA) publications 2261-86 and 2286-86 or any subsequent revisions. The values of the physical constants for the Gas components will be determined by the use of the physical constants listed in Table 5 of AGA-3. For components of the Gas not listed in said Table 5, GPA publication 2145-88 or any subsequent revision will be used.

(c) Non-Hydrocarbon Tests. Tests will be made to determine the total sulfur, hydrogen sulfide, mercaptans, carbon dioxide, nitrogen and oxygen content of the Gas, and the hydrocarbon dew point and water vapor content of such Gas by approved standard methods in general use in the gas industry. Tests will be made frequently enough to assure that the Gas continuously conforms to the quality requirements.

4.5 Failure to Conform.

(a) If the Gas offered for Transportation by Shipper will fail at any time to conform to any of the specifications set forth in Section 4.2, then Transporter will have the right, upon written (including by telecopy) or oral notice to Shipper, to immediately refuse to accept all or any portion of such Gas.

GENERAL TERMS AND CONDITIONS
(Continued)

4. QUALITY (Continued)

4.5 Failure to Conform. (Continued)

(b) Notwithstanding the foregoing, however, in the event the provisions of Section 4.3 are in effect, the following procedures will apply:

(1) When the calculated quality of the Composite Gas Stream approaches 90% of the allowable maximums for those Gas components whose specifications are subject to blending, then Transporter will notify all Shippers whose Gas does not conform with Section 4.2.

(2) When the calculated quality of the Composite Gas Stream equals or exceeds 95% of the allowable maximums for those Gas components whose specifications are subject to blending, Transporter will immediately notify all Shippers whose Gas does not conform that Transporter will commence curtailing receipt of their Gas in the following manner:

(i) Transporter will determine which Gas nominations or receipts do not conform with Section 4.2. For each Shipper whose Gas nominations or deliveries to Transporter do not conform with Section 4.2, Transporter will identify the Quantity of the Gas component that is in excess of the limits set forth in Section 4.2, compute a total thereof for all Shippers, and calculate the percentage of said total for each Shipper.

(ii) The calculated percentage will be used to determine the Quantity of non-conforming component that each of the non-conforming Shippers must eliminate from its Gas nominations and/or deliveries, in order to bring said Composite Gas Stream back to 93% of the quality specifications, of Section 4.2. The required reduction of the non-conforming component will be calculated on the assumption that Shipper

GENERAL TERMS AND CONDITIONS
(Continued)

4. QUALITY (Continued)

4.5 Failure to Conform. (Continued)

will replace its nominations or deliveries of out of compliance Gas by the required reduction Volume using Gas containing none of the non-conforming component. The required reduction, as well as the newly calculated maximum allowable concentration of the non-conforming component, will be communicated to each of the non-conforming Shippers.

(iii) Shipper will reduce the non-conforming component by either replacing nominated or existing Gas deliveries to Transporter with Gas containing less of the non-conforming component or by reducing nominations or deliveries of non-conforming Gas until, inclusive of the reductions of non-conforming components similarly required of any other non-conforming Shippers, the composition of the Composite Gas Stream is again calculated to contain 93% or less of the maximum allowable quality specifications of Section 4.2.

(iv) Should Shipper fail to take adequate corrective action to comply with its obligation in Section 4.5(b)(2)(iii) to reduce the non-conforming component, Transporter will have the right to curtail receipts of non-conforming Gas from Shipper as determined in Section 4.5(b)(2)(ii) above.

(c) Continuation of Obligation to Pay. In the event Transporter refuses to accept Gas tendered by Shipper because such Gas does not conform to the specifications set forth herein, Shipper will not be relieved of its obligation to pay any Reservation Charge provided for in Shipper's Transportation Service Agreement.

GENERAL TERMS AND CONDITIONS
(Continued)

4. QUALITY (Continued)

4.6 Processing Rights. All oil and liquid hydrocarbons separated from the Gas prior to receipt by Transporter will remain the property of Shipper. All liquids or liquefiable hydrocarbons recovered by Transporter, after receipt of Gas hereunder by Transporter and prior to delivery of Gas by Transporter to Shipper, will be and remain the exclusive property of Transporter.

Part VII. Natural gas demand conditions for 2005, 2005 and 2006.

Data Request No. 1
Provide a description regarding the extent that natural gas usage for each year 2004, 2005 and 2006 deviated from normal conditions. Characterize each year if it was considered cold, warm or of average temperature and explain how this was determined. Include an analysis showing number of heating degree days for each year and provide the values for a normal year. A normal year should be computed using a 20-year average of heating degree days.

Data Response No. 1
Kern River is an interstate transporter of natural gas and does not hold title to or use the natural gas it transports in California in its operations or as an end user. Kern River does not relate natural gas transportation to weather conditions and heating degree days are not calculated or monitored by Kern River. However, Kern River has supplied the total quantity of natural gas on a MDth basis that was delivered each year to each of its delivery meters located in California with the delivery meter operator and the EIA usage type included.

Meter Name	Operator	Usage	2006	2005	2004
Tehachapi Cummings	Tehachapi Cummings Water District	Commercial	283	283	326
Coolwater	Reliant Energy Services, Inc.	Electric Power	7,229	4,110	4,166
La Paloma	La Paloma Generating	Electric Power	40,250	32,519	40,182
Pastoria	Calpine Energy Services, LP	Electric Power	32,426	18,620	0
Sunrise	Sunrise Power Company, LLC	Electric Power	26,244	24,449	23,454
Victorville	High Desert Power Trust	Electric Power	28,717	26,896	27,795
17Z Chevron	Chevron USA Inc.	Industrial	1,552	688	483
17Z Mobil	Aera Energy LLC	Industrial	11,378	9,110	8,531
17Z Shell	Aera Energy LLC	Industrial	1,601	1,798	1,992
17Z Texaco	Chevron USA Inc.	Industrial	15,959	4,520	3,163
Bear Mountain	Juniper Generation, LLC	Industrial	3,033	3,074	3,415
Boron	U.S. Borax, Inc.	Industrial	3,729	3,213	3,273
China Grade	Oildale Energy LLC	Industrial	2,830	1,853	2,813
Crocker Springs	Aera Energy LLC	Industrial	8,660	10,002	11,194
Granite	McPherson Oil	Industrial	2,541	2,566	2,661
Grapevine	Equilon Pipeline Company	Industrial	0	0	0
Kern Front	Juniper Generation, LLC	Industrial	16,287	15,506	18,507
Kern River Chevron	Chevron USA Inc.	Industrial	4,585	4,614	4,670
Kern River Santa Fe	Chevron USA Inc.	Industrial	702	527	469
McKittrick	Juniper Generation, LLC	Industrial	3,137	2,919	3,299
Midway Midset	Chevron USA Inc.	Industrial	3,701	3,854	4,115
Midway Santa Fe	Chevron USA Inc.	Industrial	11,134	5,924	4,394
Mt. Poso	Chevron USA Inc.	Industrial	1,724	1,627	1,744
N Kern River	Chevron USA Inc.	Industrial	0	16	34
North Midway	Aera Energy LLC	Industrial	9,208	7,113	5,327
Oxford	Aera Energy LLC	Industrial	319	858	1,107
Racetrack	Chevron USA Inc.	Industrial	114	88	83
SE Kern River	Chevron USA Inc.	Industrial	1,307	1,803	2,652
South Midway	Aera Energy LLC	Industrial	20,347	20,446	21,156
Sycamore	Chevron USA Inc.	Industrial	50,385	46,807	47,731
Taft	Chevron USA Inc.	Industrial	1,025	913	1,771
Daggett	Pacific Gas and Electric Company	LDC	96,027	55,599	29,057
Freemont Peak	Pacific Gas and Electric Company	LDC	1,319	822	307
Kramer Junction	Southern California Gas Company	LDC	68,585	95,282	92,513
Wheeler Ridge	Southern California Gas Company	LDC	118,306	125,789	114,683
Dag Moj	Mojave Pipeline Company	Other Pipelines	30,942	0	0
Annual Total (Mdths)			**625,586**	**534,205**	**487,068**

(END OF ATTACHMENT E)

ATTACHMENT F

November 19, 2007

Eugene Cadenasso
California Public Utilities Commission
Energy Division
505 Van Ness Avenue
San Francisco, CA 94102-3298

Re: CPUC Docket No. R06-04-009 and CEC Docket #07-OIIIP-1
Staff request for information concerning greenhouse gas (GHG) emissions associated with the natural gas sector issued October 16, 2007.

Dear Mr. Cadenasso,

As part of our continuing voluntary efforts to cooperate with the California Public Utilities Commission and the California Energy Commission (CEC) in the referenced proceedings, I am pleased to provide you, on behalf of El Paso Natural Gas Company (EPNG) and Mojave Pipeline Company (Mojave), with the following responses to Staff's requests dated November 6, 2007:

1. I am enclosing copies of annual reports (CCR §1309 schedules) that EPNG and Mojave have filed with the CEC. These set forth the natural gas volumes delivered to California and to California utilities by EPNG and Mojave during the years 2004-06.[1]

2. Data regarding greenhouse gas (GHG) emissions from the EPNG and Mojave facilities in California, are available for the year 2006 at http://www.climateregistry.org/CARROT/public/reports.aspx. This is a link to the certified emission data submitted by El Paso Corporation[2] to the California Climate Action Registry (CCAR) for 2006. On July 16th of this year El Paso became the first natural gas company to certify its emissions and earn the status of Climate Action Leader. Indeed, we are also the first

[1] The EPNG report for 2004 is not available at this time.

[2] EPNG and Mojave are subsidiaries of El Paso Corporation.

El Paso Corporation
1001 Louisiana, PO Box 2511
Houston, TX 77252
(713) 420-7913

CCAR member to report and certify an emissions inventory for 2006.[3]

3. For the reasons set forth in our October 23rd comments on the draft of Staff's requests, we decline to attempt to calculate GHG emissions by entities that our pipelines delivered natural gas to. As we explained in those comments:

> While it is theoretically possible to compute estimated emissions of carbon dioxide (CO_2) and not carbon dioxide equivalents (CO_{2e}) based on known quantities of natural gas (using stoichiometric assumptions), the accuracy of such calculations is highly dependent on the configuration of the end use facilities. Further, as indicated above, it would not be possible to reliably estimate the total CO_{2e} emissions by simply relying on natural gas volumes as a proxy. To arrive at the CO_{2e} from natural gas end use, in addition to CO_2, at a minimum, emissions of CH_4 and nitrous oxides (N2O) must be computed. It is quite impossible to reliably determine the methane (CH_4) due to fugitive or process emission sources, or CH_4 emissions due to incomplete combustion or N_2O emissions by simply relying on the quantity of natural gas delivered due to relatively poor emission factors. Further, any requirement to estimate downstream end users' emissions for interstate natural gas pipelines would impose an unreasonable burden on El Paso and other pipeline companies for no good reason in light of the sophisticated nature of such downstream users.
>
> Further, reliance on natural gas volumes as a proxy for total CO_{2e} end use emissions will seriously damage the integrity of any cap-and-trade program due to extremely poor or unreliable methodologies to estimate CH_4 and N_2O emissions.

I hope that you and your staff will find this information useful. Please contact me should you have any questions.

Sincerely,

Fiji George by SCL

Fiji C. George
Manager, EH&S

---

[3] Emissions data for 2004 and 2005 is not available.

El Paso Corporation
1001 Louisiana, PO Box 2511
Houston, TX 77252
(713) 420-7913

CEC-1309 Schedule 1: Interstate Pipeline Natural Gas Receipts in California

Company Name El Paso Natural Gas Company

Check One
X Original Submittal
___Correction

Company Number 08 Year 2005

Units: X Therms __mcf

Line No	Natural Gas Receipts	Volume
1	**Sources Inside California**	
2	California Production	
3	Kern River Station	
4	Hector Road	
5	Daggett	
6	Wheeler Ridge	
7	Other (Designate)	
8	1	
9	2	
10	3	
11	4	
12		
13	Total	0
14		
15	BTU per Cubic Foot	

CEC-1309 Schedule 2: Interstate Pipeline Natural Gas Deliveries to California Customers

Company Name El Paso Natural Gas Company

Check One
X Original Submittal
___Correction

Company Number 08

Year 2005

Units: X therms __mcf

Line No	County Number	SIC or NAICS	Number of Accounts	Volume
1			Number of Accounts	
2			0	0
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21	Btu per cubic foot			

CEC-1309 Schedule 3: Interstate Pipeline Deliveries to California Gas Utilities and Other Interstate Pipelines

Company Name El Paso Natural Gas Company

Check One
_X_ Original Submittal
___ Correction

Company Number 08

Year 2005

Units: _X_ therms __mcf

Line No	Delivery to Gas Utility or Interstate Pipeline	Pipeline Code	Volume					
			Pipeline	PG&E	SoCal Gas	SDG&E	Other (Designate) Blythe Energy LLC	Other (Designate)
	Delivery Point							
1	Topock	02	40,290,873	184,815,801	162,410,691			
2	Needles							
3	Blythe							
4	Malin							
5	Wheeler Ridge							
6	Hector Road							
7	Daggett							
8	Kern River Station							
9	Other (Designate)							
10	1 Ehrenberg				165,846,242			
11	2 North Baja	03	86,858,085					
12	3 Ehrenberg (Blythe)						6,615,278	
13	4							
14	Total		127,148,958	184,815,801	328,256,933		6,615,278	
15	Btu per Cubic Foot							

CEC-1309 Schedule 1: Interstate Pipeline Natural Gas Receipts in California

Company Name El Paso Natural Gas Company

Check One
X Original Submittal
___Correction

Company Number 08 Year 2006

Units: X Therms __mcf

Line No	Natural Gas Receipts	Volume
1	**Sources Inside California**	
2	California Production	
3	Kern River Station	
4	Hector Road	
5	Daggett	
6	Wheeler Ridge	
7	Other (Designate)	
8	1	
9	2	
10	3	
11	4	
12		
13	Total	0
14		
15	BTU per Cubic Foot	

CEC-1309 Schedule 2: Interstate Pipeline Natural Gas Deliveries to California Customers

Company Name El Paso Natural Gas Company

Check One
X Original Submittal
___Correction

Company Number 08

Year 2006

Units: X therms __mcf

Line No	County Number	SIC or NAICS	Number of Accounts	Volume
1			Number of Accounts	
2			0	0
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21	Btu per cubic foot			

CEC-1309 Schedule 3: Interstate Pipeline Deliveries to California Gas Utilities and Other Interstate Pipelines

Company Name El Paso Natural Gas Company

Check One
_X_Original Submittal
___Correction

Company Number 08

Year 2006

Units: X therms __mcf

Line No	Delivery to Gas Utility or Interstate Pipeline	Pipeline Code	Volume					
			Pipeline	PG&E	SoCal Gas	SDG&E	Other (Designate) Blythe Energy LLC	Other (Designate)
	Delivery Point							
1	Topock	02	12,947,356	184,652,041	162,877,527			
2	Needles							
3	Blythe							
4	Malin							
5	Wheeler Ridge							
6	Hector Road							
7	Daggett							
8	Kern River Station							
9	Other (Designate)							
10	1 Ehrenberg				271,754,071			
11	2 North Baja	03	97,880,797					
12	3 Ehrenberg (Blythe)						7,875,674	
13	4							
14	Total		110,828,153	184,652,041	434,631,598		7,875,674	
15	Btu per Cubic Foot							

CEC-1309 Schedule 1: Interstate Pipeline Natural Gas Receipts in California

Company Name_____ Mojave Pipeline Company

Check One
_X__Original Submittal
___Correction

Company Number 65000 Year 2004

Units: _X_Therms __mcf

Line No	Natural Gas Receipts	Volume
1	**Sources Inside California**	
2	California Production	11,018,560
3	Kern River Station	
4	Hector Road	
5	Daggett	
6	Wheeler Ridge	
7	Other (Designate)	
8	1	
9	2	
10	3	
11	4	
12		
13	Total	11,018,560
14		
15	BTU per Cubic Foot	

CEC-1309 Schedule 2: Interstate Pipeline Natural Gas Deliveries to California Customers

Company Name_____ Mojave Pipeline Company

Check One
_X__Original Submittal
___Correction

Company Number 65000

Year 2004

Units: _X_therms __mcf

Line No	County Number	SIC or NAICS	Number of Accounts	Volume
1			3	29,672,864
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21	Btu per cubic foot			

CEC-1309 Schedule 3: Interstate Pipeline Deliveries to California Gas Utilities and Other Interstate Pipelines

Company Name_____ Mojave Pipeline Company

Check One
_X__Original Submittal
___Correction

Company Number 65000

Year 2004

Units: _X_therms __mcf

Line No	Delivery to Gas Utility or Interstate Pipeline	Pipeline Code	Volume					
			Pipeline	PG&E	SoCal Gas	SDG&E	Other (Designate) _____	Other (Designate) _____
	Delivery Point							
1	Topock							
2	Needles							
3	Blythe							
4	Malin							
5	Wheeler Ridge							
6	Hector Road							
7	Daggett							
8	Kern River Station							
9	Other (Designate)							
10	Coral Gas Marketing Co.						213,006	
11	Occidential Energy						4,598,992	
12	OXY USA, Inc						2,779,951	
13	Reliant Energy						0	
14	Total							
15	Btu per Cubic Foot							

CEC-1309 Schedule 1: Interstate Pipeline Natural Gas Receipts in California

Company Name_____ Mojave Pipeline Company

Check One
_X__Original Submittal
___Correction

Company Number 65000 Year 2005

Units: _X_Therms __mcf

Line No	Natural Gas Receipts	Volume
1	**Sources Inside California**	
2	California Production	9,263,284
3	Kern River Station	
4	Hector Road	
5	Daggett	
6	Wheeler Ridge	
7	Other (Designate)	
8	1	
9	2	
10	3	
11	4	
12		
13	Total	9,263,284
14		
15	BTU per Cubic Foot	

CEC-1309 Schedule 2: Interstate Pipeline Natural Gas Deliveries to California Customers

Company Name_____ Mojave Pipeline Company

Check One
_X__Original Submittal
___Correction

Company Number 65000

Year 2005

Units: _X_therms __mcf

Line No	County Number	SIC or NAICS	Number of Accounts	Volume
1			3	28,558,784
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21	Btu per cubic foot			

CEC-1309 Schedule 3: Interstate Pipeline Deliveries to California Gas Utilities and Other Interstate Pipelines

Company Name_____ Mojave Pipeline Company

Check One
_X__Original Submittal
___Correction

Company Number 65000

Year 2005

Units: _X_therms __mcf

Line No	Delivery to Gas Utility or Interstate Pipeline	Pipeline Code	Volume					
			Pipeline	PG&E	SoCal Gas	SDG&E	Other (Designate) _____	Other (Designate) _____
	Delivery Point							
1	Topock							
2	Needles							
3	Blythe							
4	Malin							
5	Wheeler Ridge				14,730,684			
6	Hector Road							
7	Daggett							
8	Kern River Station							
9	Other (Designate)							
10	BP Energy						0	
11	Burlington Res Trading						4,975,267	
12	ConocoPhillips Company						13,000	
13	Coral Energy Resources						2,712,766	
14	Total							
15	Btu per Cubic Foot							

California Energy Commission, MS-21
1516 Ninth Street
Sacramento, CA 95814
OFERGEN@energy.state.ca.us

California Code of Regulations, Title 20, Division2, Section 1309 (a) – (c)
Schedule 1-2

Person Submitting the report:

Lawrence G. Williams, Director Volume Analysis
Mojave Pipeline Company
P.O. Box 1087
2 N. Nevada Ave.
Colorado Springs, CO 80903
Telephone: (719) 667-7558 Fax (719) 520-4504
Email: Larry.Williams@ElPaso.com

Company responsible For submitting the report: Mojave Pipeline Company

I certify under the penalty of the laws of the State of California that I am authorized by Mojave Pipeline Company to submit the enclosed report. This report fulfills the requirement for CCR, Title 20, Division2, Section 1309 (a) – (c) for the period beginning January 1, 2006, and ending December 31, 2006.

The matters contained in this report are, to the best of my knowledge and belief and based on diligent investigation, true, accurate, complete and in compliance with these regulations.

Lawrence G. Williams
Director Volume Analysis
Mojave Pipeline Company

2/9/07
Date

CEC-1309 Schedule 1: Interstate Pipeline Natural Gas Receipts in California

Company Name_____ Mojave Pipeline Company

Check One
_X__Original Submittal
___Correction

Company Number 65000 Year 2006

Units: _X_Therms __mcf

Line No	Natural Gas Receipts	Volume
1	**Sources Inside California**	
2	California Production	11,403,327
3	Kern River Station	
4	Hector Road	
5	Daggett	
6	Wheeler Ridge	
7	Other (Designate)	
8	1	
9	2	
10	3	
11	4	
12		
13	Total	11,403,327
14		
15	BTU per Cubic Foot	

CEC-1309 Schedule 2: Interstate Pipeline Natural Gas Deliveries to California Custome

Company Name_____ Mojave Pipeline Company

Check One
_X__Original Submittal
___Correction

Company Number 65000

Year 2006

Units: _X_therms __mcf

Line No	County Number	SIC or NAICS	Number of Accounts	Volume
1			2	5,851,862
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21	Btu per cubic foot			5,851,862

CEC-1309 Schedule 3: Interstate Pipeline Deliveries to California Gas Utilities and Other Interstate Pipelines

Company Name_____ Mojave Pipeline Company

Check One
_X__Original Submittal
___Correction

Company Number 65000

Year 2006

Units: _X_therms __mcf

Line No	Delivery to Gas Utility or Interstate Pipeline	Pipeline Code	Volume					
			Pipeline	PG&E	SoCal Gas	SDG&E	Other (Designate) _____	Other (Designate) _____
	Delivery Point							
1	Topock							
2	Needles							
3	Blythe							
4	Malin							
5	Wheeler Ridge				14,408,545			
6	Hector Road							
7	Daggett							
8	Kern River Station							
9	Other (Designate)							
10	El Paso Natural Gas						0	
11	Occidential Energy						0	
12	OXY USA, Inc						0	
13	Reliant Energy						0	
14	Total							
15	Btu per Cubic Foot							

CEC-1309 Schedule 3: Interstate Pipeline Deliveries to California Gas Utilities and Other Interstate Pipelines

Company Name_____ Mojave Pipeline Company

Check One
_X__Original Submittal
___Correction

Company Number 65000

Year 2006

Units: _X_therms __mcf

Line No	Delivery to Gas Utility or Interstate Pipeline	Pipeline Code	Volume					
			Pipeline	PG&E	SoCal Gas	SDG&E	Other (Designate) _____	Other (Designate) _____
	Delivery Point							
1	Aera Energy LLC						36,256	
2	Astra Power LLC						896,489	
3	BP Energy Company						122,655	
4	Coral Energy						436,984	
5	El Paso Marketing						10,898	
6	El Paso Natural Gas						140,362,762	
7	Magnus Energy						20,227	
8	Oxy USA						4,785,063	
9	Other (Designate)							
10	Reliant Energy						72,651	
11	Sempra Energy						825,205	
12	Southern California Gas						603,318	
13	Chevron USA Inc						7,686	
14	Total				0		148,180,194	
15	Btu per Cubic Foot							

(END OF ATTACHMENT F)

ATTACHMENT G

GOODIN, MACBRIDE,
SQUERI, DAY & LAMPREY, LLP
Attorneys at Law

505 Sansome Street
Suite 900
San Francisco
California 94111

Telephone
415/392-7900
Facsimile
415/398-4321

Jeanne B. Armstrong

November 19, 2007

Eugene Cadenasso
Energy Division
California Public Utilities Commission
505 Van Ness Avenue, 4th Floor
San Francisco, CA 94102

Re: California Public Utilities Commission (CPUC) Rulemaking (R.) 06-04-009 and California Energy Commission (CEC) Docket #07-OIIIP-1

Dear Mr. Cadenasso:

Wild Goose Storage, LLC ("Wild Goose") is in receipt of the Data Request regarding the level of green house gas emissions by the natural gas sector in California which was issued by the Energy Division of the California Public Utilities Commission on November 6, 2007. Given the nature of Wild Goose's operations – which entail storing natural gas for other companies, agencies or municipalities[1] -- most of the questions set forth in the request are inapplicable to Wild Goose.

Accordingly, Wild Goose's response is limited to the information elicited by Part VI of the Data Request -- natural gas use and GHG emissions associated with natural gas infrastructure within California for each year 2004, 2005 and 2006. Specifically, on the attached excel spread sheet, Wild Goose is providing the GHG emissions associated with the volume of natural gas burned at its storage facilities to operate natural gas compressor sets and the heaters in its natural gas processing unit. It should be noted that these gas volumes will also be included in Pacific Gas and Electric Company's deliveries to Wild Goose; accordingly there is a possibility of double counting these gas volume.

---

[1] Wild Goose's tariff provides that it does not take title to the gas it is storing. Rather the gas is received on behalf of a customer from Pacific Gas and Electric Company's transmission facilities, and when nominated for withdrawal by the customer, is delivered back into the same line.

Eugene Cadenasso
November 19, 2007
Page 2.

If you have any questions, please contact me at (415) 392-7900.

Sincerely,

Jeanne B. Armstrong

Counsel for Wild Goose Storage, LLC

3278/005/X94352

Wild Goose Storage Operations - GHG Emissions

Assumptions used in the calculations:

Methane % by volume	95%
Ethane % by volume	2.00%
Propane % by volume	0.25%
CO_2 Emissions per ft^3 of fuel (ft^3/ft^3)	99.75%
CO_2 Specific Volume (ft3/lb)	8.62
CO_2 Density (lb/ft3)	0.116
Heat content of fuel (But/SCF, LHV)	917.00

Calculations:

All calculations are self explanatory except for the CO_2 Mass Emissions. These are calculated by:

CO_2 Mass = SCFM of fuel x CO_2 emissions per ft^3 of fuel x CO_2 density x 2205 lb/tonne

Calculation of the N_2O and methane were made using he factors from Appendix A, Tables 2 and 6. The CO2 factor is as derive above.

Wild Goose CO_2 Emissions

From onsite combustion of Natural Gas

PART VI

	Plant wide Natural Gas Consumption		CO_2 Mass Emissions	Methane Emissions	N2O Emissions
2004	(MMSCF)	(MMBtu HHV)	(tonnes)	(Tonnes)	(Tonnes)
January	16.47	16,613	865	0.015	0.002
February	29.29	29,545	1,538	0.027	0.003
March	15.31	15,443	804	0.014	0.002
April	43.54	43,919	2,287	0.040	0.004
May	46.69	47,096	2,452	0.042	0.005
June	24.96	25,177	1,311	0.023	0.003
July	10.11	10,198	531	0.009	0.001
August	10.03	10,117	527	0.009	0.001
September	10.05	10,137	528	0.009	0.001
October	12.04	12,145	632	0.011	0.001
November	6.21	6,264	326	0.006	0.001
December	1.83	1,846	96	0.002	0.000
Total 2004 Emissions			11,898	0.206	0.023
2004 CO_2 Equivalent			11,898	4.32	7.08
Annual Total		11,910			
2005	(MMSCF)	(MMBtu HHV)	(tonnes)	(Tonnes)	(Tonnes)
January	4.65	4,690	244	0.004	0.000
February	25.53	25,752	1,341	0.023	0.003
March	43.64	44,020	2,292	0.040	0.004
April	48.93	49,356	2,570	0.044	0.005
May	61.03	61,561	3,206	0.055	0.006
June	32.86	33,146	1,726	0.030	0.003
July	11.28	11,378	592	0.010	0.001
August	8.37	8,443	440	0.008	0.001
September	20.35	20,527	1,069	0.018	0.002
October	20.05	20,224	1,053	0.018	0.002
November	5.35	5,397	281	0.005	0.001
December	5.18	5,225	272	0.005	0.001
Total 2005 Emissions			15,086	0.261	0.029
2005 CO_2 Equivalent			15,086	5.48	8.98
Annual Total		15,101			
2006	(MMSCF)	(MMBtu HHV)	(tonnes)	(Tonnes)	(Tonnes)
January	15.28	15,409	802	0.014	0.002
February	67.96	68,550	3,570	0.062	0.007
March	16.87	17,019	886	0.015	0.002
April	32.48	32,758	1,706	0.029	0.003
May	41.20	41,555	2,164	0.037	0.004
June	26.09	26,314	1,370	0.024	0.003

July	7.80	7,870	410	0.007	0.001
August	5.84	5,890	307	0.005	0.001
September	28.87	29,120	1,516	0.026	0.003
October	18.55	18,708	974	0.017	0.002
November	3.45	3,479	181	0.003	0.000
December	2.85	2,875	150	0.003	0.000
Total 2006 Emissions			14,036	0.243	0.027
2006 CO_2 Equivalent			14,036	5.09	8.36
Annual Total		14,049			
Total CO2 Equivalent		**41,060**			

(END OF ATTACHMENT G)

ATTACHMENT H

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November 19, 2007

VIA EMAIL
VIA REGULAR MAIL

Eugene Cadenasso
California Public Utilities Commission
4th Floor
505 Van Ness Avenue
San Francisco, CA 94102

Re: R.06-04-009: Response of Lodi Gas Storage, L.L.C. to 11/6/07 Data Request

Dear Mr. Cadenasso:

By this letter and the attached document, Lodi Gas Storage, L.L.C. ("LGS") replies to the data requests dated November 6, 2007. As explained in this letter, many of the requests do not apply to an independent natural gas storage provider such as LGS and/or would result in over-counting of GHG emissions. As such, LGS is primarily responding to Part VI related to LGS' own use of natural gas and associated GHG emissions.

Part I. General Reporting Requirements.

1) Contact Individual:

Scott Wilson
Vice President
Lodi Gas Storage
P.O. Box 230
23265 N. State Road 99
Acampo, CA 95220
Telephone: 209-368-9277, ext. 11
Email : swilson@lodistorage.com

Part II. Natural gas use and GHG Emissions by end users for 2004, 2005 and 2006

LGS is a natural gas storage provider. LGS does not sell natural gas to end users, and all gas stored and ultimately delivered by the owner to the end user would be captured in reports by the entity actually delivering gas to end users. Thus, any report by LGS on the same gas would result in a double or triple counting of the GHG Emissions. In addition, in most instances, LGS does not know the ultimate end-user of the natural gas stored with LGS.

Part III. Natural gas use and GHG emissions of cogeneration and combined heat and power end users.

For the reasons stated on Part II above, LGS is unable to respond to this question but notes that all natural gas use and GHG emissions should be reported by the entities that use LGS storage in terms of the gas actually delivered to such end-users

Part IV. Natural gas deliveries to wholesale customers of investor owned utilities.

See responses to Parts II and III above.

Part V. Feedstock uses of natural gas

See responses to Parts II and III above.

Part VI. Natural gas use and GHG emissions associated with natural gas infrastructure.

LGS is able to respond to this request for natural gas use for its own operations. See attached Excel spreadsheet showing the natural gas combusted by LGS and the associated GHG emissions. The data contained in the chart is based on actual observation/measurement. LGS has not reported these emissions to a GHG emissions registry.

In terms of gas volumes unintentionally released (fugitive) or vented from system operations, LGS has not calculated any such volumes but believe that the figure would be *de minimus* as compared to the other operational emissions at LGS.

Gas injected into the LGS storage facilities must comply with tariff specifications on the Pacific Gas & Electric Co. ("PG&E") system.

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Part VII. Natural gas demand conditions for 2004, 2005, and 2006

LGS understands this question as relating to usage by end-users of natural gas for heating purposes. The usage reported in Part VI relates exclusively to use by LGS in its own operations and does not necessarily fluctuate with a cold versus warm winter. As such, LGS is unable to answer this question in more detail.

Please contact Scott Wilson at the number shown in Part I or the undersigned if you have any questions regarding this data request.

Very truly yours,

/s/ James W. McTarnaghan

James W. McTarnaghan

JWM/bam
Attachment

Natural Gas Volumes Combusted and Associated GHG Emissions

Equipment Type	Year	Natural Gas Combusted (MMBtu)	GHG Emissions (From Regulation Appendix A-5) Carbon Dioxide (CO_2) (kilograms)	GHG Emissions (From Regulation Appendix A-8) Methane (CH_4) (kilograms)	GHG Emissions (From Regulation Appendix A-8) Nitrous Oxide (N_20) (kilograms)
Natural Gas Engine Driven Compressors	2004	253,134	13,383,195	227.82	25.31
	2005	264,388	13,978,183	237.95	26.44
	2006	209,088	11,054,471	188.18	20.91
Dehydration Reboilers	2004	16,187	855,825	14.57	1.62
	2005	11,953	631,964	10.76	1.20
	2006	11,088	586,223	9.98	1.11
Emergency Generator	2004	285	15,079	0.26	0.03
	2005	48	2,522	0.04	0.00
	2006	185	9,767	0.17	0.02
Flares	2004	586	30,964	0.53	0.06
	2005	627	33,164	0.56	0.06
	2006	565	29,890	0.51	0.06
Totals	2004	270,192	14,285,062	243.17	27.02
	2005	277,016	14,645,833	249.31	27.70
	2006	220,926	11,680,350	198.83	22.09

(END OF ATTACHMENT H)

ATTACHMENT I

November 09, 2007

Eugene Cadenasso
Energy Division
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102

Re: CPUC Rulemaking R.06-04-009

Dear Mr. Cadenasso:

Enclosed are 6 copies of West Coast Gas Company, Inc.'s response to the CPUC's Data Request regarding GHG emissions.

In addition to the 6 hard copies, an electronic copy was e-mailed to cpe@cpuc.ca.gov.

Yours truly,

Ray Czahar, C.P.A., CFO
West Coast Gas Company, Inc.

West Coast Gas Company, Inc.
Response to CPUC Natural Gas Sector Data Request

Part I - General Reporting Requirements.

1 Respondent Data:

Company: West Coast Gas Company, Inc.
Contact: Raymond J. Czahar
Title: C.F.O.
e-mail Westgas@aol.com
Phone: 916-364-4100

2 Decatherm devlieries of natural gas to end-use customers in California:

	Service Area			
Year	Mather	Castle	Herlong [1]	Total
2004	94,553	67,301	61,499	223,352
2005	90,806	65,731	57,899	214,436
2006	99,986	67,712	62,442	230,140

Note 1: Herlong's gas facilities are within the boundries of a Federal Enclave - Sierra Army Depot.

3 Natural Gas Emission Factors Used to Calculate GHG Emissions:

kg. Carbon/MMBtu	14.43
kg. CO_2/MMBtu	52.87
g of Methane (CH_4)/MMBtu	0.9
g of Nitrous Oxide (N_2O)/MMBtu	0.1

4 Emissions of GHG by End Use Customers:

Year	kilograms C	kilograms CO_2	grams CH_4	grams N_2O
2004	3,222,968	11,808,615	201,017	22,335
2005	3,094,309	11,337,221	192,992	21,444
2006	3,320,922	12,167,507	207,126	23,014

Year	Metric Tons C	Metric Tons CO_2	kilograms CH_4	kilograms N_2O
2004	3,223.0	11,808.6	201.0	22.3
2005	3,094.3	11,337.2	193.0	21.4
2006	3,320.9	12,167.5	207.1	23.0

Year	Metric Tons C	Metric Tons CO_2	Metric Tons CH_4	Metric Tons N_2O
2004	3,223.0	11,808.6	0.20	0.02
2005	3,094.3	11,337.2	0.19	0.02
2006	3,320.9	12,167.5	0.21	0.02

West Coast Gas Company, Inc.
Response to CPUC Natural Gas Sector Data Request

Part II - Natural gas use and GHG emissions by end users.

a) Residential End Users:

Year	Number of Customers	Decatherms Delivered	Metric Tons C	Metric Tons CO2	Metric Tons CH4	Metric Tons N2O
2004	1262	61,384	885.8	3,245.4	0.055	0.006
2005	1271	58,883	849.7	3,113.1	0.053	0.006
2006	1271	62,550	902.6	3,307.0	0.056	0.006

b) Non-Residential End Users:

Tier I (all non-residential end use is Tier 1)

Year	Number of Customers	Decatherms Delivered	Metric Tons C	Metric Tons CO2	Metric Tons CH4	Metric Tons N2O
2004	115	156,051	2,337.2	8,563.2	0.146	0.016
2005	122	148,705	2,244.6	8,224.1	0.140	0.016
2006	128	162,428	2,418.3	8,860.5	0.151	0.017

c) Statistical Usage - Number of Customer per Usage Block:

	Therm Usage < 20K	Therm Usage 20K to 40K	Therm Usage 40K to 60K	Therm Usage 400K to 420K	Therm Usage 560 K to 580K	Therm Usage 600K to 620K	Therm Usage 620K to 640K
2004	109	2	2	1		1	
2005	116	2	2	1	1		
2006	122	2	2	1			1

d) There are no transportation end users.

Part III though Part VI do not apply to WCG.

Part VII - Degree Day Variance from Nomal Year.

The year 2005 was a below normal year representing a reduction of 5% from normal heating degree days in the areas served by WCG.

(END OF ATTACHMENT I)

ATTACHMENT J

Mike Lamond, CFO
Alpine Natural Gas
209-772-3006
Mike@alpinenaturalgas.com

			2004	2005	2006
Natural Gas Volumes MDth			37,890	42,016	47,817
# customers			796	938	1057
Kg Co_2			2,003,244	2,221,386	2,528,085
# Residential Customers			796	933	1051
	MDth		37,890	40,986	46,655
# Retail/Commercial		N/A		5	6
	MDth	N/A		1,030	1,162

(END OF ATTACHMENT J)

ATTACHMENT K

Public Version

	# of customers	Natural Gas Volumes in MDth	CO2 Metric Tonnes	CH4 Metric Tonnes	N2O Metric Tonnes	% of CO2 emissions
2004						
Total of PG&E, SDG&E, SoCalGas, and Southwest Gas						
Residential	10,011,214	507,172	26,814,369	6,578	3,873	48.2%
< 2 mil therms (non-NGV)	491,424	289,319	15,292,806	11,653	2,269	27.5%
2 mil to < 3 mil therms (non-NGV)	*	20,962	1,108,268	260	152	2.0%
3< 4.5 million (non-NGV)	*	19,315	1,021,196	236	139	1.8%
> 4.5 million therms (non-NGV)	*	210,228	11,114,747	3,299	1,963	20.0%
< 2 mil therms (NGV)	1,446	4,009	208,318	251	10	0.4%
≥ 2 mil therms (NGV)	*	5,171	60,096	637	9	0.1%
total	*	1,056,176	55,619,800	22,914	8,415	100.0%
2005						
Total of PG&E, SDG&E, SoCalGas, and Southwest Gas						
Residential	10,185,038	483,397	25,558,455	6,337	3,735	47.1%
< 2 mil therms (non-NGV)	493,897	285,217	15,076,021	11,461	3,757	27.8%
2 mil to < 3 mil therms (non-NGV)	*	22,076	1,167,176	290	170	2.2%
3< 4.5 million (non-NGV)	*	18,598	983,283	216	126	1.8%
> 4.5 million therms (non-NGV)	*	211,751	11,195,258	3,440	2,051	20.6%
< 2 mil therms (NGV)	1,474	4,419	230,069	279	11	0.4%
≥ 2 mil therms (NGV)	*	5,567	49,937	694	10	0.1%
total	*	1,031,025	54,260,199	22,717	9,860	100.0%

Note 1: "*" Items Claimed Confidential
Note 2: % of C02 emissions does not include CH4 and N20 emissions

Public Version

	# of customers	Natural Gas Volumes in MDth	CO2 Metric Tonnes	CH4 Metric Tonnes	N2O Metric Tonnes	% of CO2 emissions
2006						
Total of PG&E, SDG&E, SoCalGas, and Southwest Gas						
Residential	10,333,893	498,907	26,378,918	6,559	3,865	47.2%
< 2 mil therms (non-NGV)	496,776	288,930	15,272,705	11,566	2,291	27.3%
2 mil to < 3 mil therms (non-NGV)	*	20,050	1,060,045	287	170	1.9%
3< 4.5 million (non-NGV)	*	20,304	1,073,438	207	119	1.9%
> 4.5 million therms (non-NGV)	*	222,231	11,827,995	3,637	2,169	21.2%
< 2 mil therms (NGV)	1,232	4,643	242,255	313	12	0.4%
≥ 2 mil therms (NGV)	*	7,731	64,308	755	11	0.1%
total	*	1,062,796	55,919,664	23,324	8,637	100.0%

Note 1: "*" Items Claimed Confidential
Note 2: % of C02 emissions does not include CH4 and N20 emissions

(END OF ATTACHMENT K)