

DOCKETED

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Project Title:	Palomar Energy Project Compliance
TN #:	202946
Document Title:	Turbine 2 CEMS Startup Data 2011-2013
Description:	N/A
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Organization:	California Energy Commission
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Turbine 2

CeDAR 1-Hour Data

Data for 1/1/2011 thru 12/31/2011

Timestamp	Process Code	60-NOx lbs 1-Hr	CT Gas On-Time	NOx lbs/hr
1/1/2011 12:00	3	32.7	0.62	53
1/2/2011 8:00	3	19.3	0.28	69
1/2/2011 9:00	3	4.8	1.00	5
1/3/2011 4:00	3	19.2	0.28	69
1/3/2011 5:00	3	4.2	1.00	4
1/6/2011 5:00	3	22.5	0.53	42
1/7/2011 4:00	3	22.4	0.43	52
1/7/2011 5:00	3	5.1	1.00	5
1/8/2011 5:00	3	26.9	0.43	63
1/8/2011 6:00	3	5.2	1.00	5
1/9/2011 6:00	3	22.9	0.38	60
1/9/2011 7:00	3	4.7	1.00	5
1/10/2011 3:00	3	15.4	0.83	19
1/11/2011 3:00	3	13.2	0.38	35
1/12/2011 4:00	3	14.7	0.28	53
1/12/2011 5:00	3	5.2	1.00	5
1/13/2011 5:00	3	11.5	0.18	64
1/13/2011 6:00	3	13.6	1.00	14
1/14/2011 6:00	3	1.5	0.08	19
1/14/2011 7:00	3	26.0	1.00	26
1/15/2011 10:00	3	68.9	0.80	86
1/15/2011 11:00	3	3.2	1.00	3
1/16/2011 8:00	3	21.7	0.32	68
1/16/2011 9:00	3	7.4	1.00	7
1/17/2011 8:00	3	21.6	0.43	50
1/17/2011 9:00	3	6.3	1.00	6
1/18/2011 5:00	3	12.4	0.18	69
1/18/2011 6:00	3	13.2	1.00	13
1/19/2011 6:00	3	39.0	0.42	93
1/19/2011 7:00	3	17.6	1.00	18
1/20/2011 11:00	3	0.5	0.05	10
1/20/2011 12:00	3	67.2	1.00	67
1/21/2011 4:00	3	20.2	0.27	75
1/21/2011 5:00	3	5.7	1.00	6
1/24/2011 3:00	3	62.4	0.53	118
1/24/2011 4:00	3	120.0	1.00	120
1/24/2011 5:00	3	18.0	0.38	47
1/24/2011 6:00	3	44.1	0.93	47
1/24/2011 7:00	3	28.9	1.00	29
1/25/2011 4:00	3	13.8	0.22	63
1/25/2011 5:00	3	13.2	1.00	13
1/26/2011 4:00	3	12.5	0.18	69

1/26/2011 5:00	3	15.0	1.00	15
1/27/2011 4:00	3	20.0	0.28	71
1/27/2011 5:00	3	6.7	1.00	7
1/28/2011 4:00	3	24.2	0.30	81
1/28/2011 5:00	3	6.4	1.00	6
1/31/2011 2:00	3	26.6	0.28	95
1/31/2011 3:00	3	106.9	1.00	107
1/31/2011 4:00	3	16.3	0.42	39
1/31/2011 5:00	3	58.9	0.90	65
1/31/2011 6:00	3	27.9	1.00	28
2/1/2011 3:00	3	17.9	0.28	64
2/1/2011 4:00	3	6.5	1.00	7
2/4/2011 3:00	3	23.9	0.28	85
2/4/2011 4:00	3	5.2	1.00	5
2/6/2011 14:00	3	70.8	0.78	91
2/6/2011 15:00	3	8.9	1.00	9
2/10/2011 2:00	3	98.6	0.85	116
2/13/2011 22:00	3	93.1	0.78	119
2/13/2011 23:00	3	68.1	1.00	68
2/14/2011 0:00	3	31.9	1.00	32
2/14/2011 1:00	3	44.5	1.00	45
2/14/2011 2:00	3	10.2	1.00	10
2/15/2011 4:00	3	23.2	0.28	83
2/15/2011 5:00	3	4.9	1.00	5
2/16/2011 4:00	3	12.4	0.23	54
2/16/2011 5:00	3	8.9	1.00	9
2/22/2011 4:00	3	5.7	0.13	44
2/22/2011 5:00	3	15.8	1.00	16
2/23/2011 4:00	3	20.3	0.32	63
2/23/2011 5:00	3	4.9	1.00	5
2/24/2011 5:00	3	22.3	0.42	53
2/24/2011 6:00	3	4.7	1.00	5
2/25/2011 5:00	3	21.1	0.35	60
2/25/2011 6:00	3	5.1	1.00	5
3/5/2011 6:00	3	114.7	0.87	132
3/5/2011 7:00	3	59.5	1.00	60
3/5/2011 8:00	3	48.7	1.00	49
3/5/2011 9:00	3	37.8	1.00	38
3/11/2011 3:00	3	76.6	0.68	113
3/11/2011 4:00	3	73.4	1.00	73
3/11/2011 5:00	3	31.0	1.00	31
3/11/2011 6:00	3	40.4	1.00	40
3/11/2011 7:00	3	16.6	1.00	17
3/26/2011 15:00	3	68.8	0.80	86
3/26/2011 16:00	3	12.2	1.00	12
3/27/2011 13:00	3	31.7	0.60	53
3/28/2011 6:00	3	11.2	0.60	19

4/6/2011 7:00	3	33.7	0.43	78
4/6/2011 8:00	3	103.1	1.00	103
4/6/2011 9:00	3	22.0	1.00	22
4/6/2011 10:00	3	23.3	1.00	23
4/6/2011 11:00	3	23.6	1.00	24
4/15/2011 2:00	3	31.7	0.43	74
4/15/2011 3:00	3	27.8	1.00	28
4/16/2011 9:00	3	33.4	0.80	42
4/17/2011 9:00	3	28.9	0.87	33
4/21/2011 5:00	3	10.8	0.78	14
4/22/2011 4:00	3	10.5	0.80	13
4/25/2011 3:00	3	44.4	0.73	61
4/25/2011 4:00	3	5.3	1.00	5
4/28/2011 3:00	3	20.6	0.25	82
4/28/2011 4:00	3	13.0	1.00	13
5/1/2011 9:00	3	67.3	0.92	73
5/2/2011 3:00	3	23.9	0.47	51
5/2/2011 4:00	3	5.2	1.00	5
5/6/2011 4:00	3	1.3	0.07	19
5/6/2011 5:00	3	22.8	1.00	23
5/6/2011 6:00	3	19.2	1.00	19
5/21/2011 13:00	3	43.8	0.68	64
5/21/2011 14:00	3	19.1	1.00	19
5/22/2011 5:00	3	22.6	0.32	71
5/22/2011 6:00	3	14.0	1.00	14
5/23/2011 8:00	3	29.8	0.85	35
5/24/2011 5:00	3	22.1	0.65	34
5/25/2011 4:00	3	18.1	0.82	22
5/26/2011 5:00	3	19.4	0.80	24
5/28/2011 21:00	3	0.4	0.03	13
5/31/2011 6:00	3	2.0	0.05	40
5/31/2011 7:00	3	55.7	1.00	56
6/1/2011 6:00	3	24.2	0.87	28
6/2/2011 5:00	3	22.8	0.80	29
6/5/2011 6:00	3	16.4	0.75	22
6/7/2011 6:00	3	17.4	0.82	21
6/9/2011 4:00	3	14.4	0.80	18
6/12/2011 11:00	3	49.3	0.83	59
6/13/2011 3:00	3	12.5	0.80	16
6/23/2011 7:00	3	26.7	0.83	32
6/28/2011 5:00	3	17.4	0.77	23
6/29/2011 6:00	3	13.5	0.82	16
6/30/2011 4:00	3	18.4	0.82	22
7/1/2011 3:00	3	18.4	0.30	61
7/1/2011 4:00	3	5.8	1.00	6
7/2/2011 6:00	3	16.7	0.27	62
7/2/2011 7:00	3	6.6	1.00	7

7/3/2011 9:00	3	17.2	0.78	22
7/4/2011 8:00	3	21.1	0.38	56
7/4/2011 9:00	3	6.3	1.00	6
7/6/2011 4:00	3	17.2	0.30	57
7/6/2011 5:00	3	8.2	1.00	8
7/7/2011 4:00	3	15.6	0.32	49
7/7/2011 5:00	3	5.2	1.00	5
7/8/2011 6:00	3	14.0	0.32	44
7/8/2011 7:00	3	6.6	1.00	7
7/9/2011 7:00	3	11.7	0.22	53
7/9/2011 8:00	3	13.0	1.00	13
7/10/2011 6:00	3	14.7	0.80	18
7/11/2011 5:00	3	17.7	0.80	22
7/12/2011 3:00	3	9.4	0.20	47
7/12/2011 4:00	3	5.7	1.00	6
7/13/2011 5:00	3	16.5	0.78	21
7/14/2011 3:00	3	13.0	0.80	16
7/15/2011 4:00	3	18.6	0.62	30
7/16/2011 7:00	3	16.0	0.80	20
7/17/2011 10:00	3	12.1	0.22	55
7/17/2011 11:00	3	8.5	1.00	9
7/18/2011 4:00	3	24.2	0.93	26
7/19/2011 5:00	3	9.5	0.18	53
7/19/2011 6:00	3	8.0	1.00	8
7/20/2011 6:00	3	17.9	0.78	23
7/21/2011 3:00	3	14.2	0.22	65
7/21/2011 4:00	3	5.1	1.00	5
7/22/2011 7:00	3	19.8	0.88	23
7/23/2011 12:00	3	23.6	0.80	30
7/24/2011 9:00	3	20.8	0.55	38
7/25/2011 5:00	3	13.1	0.78	17
7/26/2011 10:00	3	21.2	0.50	42
7/26/2011 11:00	3	3.7	1.00	4
7/27/2011 5:00	3	9.6	0.80	12
8/14/2011 8:00	3	61.0	0.93	66
8/14/2011 9:00	3	5.9	1.00	6
8/30/2011 8:00	3	20.3	0.82	25
9/1/2011 5:00	3	15.7	0.25	63
9/1/2011 6:00	3	13.6	1.00	14
9/2/2011 4:00	3	18.7	0.30	62
9/2/2011 5:00	3	7.2	1.00	7
9/4/2011 7:00	3	18.8	0.70	27
9/5/2011 10:00	3	34.8	0.83	42
9/5/2011 11:00	3	8.7	1.00	9
9/6/2011 7:00	3	17.4	0.80	22
9/7/2011 7:00	3	26.3	0.78	34
9/8/2011 20:00	3	20.3	0.22	92

9/10/2011 5:00	3	76.7	0.98	78
9/10/2011 6:00	3	8.7	1.00	9
9/11/2011 7:00	3	18.8	0.30	63
9/11/2011 8:00	3	5.8	1.00	6
9/13/2011 9:00	3	20.6	0.73	28
9/15/2011 6:00	3	19.0	0.33	58
9/15/2011 7:00	3	5.6	1.00	6
9/17/2011 3:00	3	57.4	0.62	93
9/17/2011 4:00	3	14.2	1.00	14
9/20/2011 4:00	3	21.3	0.37	58
9/20/2011 5:00	3	6.6	1.00	7
9/22/2011 4:00	3	18.1	0.65	28
9/26/2011 6:00	3	0.3	0.02	15
9/26/2011 7:00	3	51.1	1.00	51
9/27/2011 5:00	3	20.2	0.80	25
10/2/2011 9:00	3	24.6	0.80	31
10/4/2011 5:00	3	18.6	0.80	23
10/8/2011 14:00	3	32.6	0.32	102
10/8/2011 15:00	3	41.8	1.00	42
10/9/2011 14:00	3	22.6	0.30	75
10/9/2011 15:00	3	10.8	1.00	11
10/13/2011 5:00	3	28.2	0.83	34
10/14/2011 7:00	3	24.3	0.82	30
10/17/2011 3:00	3	71.9	0.78	92
10/17/2011 4:00	3	4.4	1.00	4
10/23/2011 9:00	3	19.0	0.82	23
10/30/2011 15:00	3	30.5	0.87	35
10/31/2011 12:00	3	29.4	0.77	38
11/3/2011 7:00	3	0.4	0.05	8
11/3/2011 8:00	3	24.5	1.00	25
11/5/2011 7:00	3	24.3	0.80	30
11/6/2011 14:00	3	27.3	0.83	33
11/10/2011 12:00	3	43.3	0.40	108
11/10/2011 13:00	3	33.1	1.00	33
11/13/2011 5:00	3	31.6	0.93	34
11/18/2011 13:00	3	33.9	0.82	41
11/19/2011 11:00	3	0.5	0.05	10
11/19/2011 12:00	3	25.0	1.00	25
11/28/2011 13:00	3	26.7	0.83	32
12/2/2011 16:00	3	32.2	0.68	47
12/5/2011 15:00	3	34.8	0.95	37
12/10/2011 16:00	3	43.2	0.83	52
12/12/2011 13:00	3	31.4	0.78	40
12/14/2011 5:00	3	21.7	0.77	28
12/15/2011 6:00	3	22.1	0.80	28
12/26/2011 2:00	3	39.0	0.37	105
12/26/2011 3:00	3	117.0	1.00	117

12/26/2011 4:00	3	48.9	1.00	49
12/26/2011 5:00	3	41.7	1.00	42
12/26/2011 6:00	3	6.5	1.00	7
12/27/2011 3:00	3	25.2	0.32	79
12/27/2011 4:00	3	4.8	1.00	5
12/28/2011 4:00	3	25.3	0.63	40

Turbine 2

CeDAR 1-Hour Data

Data for 1/1/2012 thru 12/31/2012

Timestamp	Process Code	60-NOx lbs 1-Hr	CT Gas On-Time	NOx lbs/hr
1/1/2012 10:00	3	73.7	0.72	102
1/1/2012 11:00	3	75.1	1.00	75
1/1/2012 12:00	3	41.2	1.00	41
1/1/2012 13:00	3	28.8	1.00	29
1/9/2012 7:00	3	7.2	0.10	72
1/9/2012 8:00	3	65.6	1.00	66
3/30/2012 15:00	3	11.5	0.23	50
3/30/2012 16:00	3	109.2	1.00	109
3/30/2012 17:00	3	23.8	1.00	24
3/30/2012 18:00	3	23.4	1.00	23
3/30/2012 19:00	3	20.9	0.93	22
4/1/2012 15:00	3	9.6	0.15	64
4/1/2012 16:00	3	47.0	1.00	47
4/2/2012 7:00	3	5.3	0.33	16
4/2/2012 8:00	3	4.5	1.00	5
4/3/2012 4:00	3	5.7	0.78	7
4/3/2012 8:00	3	6.9	0.48	14
6/11/2012 11:00	3	36.6	0.52	70
6/11/2012 12:00	3	78.4	1.00	78
6/11/2012 13:00	3	28.1	1.00	28
6/11/2012 14:00	3	20.8	1.00	21
6/12/2012 3:00	3	28.9	0.58	50
6/12/2012 4:00	3	5.0	1.00	5
6/13/2012 3:00	3	17.8	0.35	51
6/14/2012 5:00	3	5.4	0.93	6
6/26/2012 6:00	3	25.0	0.68	37
6/27/2012 7:00	3	18.9	0.83	23
6/28/2012 6:00	3	16.0	0.35	46
6/29/2012 6:00	3	19.6	0.35	56
6/29/2012 7:00	3	4.9	1.00	5
6/30/2012 8:00	3	24.5	0.80	31
7/1/2012 9:00	3	25.0	0.78	32
7/2/2012 8:00	3	22.4	0.93	24
7/3/2012 8:00	3	26.9	0.83	32
7/4/2012 9:00	3	25.7	0.85	30
7/5/2012 6:00	3	21.9	0.62	35
7/6/2012 5:00	3	0.5	0.05	10
7/6/2012 6:00	3	32.1	1.00	32
7/6/2012 7:00	3	19.9	1.00	20
7/7/2012 7:00	3	24.5	0.90	27
7/8/2012 8:00	3	0.2	0.05	4
7/8/2012 9:00	3	23.9	1.00	24

7/18/2012 8:00	3	19.8	0.85	23
7/19/2012 6:00	3	28.8	0.35	82
7/19/2012 7:00	3	10.2	1.00	10
7/20/2012 5:00	3	1.8	0.08	23
7/20/2012 6:00	3	19.3	1.00	19
7/24/2012 6:00	3	6.8	0.15	45
7/24/2012 7:00	3	13.6	1.00	14
7/25/2012 6:00	3	0.9	0.07	13
7/25/2012 7:00	3	21.1	1.00	21
7/26/2012 6:00	3	22.3	0.35	64
7/26/2012 7:00	3	4.8	1.00	5
7/27/2012 7:00	3	16.7	0.35	48
7/27/2012 8:00	3	5.9	1.00	6
7/28/2012 7:00	3	16.0	0.58	28
7/29/2012 7:00	3	0.4	0.05	8
7/29/2012 8:00	3	23.3	1.00	23
7/30/2012 6:00	3	23.8	0.87	27
8/1/2012 1:00	3	4.8	0.55	9
8/4/2012 7:00	3	14.7	0.42	35
8/19/2012 5:00	3	59.7	0.78	77
8/19/2012 6:00	3	7.5	1.00	8
8/27/2012 3:00	3	13.2	0.18	73
8/27/2012 4:00	3	43.1	1.00	43
9/29/2012 15:00	3	17.5	0.25	70
9/29/2012 16:00	3	61.2	1.00	61
9/30/2012 6:00	3	18.7	0.83	23
10/3/2012 5:00	3	17.9	0.80	22
12/6/2012 6:00	3	13.0	0.83	16
12/24/2012 15:00	3	32.6	1.00	33
12/25/2012 20:00	3	33.2	0.60	55
12/25/2012 21:00	3	8.5	1.00	9

Turbine 2

CeDAR 1-Hour Data

Data for 1/1/2013 thru 12/31/2013

Timestamp	Process Code	NOx lbs 1-Hr	CT Gas On-Time	NOx lbs/hr
1/28/2013 7:00	3	13.9	0.60	23
2/10/2013 18:00	3	32.5	0.32	102
2/10/2013 19:00	3	25.6	1.00	26
4/21/2013 14:00	3	0.7	0.03	23
4/21/2013 15:00	3	26.2	0.38	69
4/22/2013 11:00	3	19.3	0.23	84
4/22/2013 12:00	3	51.6	1.00	52
4/22/2013 13:00	3	4.5	1.00	5
4/23/2013 4:00	3	22.3	0.82	27
5/6/2013 5:00	3	67.8	0.92	74
5/6/2013 6:00	3	4.3	1.00	4
5/9/2013 4:00	3	7.2	0.20	36
5/9/2013 5:00	3	6.3	1.00	6
5/10/2013 5:00	3	16.0	0.72	22
5/11/2013 6:00	3	13.8	0.68	20
5/12/2013 7:00	3	21.0	0.93	23
5/13/2013 5:00	3	13.6	0.70	19
5/27/2013 9:00	3	4.0	0.07	57
5/27/2013 10:00	3	112.9	1.00	113
5/27/2013 11:00	3	4.7	1.00	5
6/8/2013 6:00	3	15.0	0.25	60
6/8/2013 7:00	3	6.2	1.00	6
6/9/2013 7:00	3	24.1	0.52	46
6/9/2013 8:00	3	5.5	1.00	6
6/15/2013 7:00	3	24.2	0.42	58
6/15/2013 8:00	3	7.9	1.00	8
6/17/2013 4:00	3	0.6	0.02	30
6/17/2013 5:00	3	54.7	1.00	55
6/19/2013 7:00	3	14.5	0.72	20
6/23/2013 13:00	3	25.1	0.85	30
7/7/2013 7:00	3	19.7	0.33	60
7/7/2013 8:00	3	6.1	1.00	6
8/19/2013 2:00	3	8.4	0.12	70
8/19/2013 3:00	3	41.3	1.00	41
8/28/2013 4:00	3	13.8	0.95	15
9/12/2013 3:00	3	72.4	0.92	79
9/12/2013 4:00	3	27.3	1.00	27
11/17/2013 23:00	3	35.7	0.37	96
11/18/2013 0:00	3	36.8	1.00	37
11/19/2013 10:00	3	35.4	0.83	43
11/19/2013 11:00	3	5.8	1.00	6
12/1/2013 15:00	3	30.2	0.83	36

