

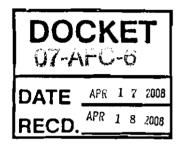
980 Ninth Street, Suite 1900 Sacramento, California 95814 main 916.447,0700 fax 916.447,4781 www.stoel.com

April 17, 2008

KIMBERLY HELLWIG Direct (916) 319-4742 kjhellwig@stoel.com

VIA EMAIL AND HAND DELIVERY

Mr. Michael Monasmith Siting Project Manager California Energy Commission 1516 Ninth Street Sacramento, CA 95814



Re: Carlsbad Energy Center Project (07-AFC-6)

Emissions Baseline Calculations for the Existing Boiler Units Submitted to San Diego Air Pollution Control District

Dear Mr. Monasmith:

On behalf of Carlsbad Energy Center LLC, please find enclosed the requisite number of copies for docketing Sierra Research's letter to the San Diego Air Pollution Control District regarding the revised emissions baseline calculations for the existing boiler Units 1, 2, and 3 at the Encina Power Station.

Should you have any question or concerns, please do not hesitate to contact me directly at the number above.

Respectfully submitted,

Stoel Rives LLP

imberly Hellwig

Paralegal

KJH:kjh Enclosure

cc: See Proof of Service (Rev. 03/19/2008; electronic service only)

April 17, 2008

Dr. Steve Moore
Engineering Group
San Diego Air Pollution Control District
10124 Old Grove Road
San Diego, CA 92131



1801 J Street Sacramento, CA 95814 Tel: (916) 444-6666 Fax: (916) 444-8373

Ann Arbor, MI Tel: (734) 761-6666 Fax: (734) 761-6755

Subject:

Application for Authority To Construct for the Proposed Carlsbad Energy

Center Project

Dear Dr. Moore:

On behalf of Carlsbad Energy Center LLC, we are pleased to submit the enclosed revised emissions baseline calculations for the existing boiler Units 1, 2, and 3 at the Encina Power Station. The emission baseline for these units was revised to be a 5-year average for the period from 2002 to 2006 based on discussions during the most recent California Energy Commission public workshop for the proposed Carlsbad Energy Center Project (CECP) which was held on March 26, 2008. In addition, the revised baseline emissions were adjusted to reflect SDAPCD Rule 69 NOx emissions limits during the baseline period when the existing units were not equipped with SCR systems. The SCR systems on the existing Units 1, 2, and 3 were installed on July 1, 2003, May 1, 2003, and February 28, 2003, respectively. Consequently, it was necessary to correct the NOx emissions during all of 2002 for the three existing units. For 2003, the existing units were not operated prior to the SCR installation dates so there was no need to perform a Rule 69 adjustment for 2003. The detailed revised emission baseline calculations are enclosed for your review.

If you have any questions regarding this application package, please contact me at (916) 444-6666.

Sincerely,

Tom Andrews
Senior Engineer

Enclosure

cc: Tim Hemig, Carlsbad Energy Center LLC
George L. Piantka, Carlsbad Energy Center LLC
John McKinsey, Stoel
Will Walters, CEC
Michael Monasmith, CEC
CEC Dockets Office (07-AFC-6)

Table 5.1B-12 (Revised 4/15/08)
Actual Annual Emissions For Units 1, 2, and 3*
Encina Power Station

		Total Emi	ssions in ton	s/year		
		•	Repo	orted Emiss	sions	
Years	Units	NOx	CO	VOC	PM	SOx
	1	11.3	138.6	4.5	9.6	0.5
2002	2	14.5	174.6	5.8	13.2	8.4
	3	14.6	181. 3	5.9	12.6	0.6
	1	12.1	57.0	3.8	7.5	4.5
2003	2	14.0	70.6	4.7	8.3	3.1
	3	20.1	100.4	6.7	12.2	4.9
	1	12.5	82.4	5.4	9.9	0.6
2004	2	15.9	105.2	6.9	14.9	8.0
	3	24.8	163.4	10.7	19.3	1.2
	1	10.8	73.6	4.9	9.6	0.6
2005	2	11.7	79.9	5.3	11.9	0.7
	3	12.7	87.6	5.8	11.7	0.7
	1	3.4	12.2	1.6	3.2	0.2
2006	2	6.7	68.9	3.0	6.9	1.1
	3	8.1	28.9	3.7	7.5	1.4

Notes:

Table 5.1B-13 (Revised 4/15/08) 5-Year Average Baseline Emissions For Units 1, 2, and 3 Encina Power Station

		Total Emi	ssions in tor	ns/year					
			Rep	orted Emiss	sions				
Years	Units	NOx	CO	VOC	PM	SOx			
5-Year 1 10.0 72.8 4.0 8.0 1.3									
Lookback 5-	2	12.6	99.8	5.1	11.0	2.8			
Year Average	3	16.1	112.3	6.6	12.7	1.8			
Total =		38.6	284.9	15.7	31.6	5.8			

^{*} Based on SDAPCD annual inventory reports for the Encina Power Station with the exception of NOx emissions during 2002 which have been Rule 69 corrected.

	Emissic	Emission Factors (lbs.	:/million ft3 fo	or gas & lbs./	1000 gal. for	for oil) - Annual Ir	Inventory Report	ort			
	#1 Nat. Gas #1 Res. Oil	oil #2 Nat. Gas	#2 Res. Oil	#3 Nat. Gas	#3 Res. Oil	#4 Nat. Gas	#4 Res. Oil	#5 Nat. Gas	#5 Res. Oil	GT Nat. Gas	GT Diesel
00	41.7	126	5	43.4	5	36.7	5	21.5	5	30.6	10.6
NOX	11.6	11.6	32	11.6	32	11.6	32	11.6	32	116	33.4
PM10	10.8	12.4	5	11.1	10	10.4	5	8.88	6	6.73	1.6
ROG	5.5	5.5	0.93	5,5	0.93	5.5	0.93	5.5	0.93	2.14	90.0
SOx	9:0	9.0	71	9.0	7	9.0	7.1	9.0	71	9.0	7.1
106		F	1.04	1	1.04	11	1.04	1	<u>1</u> .8	11.2	0.56
TSP	10.8	12.4	10	11.1	10	10.4	10	8.88	10	6.73	1.67

		Elicina ruel zooo	21 2000			
Fuel Types	Boiler #1	Boiler #2	Boiler #2 Boiler #3	Boiler #4	Boiler #5	Gas Turbine
Residual Oil (gallons)	0	20412	27636	73500	54600	
Nat. Gas (million ft3)	583.5	1093.3	1326.9	5894.9	6294.7	16.9
Diesel (gallons)						509.8
Gasoline? (gallons)						
Fuel Sulfur Content (Wt. %)		.25 (Oil)	.25 (Oil)	.25 (Oil)	.25 (Oil)	.05 (Diesel)

				Emissic	on Amounts 20	006 (calculate	q)					
1	#1 Nat. Gas	#1 Res. Oil #2 Na	#2 Nat. Gas	#2 Res. Oil	#3 Nat. Gas	#3 Res. Oil	#4 Nat. Gas	#4 Res. Oil	#5 Nat. Gas	#5 Res. Oil	GT Nat. Gas	GT Diese
1	2.1660	0.0000	68.8779	0.0510	28.7937	0.0691	108.1714	0.1838	67.6680	0.1365	0.2586	0.0027
က	.3843	0.0000	6.3411	0.3266	7.6960	0.4422	34.1904	1.1760	36.5093	0.8736	0.9802	0.0085
m	1509	0.0000	6.7785	0.1021	7.3643	0.1382	30.6535	0.3675	27.9485	0.2730	0.0569	0.0004
-	.6046	0.0000	3.0066	0.0095	3.6490	0.0129	16.2110	0.0342	17.3104	0.0254	0.0181	0.000.0
0	.1751	0.000	0.3280	0.7246	0.3981	0.9811	1.7685	2.6093	1.8884	1.9383	0.0051	0.0018
<u>ო</u>	3.2093	0.0000	6.0132	0.0106	7.2980	0.0144	32.4220	0.0382	34.6209	0.0284	0.0946	0.0001
_	3.1509	0.0000	6.7785	0.1021	7.3643	0.1382	30.6535	0.3675	27.9485	0.2730	0.0569	0.0004

				Emission	1 Amounts 200	05 - Annual In	ventory Report			
(tons)	#1 Nat. Gas	#1 Res. Oil	#2 Nat. Gas	#2 Res. Oil	#3 Nat. Gas	#3 Res. Oil	#4 Nat. Gas #4 Res.	Oil #5 Nat. Gas #5 Res.	Oil GT Nat. Gas GT Diesel	Total
00	73.5	0.1	79.8	0.1	87.5	0.1	384.1	268.7	0.1	894
NOX	10.2	9.0	11.1	9.0	12.1	9.0	53.2	37.2	0.5	126.1
PM10	9.5	1.0	11.8	0.1	11.6	0.1	47.7	28.4	0.1	109.4
Rog	4 .8	0.1	5.2	0.1	5.7	0.1	25.1	17.6	0.1	58.8
SOx	0.5	0.1	9.0	1.0	9.0	0.1	2.7	1.9	0.1	6.7
T0G	9.6	0.1	10.5	0.1	11.5	0.1	50.3	35.2	0.1	117.5
TSP	9.5	0.1	11.8	0.1	11.6	0.1	47.7	28.4	0.1	109.4

		Emission		s./million ft3 1	for gas & lbs./	1000 gal. for	r Factors (lbs./million fl3 for gas & lbs./ 1000 gal. for oil) - Annual Inventory Report	entory Report			
	#1 Nat. G	as #1 Res. Oil	#2 Nat. Gas	#2 Nat. Gas #2 Res. Oif #3 Nat. (#3 Nat. Gas	#3 Res. Oil	#4 Nat. Gas ;	#4 Res. Oil #5 Na	at. Gas #5 Res. O	es. Oil GT Nat. Gas GT Di	GT Diesel
00	84	2	84	5	84	5	84	3	74	30.6	
NOX	11.6	29	11.6	49	11.6	49	11.6	-	11.6	119	
PM10	10.8	7	12.4	7	11.1	7	10.4	æ	88	6.73	
ROG	5.5	0.76	5.5	0.76	5.5	0.76	5.5	43	5.5	2.14	
SOx	9.0	7	9.0	7	9.0	7	9.0	0	9.0	9.0	
106	=	1.04	=	1.04	1	1.04	7	-	11	11.2	
TSP	10.8	7	12.4	7	11.1	7	10.4	8.	8.88	6.73	

		Encina Fuel 2005	el 2005			
Fuel Types	Boiler #1	Boiler #2	Boiler #3	Boiler #4	Boiler #5	Gas Turbine
Residual Oil (gallons)	19320	19320	18060			
Nat. Gas (million ft3)	1750.42	1900.231	2083.49	9144.569	6397.681	8.9213
Diesel (gallons)						
Gasoline? (gallons)						
Fuel Sulfur Content (Wt. %)	0.25	0.25	0.25			

2004 Operating Year

	Total	1456.6	224.1	168.9	92.6	10.7	191.1	168.9
	GT Diesel	0.1	4.0	0.1	0.1	0.1	0.1	0.1
	#5 Res. Oil GT Nat. Gas	9.0	3.1	0.2	0.1	0.1	0.3	0.2
	ii #5 Nat.Gas #5 R	533.8	80.9	75	35	3.8	6.69	54
ventory Report	#4 Nat. Gas #4 Res. O	570.9	86.5	70.5	37.4	4.1	74.8	70.5
mission Amounts 2004 - Annual In	#3 Nat. Gas #3 Res. Oil	163.4	24.8	19.3	10.7	1.2	21.4	19.3
Emissi	#1 Res. Oil #2 Nat. Gas #2 Res. Oil	105.2	15.9	14.9	6.9	0.8	13.8	14.9
	#1 Nat. Gas #1 Res. (82.4	12.5	6.6	5.4	9.0	10.8	9.9
	(tons)	00	NOX	PM10	ROG	SOx	106	TSP

		Emission Factors (Ibs	/million ft3 for gas & lbs./	ı Factors (İbs./million ft3 for gas & Ibs./ 1000 gal. for oil) - Annual Inventory Report	wentory Report		
	#1 Nat. Gas #1 Res. Oil #	les. Oil #2 Nat. Gas	#2 Res. Oil #3 Nat. Gas	2 Nat. Gas #2 Res. Oil #3 Nat. Gas #3 Res. Oil #4 Nat. Gas	#4 Res. Oil #5 Nat. G	#4 Res. Oil #5 Nat. Gas #5 Res. Oil GT Nat. Gas	GT Diesel
03	84	84	84	84	84	30.6	10.6
NOx	12.7	12.7	12.7	12.7	12.7	123	27.5
PM10	10.1	11.9	9.93	10.4	8.49	6.73	1.6
ROG	5.5	5.5	5.5	5.5	5.5	2.14	90.0
SOx	9.0	9.0	9.0	9.0	9.0	9.0	7.1
T0G	=	7	1	11	1	11.2	0.56
TSP	10.1	11.9	6.93	10.4	8.49	6.73	1.67

		Encina Fuel 2004	el 2004			
Fuel Types	Boiler #1	Boiler #2		Boiler#3 Boiler#4		Boiler #5 Gas Turbine
Residual Oil (gallons)						
Nat. Gas (million ft3)	1962.6472	2504.1734	1962.6472 2504.1734 3890.6812	13593.06	13593.06 12710.5447	49.8023
Diesel (gallons)						28152
Gasoline? (gallons)						
Fuel Sulfur Content (Wt. %)						0.05

2003 Operating Year

				Emission	Amounts 200	3 - Annual In	ventory Repor	1				
(tons)	#1 Nat. Gas	#1 Res. Oil	#2 Nat. Gas	#2 Res. Oil	#3 Nat. Gas	#3 Res. Oil	#4 Nat. Gas	#4 Res. Oil #5 Nat. G	as #5 Res. Oil	GT Nat. Gas (GT Diesel	Total
00	56.7	0.3	70.4	0.2	100.1	0.3	416.6	481		9.0	0.1	1126.3
Ŏ	10.3	1.8	12.8	1.2	18.2	1.9	7.5.7	87.4		2.3	0.1	211.7
PM10	6.9	9.0	7.9	0.4	11.6	9.0	53.5	46.7		0.1	0.1	128.4
Rog	3.7	0.1	4.6	0.1	9.9	0.1	27.3	31.5		0.1	0.1	74.2
Š	9.0	4.1	0.5	2.6	0.7	4.2	ო	3.4		0.1	0.1	19.1
106	7.4	0.1	9.2	0.1	13.1	0.1	54.6	63		0.2	0.1	147.9
TSP	6.9	9.0	7.9	0.4	11.6	9.0	53.5	46.7		0.1	0.1	128,4

		Emiss	tion Factors (II	bs./million ft3 f	or gas & lbs./	1000 gal, for (Emission Factors (lbs./million ft3 for gas & lbs./ 1000 gal. for oil) - Annual Inventory Report	rentory Report				
	#1 Nat. Gas	#1 Res. Oil	#2 Nat. Gas	#2 Res. Oil	#3 Nat. Gas	#3 Res. Oil	#4 Nat. Gas #4 Res. Oil #5 Nat. Gas #5 Res. Oil GT Nat. Gas GT Diesel	#4 Res. Oil	#5 Nat. Gas	#5 Res. Oil	GT Nat. Gas	GT Diesel
8	84	5	84	2	84	5	84		84		30.6	10.6
NOX	15.3	32	15.3	32	15.3	32	15.3		15.3		126	27.5
PM10	10.3	10	9.44	10	9.75	10	10.8		8.16		6.73	9.1
ROG	5.5	0.93	5.5	0.93	5.5	0.93	5.5		5.5		2.14	90.0
SOx	9.0	71	9.0	71	9.0	71	9.0		9.0		9.0	7.1
106	£	1.04	11	1.04	11	1.04	1		1		11.2	26
TSP	10.3	10	9.44	10	9.75	10	10.8		8.16		6.73	1.67

		Encina Fuel 2003	el 2003			
Fuel Types	Boiler #1	Boiler #2	Boiler #3	Boiler #3 Boiler #4	1	Boiler #5 Gas Turbine
Residual Oil (gallons)	115290	74466	117600			
Nat. Gas (million ft3)	1349.623	1675.005	2383.753	9919.283	9919,283 11452,104	36.0149
Diesel (gallons)						410
Gasoline? (gallons)						
Fuel Sulfur Content (Wt. %)	0.25	0.25	0.25			0.05

Gas #1 Res. Oil #2 Nat. Gas #2 Res. Oil #3 Nat. Gas #3 Nat. Gas #4 Nat. Gas #4 Res. Oil #5 Nat. Gas 5 174.1 0.5 181.3 802.7 1.8 920.5 14.0 0.6 14.6 90.1 11.8 103.3 12.1 1.1 12.6 55.6 2.6 63.7 5.7 0.1 5.9 26.1 0.3 30 0.6 7.8 0.6 2.8 2.6 3.3 11.3 0.1 11.8 65.2 0.4 59.9				Emissi	Emission Amounts 2002 - Annual	002 - Annual Inventory Report	Ť					
138.6 174.1 0.5 181.3 802.7 1.8 11.3 14.0 0.6 14.6 90.1 11.8 9.6 12.1 1.1 12.6 55.6 2.6 4.5 5.7 0.1 5.9 26.1 0.3 0.5 0.6 7.8 0.6 2.8 2.6 9 11.3 0.1 11.8 52.2 0.4	(tons)	#1 Nat. Gas #1 Ri	es. Oil #2 Nat. Gas	ē		#3 Res. Oil #4 Nat. Gas	#4 Res. Oil	#5 Nat. Gas	#5 Res. Oil GT Nat. Gas	3T Nat. Gas	GT Diesel	Total
11.3 14.0 0.6 14.6 90.1 11.8 90.1 11.8 90.1 11.8 90.1 11.8 90.1 11.8 90.1 11.8 90.1 11.8 90.1 11.8 90.1 11.8 90.1 11.8 90.1 11.8 90.4 90.4 90.4 90.4 90.4 90.4 90.4 90.4	03	138.6	174.1	0.5	181.3	802.7	1.8	920.5	1.6	6.3	0.1	2221.5
9.6 12.1 1.1 12.6 55.6 2.6 4.5 5.7 0.1 5.9 26.1 0.3 0.5 0.6 7.8 0.6 2.8 2.6 9 11.3 0.1 11.8 52.2 0.4	NOx	11.3	14.0	9.0	14.6	90.1	11.8	103.3	10.4	1.1	0.4	257.5
4.5 5.7 0.1 5.9 28.1 0.3 0.5 0.6 7.8 0.6 2.8 2.6 9 11.3 0.1 11.8 52.2 0.4	PM10	9.6	12.1	1.1	12.6	55.6	2.6	63.7	2.3	0.1	0.1	159.8
0.5 0.6 7.8 0.6 2.8 2.6 9 11.3 0.1 11.8 52.2 0.4	ROG	5.4	5.7	0.1	5.9	26.1	0.3	8	0.2	0.1	0.1	73
9 11.3 0.1 11.8 52.2 0.4	SOx	0.5	0.6	7.8	9.0	2.8	2.6	3.3	2.3	0.1	0.1	20.7
	T0G	6	11.3	0.1	11.8	52.2	4.0	59.9	0.3	0.1	1.0	145.2
9.6 12.7 1.1 12.6 55.8 2.6	TSP	9.6	12.7	1.1	12.6	55.6	2.6	63.7	2.3	0.1	0.1	160.4

		Emission Factors	(lbs./million ft;	3 for gas & lbs	Emission Factors (Ibs./million ft3 for gas & Ibs./ 1000 gal. for oil) - Annual Inventory Report	Annual In	ventory Report				•
	#1 Nat. Gas #1 Res.	Res. Oil #2 Nat. Gas	#2 Res. Oil	#3 Nat. Gas	#3 Res. Oil #4 Nat.	at. Gas	#4 Res. Oil	#5 Nat. Gas	#5 Res. Oil	#5 Nat. Gas #5 Res. Oil GT Nat. Gas	GT Diesel
00	169	169	5	169	1	69	5	169	2	30.6	10.6
XON	19	19	32	19		19	32	19	32	112	33.4
NOx*	0.15	0.15	4 .0	0.15							
PM10	11.7	11.7	9	11.7	-	11.7	7	11.7	7	6.73	1.6
ROG	5.5	5.5	0.93	5.5	40	5.5	0.76	5.5	0.76	2.14	90.0
SOx	9.0	9.0	71	9.0		9.0	7	9.0	7	9.0	7.1
706	<u>_</u>	=	1.04	7		=	1.04		1.04	11.2	99
TSP	11.7	11.7	10	11.7	-	1.7	7	11.7	7	6.73	1.67

* SDAPCD Rule 69 NOx emission limit for natural gas and oil used in terms of Ibs/MW-hr.

		Encina Fuel 2002	2002			
Fuel Types	Boiler #1	Boiler #2	Boiler #3	Boiler #4	Boiler #5	Boiler #1 Boiler #2 Boiler #3 Boiler #4 Boiler #5 Gas Turbine
Residual Oil (gallons)		218991		734633.3	650229.75	
Nat. Gas (million ft3)	1639.999	2060.796	2145.807	9499.978	10893.144	18.954
Diesel (gallons)						21420
Gasoline? (gallons)						
Fuel Sulfur Content (Wt. %)		0.25		0.25	0.25	0.05

 Rule 69 Corrected NOx Emission Amounts 2002 (catculated)
 #2 Nat. Gas #1 Res. Oil #2 Nat. Gas #2 Res. Oil #3 Nat. Gas #3 Res. Oil

 NOx
 13.9636
 0.5825
 14.6116

Information Needed to Convert fron	n Rule 89 NOx	(Emission Fa	Information Needed to Convert from Rule 89 NOx Emission Factor based on Ibs/MW4-hr to Ibs/MMBtu
2004 Operating Data	Boiler#1	Boiler #2 Boiler #3	Boiler #3
MW-hr Generation	179675	226236	353242
MMBtu	1,999,937	2,551,753 3,964,604	3,964,604
MVV-hr/MMBtu	0.0898402	0.0898402 0.0886600	0.0890990

BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE STATE OF CALIFORNIA

Application for Certification for the

CARLSBAD ENERGY CENTER PROJECT

Docket No. 07-AFC-6 PROOF OF SERVICE (As of 03/19/2008)

DECLARATION OF SERVICE

I, Elizabeth Hecox, declare that on April 18, 2008, I deposited in the United States mail at Sacramento, California with first-class postage thereon fully paid and addressed to those identified below *OR* transmitted via electronic mail consistent with the requirements of the California Code of Regulations, Title 20, sections 1209, 1209.5, and 1210 the following documents:

CARLSBAD ENERGY CENTER PROJECT (07-AFC-6) EMISSIONS BASELINE CALCULATIONS FOR THE EXISTING BOILER UNITS SUBMITTED TO SAN DIEGO AIR POLLUTION CONTROL DISTRICT

CALIFORNIA ENERGY COMMISSION

Attn: Docket No. 07-AFC-6 1516 Ninth Street, MS-14 Sacramento, CA 95814-5512 docket@energy.state.ca.us

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INTERESTED AGENCIES

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INTERESTED AGENCIES CONT'D.

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INTERVENORS

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I declare under penalty of perjury that the foregoing is true and correct.

Elizabeth Hecox