



California Energy Commission  
**DOCKETED**  
**12-AFC-02**  
TN # 69415  
FEB. 06 2013

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February 6, 2013

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**VIA EMAIL**

Ms. Felicia Miller, Siting Project Manager  
California Energy Commission  
1516 Ninth Street  
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**Re: Huntington Beach Energy Center (12-AFC-02)**  
**Socioeconomics**

Dear Ms. Miller:

On behalf of Applicant AES Southland Development, LLC, please find enclosed herein for docketing Applicant's Table 5.10B-R1 related to Socioeconomics. This table relates to Staff's Data Requests, Set 1, Data Request #40 (SOCIO-40). Should you have any questions regarding the enclosed, please do not hesitate to contact Robert Mason or me.

Respectfully submitted,

A handwritten signature in blue ink that reads "Melissa A. Foster".

Melissa A. Foster

MAF:jmw

Enclosure

cc: Proof of Service



**BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT  
COMMISSION OF THE STATE OF CALIFORNIA  
1516 NINTH STREET, SACRAMENTO, CA 95814  
1-800-822-6228 – WWW.ENERGY.CA.GOV**

**APPLICATION FOR CERTIFICATION FOR THE  
HUNTINGTON BEACH ENERGY PROJECT**

**Docket No. 12-AFC-02  
PROOF OF SERVICE  
(Revised 12/24/12)**

**SERVICE LIST:**

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**COMMISSION DOCKET UNIT**

California Energy Commission –  
Docket Unit  
Attn: Docket No. 12-AFC-02  
1516 Ninth Street, MS-4  
Sacramento, CA 95814-5512  
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**OTHER ENERGY COMMISSION  
PARTICIPANTS (LISTED FOR  
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\*indicates change

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ANDREW McALLISTER  
Commissioner and Presiding Member

KAREN DOUGLAS  
Commissioner and Associate Member

Raoul Renaud  
Hearing Adviser

**OTHER ENERGY COMMISSION  
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Jennifer Nelson  
Adviser to Commissioner Douglas

Felicia Miller  
Project Manager

Kevin W. Bell  
Staff Counsel

**DECLARATION OF SERVICE**

I, Judith M. Warmuth, declare that on February 6, 2013, I served and filed copies of the attached **Applicant's Correspondence Related to Socioeconomics** dated February 6, 2013. This document is accompanied by the most recent Proof of Service list, which I copied from the web page for this project at: [http://www.energy.ca.gov/sitingcases/huntington\\_beach\\_energy/index.html](http://www.energy.ca.gov/sitingcases/huntington_beach_energy/index.html).

The document has been sent to the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, as appropriate, in the following manner:

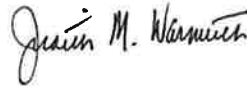
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**For service to all other parties and filing with the Docket Unit at the Energy Commission:**

- I e-mailed the document to all e-mail addresses on the Service List above and personally delivered it or deposited it in the US mail with first class postage to those parties noted above as "hard copy required"; **OR**
- Instead of e-mailing the document, I personally delivered it or deposited it in the US mail with first class postage to all of the persons on the Service List for whom a mailing address is given.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct, and that I am over the age of 18 years.

Dated: February 6, 2013



\_\_\_\_\_  
Judith M. Warmuth





TABLE 5.10B-R1  
Construction and Demolition Personnel by Month

DEMOLITION PEAKER AND TANK AREA	2018												2019											
	CRAFT	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV
Carpenters																								
Laborers																								
Teamsters																								
Electricians																								
Iron Workers																								
Millwrights																								
Boilermakers																								
Plumbers																								
Pipefitters																								
Insulation Workers																								
Operating Engineers																								
Oilers / Mechanics																								
Cement Finishers																								
Roofers																								
Sheetmetal Workers																								
Sprinkler Fitters																								
Painters																								
<b>TOTAL CRAFT LABOR</b>																								
<b>TOTAL SUPERVISION</b>																								
<b>TOTAL MANPOWER</b>																								

CONSTR 3 ON 1 UNITS GT 1/2/3 & STM TURB GEN 1 "BLOCK 1"	2018												2019											
	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC
Piling Crew																								
Carpenters	4	4	4	4	4	4																		
Laborers	4	4	4	4	4	4																		
Teamsters	4	4	4	4	4	4																		
Electricians	8	8	16	8	8	8																		
Ironworkers	6	6	6	6	6	6																		
Millwrights	4	4	4	4	4	4																		
Boilermakers	10	10	10	10	4	4																		
Plumbers	6	6	6	6	6	6																		
Pipefitters	8	8	4	4	4	4																		
Insulation workers	4	4	4	4	4	4																		
Operating Engineers	8	8	8	4	4	4																		
Oilers / Mechanics	3	3	3	2	2	2																		
Cement Finishers	2	2	2	2	2	2																		
Roofers	6	6	6	6	6	6																		
Sheetmetal Workers	8	8	8	8	8	8																		
Sprinkler Fitters																								
Painters	6	6	6	6	6	6																		
<b>TOTAL CRAFT LABOR</b>	<b>91</b>	<b>91</b>	<b>95</b>	<b>82</b>	<b>76</b>	<b>76</b>																		
<b>SUPERVISION</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>10</b>	<b>10</b>	<b>10</b>																		
<b>TOTAL MANPOWER</b>	<b>106</b>	<b>106</b>	<b>110</b>	<b>92</b>	<b>86</b>	<b>86</b>																		

CONSTR 3 ON 1 UNITS GT 4/5/6 & STM TURB GEN 2 "BLOCK 2"	2018												2019											
	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC
Piling Crew				10	10	10																		
Carpenters			4	4	8	8	12	12	12	12	12	12	12	12	20	25	25	25	25	25	25	25	25	25
Laborers			4	4	6	10	15	15	15	15	15	15	15	15	25	30	30	30	30	30	30	30	30	30
Teamsters			4	4	6	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Electricians			6	6	8	8	8	12	12	12	12	12	12	12	12	25	25	25	25	25	25	25	25	25
Ironworkers			6	6	10	10	10	10	4	4	4	4	4	6	6	12	12	12	12	12	12	12	12	12
Millwrights										4	4	4	4	6	6	6	6	6	6	6	6	6	6	6
Boilermakers										10	10	10	10	10	10	15	15	15	15	15	15	15	15	15
Plumbers			4	4	6	6	10	10	10	10	10	10	10	10	10	14	14	14	14	14	14	14	14	14
Pipefitters							6	6	6	6	8	8	8	8	8	12	12	12	12	12	12	12	12	12
Insulation workers										4	4	4	4	4	6	8	8	8	8	8	8	8	8	8
Operating Engineers			2	2	4	4	8	8	8	8	12	12	12	12	15	15	15	15	15	15	15	15	15	15
Oilers / Mechanics			2	2	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Cement Finishers			3	3	4	8	8	10	10	10	10	10	10	10	10	12	12	12	12	12	12	12	12	12
Roofers															8	8	8	8	8	8	8	8	8	8
Sheetmetal Workers														8	8	8	8	8	8	8	8	8	8	8
Sprinkler Fitters								6	6	6	6	6	6	6	8	8	8	8	8	8	8	8	8	8
Painters																					6	6	6	6
<b>TOTAL CRAFT LABOR</b>				<b>35</b>	<b>45</b>	<b>65</b>	<b>73</b>	<b>89</b>	<b>101</b>	<b>95</b>	<b>117</b>	<b>119</b>	<b>127</b>	<b>131</b>	<b>156</b>	<b>210</b>	<b>210</b>	<b>210</b>	<b>210</b>	<b>210</b>	<b>216</b>	<b>216</b>	<b>216</b>	<b>216</b>
<b>TOTAL SUPERVISION</b>			<b>2</b>	<b>4</b>	<b>4</b>	<b>6</b>	<b>10</b>	<b>10</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>25</b>	<b>20</b>	<b>20</b>	<b>15</b>	<b>15</b>
<b>TOTAL MANPOWER</b>				<b>37</b>	<b>49</b>	<b>69</b>	<b>79</b>	<b>99</b>	<b>111</b>	<b>110</b>	<b>132</b>	<b>134</b>	<b>142</b>	<b>146</b>	<b>176</b>	<b>230</b>	<b>230</b>	<b>230</b>	<b>230</b>	<b>235</b>	<b>236</b>	<b>236</b>	<b>231</b>	<b>231</b>







TABLE 5.10B-R1  
Construction and Demolition Personnel by Month

DEMOLITION UNIT 1 & 2	2020												2021												
	CRAFT	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC
Carpenters											4	4	8	10	14	20	20	20	20	20	20	20	20	20	20
Laborers											2	2	8	8	8	8	8	8	8	8	8	8	8	8	8
Teamsters																									
Electricians													2	3	3	3	3	3	3	3	3	3	3	3	3
Iron Workers														3	3	3	3	3	3	3	3	3	3	3	3
Millwrights														4	4	4	4	4	4	4	4	4	4	4	4
Boilermakers																									
Plumbers																									
Pipefitters															2	2	2								
Insulation Workers											2	2	3	3	3	3	3	3	3	3	3	3	3	3	3
Operating Engineers												2	2	2	2	2	2	2	2	2	2	2	2	2	2
Oilers / Mechanics																									
Cement Finishers																									
Roofers																									
Sheetmetal Workers																									
Sprinkler Fitters																									
Painters																									
<b>TOTAL CRAFT LABOR</b>											8	8	23	35	39	45	43	43	43	43	43	43	43	43	43
<b>TOTAL SUPERVISION</b>											5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
<b>TOTAL MANPOWER</b>											13	13	28	40	44	50	48	48	48	48	48	48	48	48	48

CONSTRUCT BLDG. 33 & 34 CONTROL BLDG AND MAINT.	2020												2021												
	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	
Piling Crew																				6	6				
Carpenters																				4	6	8	8	8	8
Laborers																				6	8	10	10	10	10
Teamsters																				2	4	4	4	4	4
Electricians																				4	4	4	4	4	4
Ironworkers																				2	4	6	6	6	6
Millwrights																									
Boilermakers																									
Plumbers																					3	3	3	3	3
Pipefitters																									
Insulation workers																									
Operating Engineers																				2	4	4	4	4	4
Oilers / Mechanics																				1	2	2	2	2	2
Cement Finishers																				2	4	6	6	6	6
Masons																									4
Sheetrockers																									
Roofers																									
Sheetmetal Workers																									
Sprinkler Fitters																									
Painters																									
I & C - Control Room																									
<b>TOTAL CRAFT LABOR</b>																				32	45	47	47	47	45
<b>TOTAL SUPERVISION</b>																				4	4	4	4	4	4
<b>TOTAL MANPOWER</b>																				36	49	51	51	51	49

TABLE 5.10B-R1  
Construction and Demolition Personnel by Month

DEMOLITION PEAKER AND TANK AREA	2022									MAN MO.	DAYS / MO.	MAN DAYS	HRS / DAY	MAN HRS
	CRAFT	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG					
Carpenters										0	23	0	10	0
Laborers										200	23	4,600	10	46,000
Teamsters										76	23	1,748	10	17,480
Electricians										0	23	0	10	0
Iron Workers										0	23	0	10	0
Millwrights										0	23	0	10	0
Boilermakers										28	23	644	10	6,440
Plumbers										0	23	0	10	0
Pipefitters										0	23	0	10	0
Insulation Workers										6	23	138	10	1,380
Operating Engineers										37	23	851	10	8,510
Oilers / Mechanics										24	23	552	10	5,520
Cement Finishers										0	23	0	10	0
Roofers										0	23	0	10	0
Sheetmetal Workers										0	23	0	10	0
Sprinkler Fitters											23		10	
Painters										0	23	0	10	0
<b>TOTAL CRAFT LABOR</b>										<b>371</b>		<b>8,533</b>	<b>10</b>	<b>85,330</b>
<b>TOTAL SUPERVISION</b>										<b>52</b>	<b>23</b>	<b>1,196</b>	<b>10</b>	<b>11,960</b>
<b>TOTAL MANPOWER</b>										<b>423</b>	<b>23</b>	<b>9,729</b>	<b>10</b>	<b>97,290</b>

CONSTR 3 ON 1 UNITS GT 1/2/3 & STM TURB GEN 1 "BLOCK 1"	2022									MAN MONTHS	DAYS / MO.	MAN DAYS	HRS / DAY	MAN HOURS
	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP					
Piling Crew										60	23	1,380	10	13,800
Carpenters										505	23	11,615	10	116,150
Laborers										598	23	13,754	10	137,540
Teamsters										280	23	6,440	10	64,400
Electricians										498	23	11,454	10	114,540
Ironworkers										444	23	10,212	10	102,120
Millwrights										174	23	4,002	10	40,020
Boilermakers										391	23	8,993	10	89,930
Plumbers										326	23	7,498	10	74,980
Pipefitters										308	23	7,084	10	70,840
Insulation workers										138	23	3,174	10	31,740
Operating Engineers										357	23	8,211	10	82,110
Oilers / Mechanics										133	23	3,059	10	30,590
Cement Finishers										250	23	5,750	10	57,500
Roofers										150	23	3,450	10	34,500
Sheetmetal Workers										210	23	4,830	10	48,300
Sprinkler Fitters										120	23	2,760	10	27,600
Painters										90	23	2,070	10	20,700
<b>TOTAL CRAFT LABOR</b>										<b>15,832</b>	<b>23</b>	<b>115,736</b>	<b>10</b>	<b>1,157,360</b>
<b>SUPERVISION</b>										<b>652</b>	<b>23</b>	<b>14,996</b>	<b>10</b>	<b>149,960</b>
<b>TOTAL MANPOWER</b>										<b>5,684</b>	<b>23</b>	<b>130,732</b>	<b>10</b>	<b>1,307,320</b>

CONSTR 3 ON 1 UNITS GT 4/5/6 & STM TURB GEN 2 "BLOCK 2"	2022									MAN MONTHS	DAYS / MO.	MAN DAYS	HRS / DAY	MAN HOURS
	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP					
Piling Crew										30				0
Carpenters										440	23	10,120	10	101,200
Laborers										535	23	12,305	10	123,050
Teamsters										200	23	4,600	10	46,000
Electricians										455	23	10,465	10	104,650
Ironworkers										250	23	5,750	10	57,500
Millwrights										114	23	2,622	10	26,220
Boilermakers										247	23	5,681	10	56,810
Plumbers										292	23	6,716	10	67,160
Pipefitters										220	23	5,060	10	50,600
Insulation workers										130	23	2,990	10	29,900
Operating Engineers										292	23	6,716	10	67,160
Oilers / Mechanics										97	23	2,231	10	22,310
Cement Finishers										252	23	5,796	10	57,960
Roofers										118	23	2,714	10	27,140
Sheetmetal Workers										152	23	3,496	10	34,960
Sprinkler Fitters										132	23	3,036	10	30,360
Painters										66	23	1,518	10	15,180
<b>TOTAL CRAFT LABOR</b>										<b>4,022</b>	<b>23</b>	<b>92,506</b>	<b>10</b>	<b>925,060</b>
<b>TOTAL SUPERVISION</b>										<b>391</b>	<b>23</b>	<b>8,993</b>	<b>10</b>	<b>89,930</b>
<b>TOTAL MANPOWER</b>										<b>4,413</b>	<b>46</b>	<b>101,499</b>	<b>20</b>	<b>1,014,990</b>

TABLE 5.10B-R1  
Construction and Demolition Personnel by Month

DEMOLITION UNIT 1 & 2	2022									MAN MONTHS	DAYS / MO.	MAN DAYS	HRS / DAY	MAN HOURS	
	CRAFT	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG						SEP
Carpenters		20	20	20	20	20	20	10	8	4	382	23	8,786	10	87,860
Laborers		8	8	8	8	6	6	4	4	2	162	23	3,726	10	37,260
Teamsters											0	23	0	10	0
Electricians		3	3	3	3	3	2	2	2		59	23	1,357	10	13,570
Iron Workers		3	3	3	3	3	3				54	23	1,242	10	12,420
Millwrights		4	4	4	4	4	4				72	23	1,656	10	16,560
Boilermakers											0	23	0	10	0
Plumbers											0	23	0	10	0
Pipefitters											6	23	138	10	1,380
Insulation Workers		3	3	3	3	3	3	3	2	2	68	23	1,564	10	15,640
Operating Engineers		2	2	2	2	2	2	2	2	2	44	23	1,012	10	10,120
Oilers / Mechanics											0	23	0	10	0
Cement Finishers															
Roofers															
Sheetmetal Workers															
Sprinkler Fitters															
Painters															
<b>TOTAL CRAFT LABOR</b>		<b>43</b>	<b>43</b>	<b>43</b>	<b>43</b>	<b>41</b>	<b>40</b>	<b>21</b>	<b>18</b>	<b>10</b>	<b>847</b>	<b>23</b>	<b>19,481</b>	<b>10</b>	<b>194,810</b>
<b>TOTAL SUPERVISION</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>120</b>	<b>23</b>	<b>2,760</b>	<b>10</b>	<b>27,600</b>
<b>TOTAL MANPOWER</b>		<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>46</b>	<b>45</b>	<b>26</b>	<b>23</b>	<b>15</b>	<b>967</b>	<b>23</b>	<b>22,241</b>	<b>10</b>	<b>222,410</b>

CONSTRUCT BLDG. 33 & 34 CONTROL BLDG AND MAINT.	2022									MAN MONTHS	DAYS / MO.	MAN DAYS	HRS / DAY	MAN HOURS	
	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP						
Piling Crew															
Carpenters		8	8	8	8	8	8	8	8		98	23	2,254	10	22,540
Laborers		10	10	10	10	10	10	10	10		124	23	2,852	10	28,520
Teamsters		4	4	4	4	4	4	4	4		50	23	1,150	10	11,500
Electricians		4	4	6	6	8	8	10	10		76	23	1,748	10	17,480
Ironworkers			8	8	8	8					52	23	1,196	10	11,960
Millwrights											0	23	0	10	0
Boilermakers											0	23	0	10	0
Plumbers		2	2	2	4	4	4	4	4		41	23	943	10	9,430
Pipefitters		4	6	6	6	6	6	6	4		34	23	782	10	7,820
Insulation workers					4	4	4	4	4		20	23	460	10	4,600
Operating Engineers		4	3	3	3	2	2	2	2		39	23	897	10	8,970
Oilers / Mechanics		2	2	2	2	2	2	2	2		25	23	575	10	5,750
Cement Finishers		6	6								36	23	828	10	8,280
Masons		4	4	4	4	4					24	23	552	10	5,520
Sheetrockers								6	6		12	23	276	10	2,760
Roofers											0	23	0	10	0
Sheetmetal Workers						6	6	6	6		24	23	552	10	5,520
Sprinkler Fitters				5	5	5	5	5			25	23	575	10	5,750
Painters								6	6		12	23	276	10	2,760
I & C - Control Room								8	8		16	23	368	10	3,680
<b>TOTAL CRAFT LABOR</b>		<b>48</b>	<b>57</b>	<b>58</b>	<b>64</b>	<b>71</b>	<b>59</b>	<b>75</b>	<b>72</b>		<b>720</b>	<b>23</b>	<b>16,560</b>	<b>10</b>	<b>165,600</b>
<b>TOTAL SUPERVISION</b>		<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>		<b>52</b>	<b>23</b>	<b>1,196</b>	<b>10</b>	<b>11,960</b>
<b>TOTAL MANPOWER</b>		<b>52</b>	<b>61</b>	<b>62</b>	<b>68</b>	<b>75</b>	<b>63</b>	<b>79</b>	<b>76</b>		<b>772</b>	<b>23</b>	<b>17,756</b>	<b>10</b>	<b>177,560</b>