

DOCKETED

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Project Title:	Palen Solar Power Project - Compliance
TN #:	200036
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California Energy Commission
Dockets Unit
1516 Ninth Street
Sacramento, CA 95814-5512

**Subject: PALEN SOLAR HOLDINGS, LLC'S ADVANCE RESPONSE TO DATA
REQUEST 82
PALEN SOLAR ELECTRIC GENERATING SYSTEM
DOCKET NO. (09-AFC-7C)**

Enclosed for filing with the California Energy Commission is the electronic version of **PALEN SOLAR HOLDINGS, LLC'S ADVANCE RESPONSE TO DATA REQUEST 82**, for Palen Solar Electric Generating System (09-AFC-7C).

Sincerely,



Marie Fleming

Construction Personnel by Month¹

CLIENT: BrightSource Industries Israel																														BY: CH2M HILL					
PROJECT: Palen Solar Electric Generating System																														REV: 1					
DOCUMENT: 459892-PSEGS-DOC-006																														DATE: 24 Jul 2013					
Month	Month → ↓ SOC ↓	1 10/13	2 11/13	3 12/13	4 1/14	5 2/14	6 3/14	7 4/14	8 5/14	9 6/14	10 7/14	11 8/14	12 9/14	13 10/14	14 11/14	15 12/14	16 1/15	17 2/15	18 3/15	19 4/15	20 5/15	21 6/15	22 7/15	23 8/15	24 9/15	25 10/15	26 11/15	27 12/15	28 1/16	29 2/16	30 3/16	31 4/16	32 5/16	33 6/16	TOTAL
PROJECT SITE																																			
Craft Day Shift																																			
Boilermaker	47-2011	0	0	4	4	5	7	9	11	11	11	12	14	30	33	45	53	64	84	110	139	163	192	191	179	152	126	98	73	53	38	30	26	16	1,967
Carpenters	47-2031	1	3	8	10	16	30	50	57	67	79	82	93	88	90	87	82	78	73	69	63	53	52	44	36	33	28	23	17	13	11	9	8	5	1,453
Cement Finisher	47-2051	0	3	1	2	5	7	8	10	12	13	13	13	13	13	13	13	11	10	9	7	7	6	5	4	4	3	2	1	1	1	1	1	1	213
Electrician	47-2111	1	4	5	8	10	20	34	38	37	34	36	38	45	60	70	76	85	106	136	173	209	255	250	240	220	191	159	119	93	76	60	51	31	2,939
Iron Worker	47-2221	0	0	0	5	10	3	13	18	26	35	41	49	53	59	64	67	72	77	81	82	76	75	65	52	53	42	33	24	17	13	11	11	7	1,227
Laborer	47-2061	4	6	13	15	23	37	58	67	74	80	93	95	90	91	83	80	80	81	81	77	65	59	49	41	42	36	30	21	18	15	13	13	8	1,630
Millwright	49-9044	0	0	0	2	3	5	1	1	0	2	2	21	27	42	50	55	64	73	81	87	95	101	97	89	75	62	48	35	30	26	26	16	1,201	
Equipment Operator	47-2073	1	4	8	10	13	23	34	40	41	44	47	52	52	53	51	53	56	62	67	71	70	71	65	58	52	43	35	26	19	16	13	13	8	1,263
Pipefitter	47-2152	0	0	11	13	17	33	41	46	51	57	63	69	80	89	104	119	141	179	226	272	314	368	361	339	294	247	200	146	110	88	67	59	36	4,204
Teamster	53-3032	1	3	3	3	4	7	10	13	13	13	14	16	17	18	17	18	19	20	20	19	18	16	14	12	10	8	6	5	4	4	4	2	366	
Craft-Day Shift Subtotal		8	23	53	72	103	170	257	299	331	365	403	441	489	533	576	610	662	756	873	987	1063	1192	1148	1061	951	802	651	482	364	292	234	212	130	16,463
Non-craft Day Shift²																																			
Project Manager	11-9021	3	4	3	4	5	6	6	6	7	7	7	8	8	8	8	10	11	10	10	11	12	16	14	12	10	9	8	6	5	5	4	2	1	245
Construction Manager	11-9021	10	12	12	14	17	21	24	25	25	27	29	31	32	32	32	38	43	38	40	41	46	62	55	45	38	34	32	24	21	19	15	9	6	943
PM Assistant	11-9021	6	6	6	7	9	11	12	12	12	14	14	15	16	16	19	22	19	20	21	23	31	27	22	19	17	16	12	11	9	8	5	3	473	
Support	43-3031	18	21	14	20	26	32	37	40	41	43	46	49	51	51	52	61	69	62	65	66	74	100	88	72	61	54	52	39	34	30	24	15	9	1,507
Support Assistant	43-9199	33	39	23	31	41	52	58	61	62	67	70	75	77	79	94	106	95	100	102	115	156	138	113	94	85	83	61	53	47	38	24	14	2,351	
Engineer	17-2000	10	14	14	14	23	30	33	36	37	38	41	44	45	46	46	55	62	55	58	59	66	89	78	64	54	48	46	35	30	27	22	13	8	1,332
Time Keeper	43-3051	2	2	2	2	2	3	3	3	3	4	4	4	4	4	4	5	6	5	5	5	6	8	7	6	5	4	4	3	2	2	1	1	1	123
Administrator	43-1011	7	7	5	5	7	8	9	10	10	11	11	12	12	12	15	17	15	16	16	18	24	21	17	15	13	12	9	8	7	6	4	2	371	
Surveyor	17-1022	16	16	16	12	8	6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	2	2	2	2	1	1	1	0	157	
Non-craft Day Shift Subtotal		105	121	95	109	138	169	186	197	201	215	226	242	249	252	253	301	340	303	318	325	364	490	432	354	298	266	255	191	166	147	120	74	44	7,502
TOTAL PROJECT SITE DAY SHIFT		113	144	148	181	241	339	443	496	532	580	629	683	738	785	829	911	1,002	1,059	1,191	1,312	1,427	1,682	1,580	1,415	1,249	1,068	906	673	530	439	354	286	174	23,965
Craft Swing Shift																																			
Boilermaker	47-2011	0	0	0	0	2	2	2	3	3	3	3	4	9	11	14	17	22	30	40	51	61	72	72	67	66	54	42	31	22	16	13	12	7	744
Carpenters	47-2031	1	1	4	5	7	9	13	16	20	24	26	32	33	33	32	31	31	30	29	27	23	23	20	17	14	12	10	7	6	5	4	4	2	549
Cement Finisher	47-2051	0	1	1	1	1	1	2	2	3	3	3	4	4	4	4	5	4	4	4	4	3	2	2	2	2	1	1	1	1	1	1	1	1	73
Electrician	47-2111	0	1	2	3	5	9	14	16	17	16	18	18	23	27	31	34	37	44	57	72	86	104	102	97	94	82	67	51	40	33	25	22	13	1,247
Iron Worker	47-2221	0	0	0	0	5	19	22	25	27	33	35	35	38	40	42	44	46	48	51	51	49	51	46	40	23	18	14	10	7	6	5	4	2	834
Instrument Tech	49-9012	0	0	0	0	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	0	0	0	0	0	0	0	0	228
Laborer	47-2061	2	5	6	6	8	3	12	16	18	21	25	27	28	29	27	27	27	28	30	28	24	23	18	15	18	15	13	10	8	7	6	6	4	536
Millwright	49-9044	0	0	0	0	1	9	10	10	10	10	10	11	16	18	24	26	28	32	36	40	42	46	48	46	38	32	27	21	15	13	12	12	7	643
Equipment Operator	47-2073	0	2	3	4	6	6	11	13	14	15	17	19	19	21	21	21	23	26	29	31	30	31	28	26	22	18	15	11	9	7	6	5	3	509
Pipefitter	47-2152	0	0	6	7	9	2	9	11	13	15	20	21	24	28	35	40	48	64	81	100	119	140	137	126	124	107	86	64	47	37	29	24	14	1,573
Teamster	53-3032	0	0	1	1	2	2	3	4	4	4	6	6	6	6	6	6	6	7	7	8	7	7	6	5	5	4	3	2	2	2	1	1	1	130
Craft-Day Shift Subtotal		3	10	23	27	46	74	110	128	141	156	175	189	212	229	248	263	284	325	376	424	456	511	491	453	406	343	278	208	157	127	102	91	54	7,066
Non-craft Swing Shift²																																			
Project Manager	11-9021	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	3	3	2	2	2	2	1	1	1	1	1	0	51
Construction Manager	11-9021	1	2	3	3	4	5	6	7	7	8	9	9	9	10	10	10	11	12	12	13	15	17	16	15	13	11	11	8	7	6	5	3	2	278
PM Assistant	11-9021	1	1	2	2	3	4	5	5	5	6	7	7	7	7	7	8	8	9	9	11	12	12	12	11	9	8	6	5	4	4	2	1	202	
Support	43-3031	1	3	4	5	7	9	10	11	11	12	12	13	13	13	13	17	17	19	19	21	24	23	21	18	16	15	11	9	8	7	4	3	395	
Support Assistant	43-9199	1	2	4	5	6	8	9	9	10	11	11	12	12	12	15	15	16	17	20	22	22	21	20	17	14	14	10	8	8	6	4	2	362	
Engineer	17-2000	1	2	2	3	4	5	5	6	6	7	8	8	8	8	8	8	9	10	10	11	12	15	14	12	11	9	7	6	5	4	3	2	236	
Time Keeper	43-3051	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	0	0	35	
Administrator	43-1011	0	0	0	0	1	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	5	5	4	3	3	3	2	2	2	1	1	1	77
Non-craft Swing Shift Subtotal		7	12	17	2																														



**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**

**PALEN SOLAR ELECTRIC
GENERATING SYSTEM AMENDMENT**

**Docket No. 09-AFC-07C
PROOF OF SERVICE
(Revised 07/09/2013)**

SERVICE LIST:

APPLICANT

Palen Solar Holdings, LLC
Clay Jensen
Charlie Turlinski
Amanda McCoy
1999 Harrison Street, Suite 2150
Oakland, CA 94612
cjensen@brightsourceenergy.com
cturlinski@brightsourceenergy.com
amccoy@brightsourceenergy.com

APPLICANT'S CONSULTANT

Centerline
Andrea Grenier
1420 E. Roseville Parkway
Suite 140-377
Roseville, CA 95661
andrea@agrenier.com

APPLICANT'S COUNSEL

Scott Galati, Esq.
Marie Fleming
Galati/Blek, LLP
455 Capitol Mall, Suite 350
Sacramento, CA 95814
sgalati@gb-llp.com
mfleming@gb-llp.com

INTERESTED AGENCY

California ISO
e-recipient@caiso.com

County of Riverside
Office of Riverside County Counsel
Tiffany North
3960 Orange Street, Suite 500
Riverside, CA 92501
tnorth@co.riverside.ca.us

South Coast Air Quality
Management District
Mohsen Nazemi
21865 Copley Drive
Diamond Bar, CA 91765-4178
mnazemi1@aqmd.gov

INTERVENORS

Center for Biological Diversity
Lisa T. Belenky, Senior Attorney
351 California St., Suite 600
San Francisco, CA 94104
lbelenky@biologicaldiversity.org

Center for Biological Diversity
Ileene Anderson
Public Lands Desert Director
PMB 447, 8033 Sunset Boulevard
Los Angeles, CA 90046
ianderson@biologicaldiversity.org

Basin and Range Watch
Kevin Emmerich
Laura Cunningham
P.O. Box 153
Baker, CA 92309
atomictoadbranch@netzero.net
bluerockiguana@hughes.net

Californians for Renewable Energy
Alfredo Acosta Figueroa
424 North Carlton Avenue
Blythe, CA 92225
lacunadeaztlan@aol.com

California Unions for Reliable Energy
Tanya A. Gulesserian
Elizabeth Klebaner
Adams Broadwell Joseph & Cardoza
601 Gateway Boulevard, Suite 1000
South San Francisco, CA 94080
tgulesserian@adamsbroadwell.com
eklebaner@adamsbroadwell.com

Hildeberto Sanchez, Eddie Simmons,
and Laborers' International Union of
North America, Local Union No. 1184
c/o Richard T. Drury
Christina M. Caro
Lozeau|Drury LLP
410 12th Street, Suite 250
Oakland, CA 94607
richard@lozeaudrury.com
christina@lozeaudrury.com

ENERGY COMMISSION STAFF

Christine Stora
Project Manager
Siting, Transmission and
Environmental Protection Division
1516 Ninth Street, MS-2000
Sacramento, CA 95814-5512
christine.stora@energy.ca.gov

Jennifer Martin-Gallardo
Staff Counsel
Office of the Chief Counsel
1516 Ninth Street, MS-14
Sacramento, CA 95814-5512
jennifer.martin-gallardo@energy.ca.gov

*Indicates change

**ENERGY COMMISSION –
PUBLIC ADVISER**

*Alana Mathews
Public Adviser
1516 Ninth Street, MS-12
Sacramento, CA 95814-5512
publicadviser@energy.ca.gov

COMMISSION DOCKET UNIT

California Energy Commission
Docket Unit
Attn: Docket No. 09-AFC-07C
1516 Ninth Street, MS-4
Sacramento, CA 95814-5512
docket@energy.ca.gov

**OTHER ENERGY COMMISSION
PARTICIPANTS (LISTED FOR
CONVENIENCE ONLY):**

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Commissioner and Presiding Member

DAVID HOCHSCHILD
Commissioner and Associate Member

Kenneth Celli
Hearing Adviser

Galen Lemei
Adviser to Presiding Member

Jennifer Nelson
Adviser to Presiding Member

Gabriel D. Taylor
Adviser to Associate Member

Eileen Allen
Commissioners' Technical
Adviser for Facility Siting

DECLARATION OF SERVICE

I, Marie Fleming declare that on July 24, 2013, I served and filed copies of the attached **PALEN SOLAR HOLDINGS, LLC'S ADVANCE RESPONSE TO DATA REQUEST 82**, dated July 24, 2013. This document is accompanied by the most recent Proof of Service, which I copied from the web page for this project at: <http://www.energy.ca.gov/sitingcases/palen/compliance/>.

The document has been sent to the other persons on the Service List above in the following manner:

(Check one)

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

 X I e-mailed the document to all e-mail addresses on the Service List above and personally delivered it or deposited it in the U.S. 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 U.S. 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: July 24, 2013



Marie Fleming