

STATE OF CALIFORNIA
Energy Resources Conservation
and Development Commission

DOCKET 07-AFC-5
DATE _____
RECD. <u>AUG 24 2010</u>

In the Matter of:)
)
Application for Certification for the Ivanpah Solar) Docket No. 07-AFC-5
Electric Generating System)
_____)

APPLICANT'S EXHIBIT 91

For

THE IVANPAH SOLAR PROJECT

Jeffery D. Harris
Ellison, Schneider & Harris L.L.P.
2600 Capitol Avenue, Suite 400
Sacramento, California 95816
Telephone: (916) 447-2166
Facsimile: (916) 447-3512

Attorneys for the Applicant

Ivanpah SEGS Update - Crowned Muilla (*Muilla coronata*)

PREPARED FOR: John Carrier/SAC
PREPARED BY: Amy Hiss/SAC
COPIES: FILE
DATE: August 11, 2010 (Revised on August 24, 2010)
PROJECT NUMBER: 357891

During the week of March 22 through 26, 2010, a botanical team relocated what had been mapped in 2008 as four small-flowered androstephium (*Androstephium breviflorum*) localities at the ISEGS site. We determined that the plants at these localities are not small-flowered androstephium, but are a different, lower-ranked special-status plant, crowned muilla (*Muilla coronata*). We also found 3 additional localities of crowned muilla while walking from place to place across the site.

This species is included on List 4.2 of the California Native Plant Society's (CNPS) Inventory of Rare and Endangered Plants (a watch list). Small-flowered androstephium is a CNPS List 2.2 species. Photographs of crowned muilla and small-flowered androstephium are provided at the end of this report. The leaves of crowned muilla and small-flowered androstephium, the only part of the plant visible during the 2008 surveys, are very similar. Based on leaf characteristics alone, these two species are very difficult to distinguish. None of the plants previously mapped as small-flowered androstephium were found to be this species. Crowned muilla blooms very early, and surveys need to be conducted in February or March to detect it.

Crowned muilla is known from five counties in California (Inyo, Kern, Tulare, Los Angeles, and San Bernardino). It is described as occurring in Nevada County, California, in the CNPS Inventory, but that is not confirmed by Consortium records. There are 44 collection records in the Consortium. Crowned muilla is also known from a few locations in western Nevada; therefore, this species is not endemic to California.

Recently, this species has been identified in several locations in the Mojave, and these finds suggest that its range possibly could extend all the way across the central Mojave; however, this conclusion has not been documented.



Photo 1 - crowned muilla (*Muilla coronata*)



Photo 2 - crowned muilla (*Muilla coronata*)



Photo 3 –small-flowered androstephium (*Androstephium breviflorum*)
(note: photograph not from ISEGS Site)

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SOLAR ELECTRIC GENERATING SYSTEM) Docket No. 07-AFC-5
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PROOF OF SERVICE

I, Karen A. Mitchell, declare that on August 24, 2010, I served the attached *Applicant's Exhibit 91 for the Ivanpah Solar Project* via electronic mail and United States Mail to all parties on the attached service list.

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



Karen A. Mitchell



**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 *IVANPAH SOLAR ELECTRIC
GENERATING SYSTEM*

DOCKET No. 07-AFC-5
PROOF OF SERVICE
(Revised 3/11/10)

APPLICANT

Solar Partners, LLC
John Woolard,
Chief Executive Officer
1999 Harrison Street, Suite #500
Oakland, CA 94612

Todd A. Stewart, Project Manager
Ivanpah SEGS
sdeyoung@brightsourceenergy.com
E-mail Preferred

Steve De Young, Project Manager
Ivanpah SEGS.
1999 Harrison Street, Ste. 2150
Oakland, CA 94612
tstewart@brightsourceenergy.com

APPLICANT'S CONSULTANTS

John L. Carrier, J. D.
2485 Natomas Park Dr. #600
Sacramento, CA 95833-2937
jcarrier@ch2m.com

COUNSEL FOR APPLICANT

Jeffery D. Harris
Ellison, Schneider
& Harris L.L.P.
2600 Capitol Avenue, Ste. 400
Sacramento, CA 95816-5905
jdh@eslawfirm.com

INTERESTED AGENCIES

California ISO
e-recipient@caiso.com

Tom Hurshman,
Project Manager
Bureau of Land Management
2465 South Townsend Ave.
Montrose, CO 81401
tom_hurshman@blm.gov

Raymond C. Lee, Field Manager
Bureau of Land Management
1303 South U.S. Highway 95
Needles, CA 92363
Raymond_Lee@ca.blm.gov

Becky Jones
California Department of
Fish & Game
36431 41st Street East
Palmdale, CA 93552
dfqpalm@adelphia.net

INTERVENORS

California Unions for Reliable Energy ("CURE")
c/o: Tanya A. Gulesserian
Marc D. Joseph
Adams Broadwell Joseph & Cardozo
601 Gateway Boulevard, Ste 1000
South San Francisco, CA 94080
tgulesserian@adamsbroadwell.com

Western Watersheds Project
Michael J. Connor, Ph.D.
P.O. Box 2364
Reseda, CA 91337-2364
mjconnor@westernwatersheds.org

Gloria Smith, Joanne Spalding
Sidney Silliman, Devorah Ancel
Sierra Club
85 Second Street, 2nd Fl.
San Francisco, CA 94105
E-mail Service Preferred
gloria.smith@sierraclub.org
joanne.spalding@sierraclub.org
gssilliman@csupomona.edu
devorah.ancel@sierraclub.org

*indicates change

INTERVENORS CONT.

Joshua Basofin, CA Rep.
Defenders of Wildlife
1303 J Street, Ste. 270
Sacramento, CA 95814

E-mail Service Preferred

jbasofin@defenders.org

Basin and Range Watch
Laura Cunningham

Kevin Emmerich

P.O. Box 70

Beatty, NV 89003

atmictoadranch@netzero.net

Center for Biological Diversity

Lisa T. Belenky, Sr. Attorney

Ileene Anderson, Public Lands Desert Director

351 California Street, Ste. 600

San Francisco, CA 94104

E-mail Service Preferred

lbelenky@biologicaldiversity.org

ianderson@biologicaldiversity.org

California Native Plant Society

Greg Suba, Tara Hansen & Jim Andre

2707 K Street, Suite 1

Sacramento, California, 95816-5113

E-mail Service Preferred

gsuba@cnps.org

thansen@cnps.org

granites@telis.org

County of San Bernardino

Bart W. Brizzee, Deputy Co. Counsel

385 N. Arrowhead Avenue, 4th Fl.

San Bernardino, California, 92415

bbrizzee@cc.sbcounty.gov

ENERGY COMMISSION

JEFFREY D. BYRON

Commissioner and Presiding Member

jbyron@energy.state.ca.us

JAMES D. BOYD

Vice Chairman and

Associate Member

jboyd@energy.state.ca.us

Paul Kramer

Hearing Officer

pkramer@energy.state.ca.us

John Kessler

Project Manager

jkessler@energy.state.ca.us

Dick Ratliff

Staff Counsel

dratliff@energy.state.ca.us

Jennifer Jennings

Public Adviser

publicadviser@energy.state.ca.us