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DOCKET

07-AFC-5

DATE June 05 2009

RECD. June 05 2009

June 5, 2009
File No.: 04.02.16.02
Project No. 357891

Mr. John Kessler, Project Manager
California Energy Commission
Systems Assessment and Facilities Siting Division
1516 9th Street, MS 15
Sacramento, CA 95814-5504

RE: Supplemental Data Response, Set 2F
Ivanpah Solar Electric Generating System (07-AFC-5)

Dear Mr. Kessler:

On behalf of Solar Partners I, LLC, Solar Partners II, LLC, Solar Partners IV, LLC, and Solar Partners VIII, LLC, please find attached one original and four hard copies and five CD copies of the Supplemental Data Response, Set 2F.

Please call me if you have any questions.

Sincerely,

CH2M HILL

A handwritten signature in blue ink that reads "John L. Carrier".

John L. Carrier, J.D.
Program Manager

Enclosure
c: POS List
Project File

Ivanpah Solar Electric Generating System (ISEGS)

(07-AFC-5)

Supplemental Data Response, Set 2F

(Response to Soil & Water Resources)

Submitted to the
California Energy Commission

Submitted by
Solar Partners I, LLC; Solar Partners II, LLC; Solar Partners IV, LLC;
and Solar Partners VIII, LLC

June 5, 2009

With Assistance from

CH2MHILL
2485 Natomas Park Drive
Suite 600
Sacramento, CA 95833

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Introduction

Attached is a supplemental response by Solar Partners I, LLC; Solar Partners II, LLC; Solar Partners IV, LLC; and Solar Partners VIII, LLC (Applicant) to the California Energy Commission (CEC) Staff's data request for the Ivanpah Solar Electric Generating System (Ivanpah SEGS) Project (07-AFC-5). This data request was the result of an email request received from John Kessler on June 3 and 4, 2009. As before, within each discipline area, the responses are presented in alphabetical order and are numbered for tracking and reference convenience. New graphics or tables are numbered in reference to the Supplemental Data Request number. For example, if a table were used in response to Data Request S&W-5, it would be numbered Table SW5-1. The first figure used in response to Data Request S&W-5 would be Figure SW5-1 and so on.

The Applicant looks forward to working cooperatively with the CEC and Bureau of Land Management (BLM) staff and the other resource agencies as the Ivanpah SEGS Project proceeds through the licensing process. We trust that these responses address the Staff's questions and we remain available to have any additional dialogue the Staff may require.

Soil & Water Resources (S&W-5)

Background

On June 3, 2009, CH2M HILL received an email request from John Kessler stating, “there is a range of possibilities out there in terms of particular dust suppression and erosion control products and their characteristics that can have varying degrees of effect on infiltration, runoff and water quality.”

Data Request

S&W5 It would help if you could include information on how the dust suppression product(s) could have any potential effect on infiltration, runoff and water quality.

Response: Information from the product supplier is provided as Attachment S&W5-1.

ATTACHMENT S&W5-1



June 4, 2009

Mr. Thomas M. Reagan
BrightSource Energy
1999 Harrison Street
Suite 2150
Oakland, CA 94612

Dear Thomas,

As further follow up to our May 6 meeting with you and your subsequent request for additional information about the composition of our products, we are pleased to supplement the original information we provided. As a summary and based on our meeting and subsequent discussion, following is our understanding of your long-term soil stabilization needs at the initial project near Primm, California:

- You desire 32 month stabilization treatments to be applied in one application over approximately 540 acres
- The project soils are sandy gravels
- BrightSource Energy wants to encourage water capture and infiltration through the soil stabilization techniques
- You are also looking for a stabilization technique to suppress dust on low volume roads

After consultation with Kevin Spittle, our Vice President of Research and Development, we are pleased to offer the following product considerations shown in the Table below. **We certify that all of the products shown in the Table below do not contain polyacrylamide (PAM).** In addition, based on large-scale rainfall simulation testing on slopes much steeper than are anticipated for your project, a conservative estimate of potential decrease in infiltration by using the products below is 3 – 5 percent. This range assumes slopes much steeper than the slopes for your project and also uses a rainfall event that is higher than anticipated for your project region. If we tested our products with slopes and rainfall typical of your project, the decrease in infiltration would likely be less than 1 percent and may even increase infiltration.

Product	Application Rate (lb/acre)	Functional Longevity	Infiltration Potential
CocoFlex™ BGM [#] / Terra-Shield™	3000 / 3000	Best	Best
Flexterra® BGM [#] / Terra-Shield™	3000 / 3000	Best	Best
CocoFlex™ BGM [#]	3500	Better	Good
Flexterra BGM [#]	4000	Better	Good
Hydro-Blanket® BFM / Terra-Shield™	3000 / 3000	Good	Better

*Tax not included, shipping included. Range of installation is \$ 600.00 – \$ 900.00/acre more depending on product selection, application rate and distance to water source.

BGM is a special formulation that Profile can offer for your application. We combine our BFM chemistry (with no PAM) with the CocoFlex or Flexterra fiber formulations to create increased durability and bond strength over our standard products.

We recommend a site visit to better assess your needs and would be pleased to offer demonstration materials to determine which product formulations will perform best on your project. Kurt Chirbas is readily available to meet with you on site or at your office to discuss any further details.

Profile Products has a proven track record in working with many clients similar to BrightSource Energy on a wide variety of environmentally sensitive products around the world. We believe we can help you develop cost effective methods to reach your soil stabilization and dust control goals.

We look forward to continued dialogue. If you have any questions or comments, please do not hesitate to contact Kurt Chirbas at 916-770-0399 (M) or me at 970-481-6932 (M) or mrobeson@profileproducts.com

Cordially,



Michael Robeson, M.S., P.E, CPESC, CPSWQ
Manager of Technical Services

cc: Kurt Chirbas – Western Market Development Manager
Marc S. Theisen – Vice President – Erosion Control Solutions
Kevin Spittle – Vice President – Research and Development



**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 5/27/09)

APPLICANT

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DECLARATION OF SERVICE

I, Mary Finn, declare that on June 5, 2009, I served and filed copies of the attached Supplemental Data Response, Set 2F, dated June 5, 2009. The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at: [www.energy.ca.gov/sitingcases/ivanpah]. The document has been sent to both the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

(Check all that Apply)

FOR SERVICE TO ALL OTHER PARTIES:

sent electronically to all email addresses on the Proof of Service list;

by personal delivery or by depositing in the United States mail at Sacramento, CA with first-class postage thereon fully prepaid and addressed as provided on the Proof of Service list above to those addresses **NOT** marked "email preferred."

AND

FOR FILING WITH THE ENERGY COMMISSION:

sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below (*preferred method*);

OR

depositing in the mail an original and 12 paper copies, as follows:

CALIFORNIA ENERGY COMMISSION

Attn: Docket No. _____
1516 Ninth Street, MS-4
Sacramento, CA 95814-5512
docket@energy.state.ca.us

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



Mary Finn