

Joseph Schnell Manager Special Projects **BNSF Railway Company** 2600 Lou Menk Drive

Ft. Worth, TX 76131

Tel: (817) 352-1918 Fax: (817) 352-7835 Joseph.Schnell@BNSF.com

July 29, 2010

Mr. Christopher Meyer **Energy Commission Project Manager** California Energy Commission 1516 Ninth Street Sacramento, CA 95814-5512

Mr. Jim Stobaugh Project Manager **BLM Nevada State Office** P.O. Box 12000 Reno NV 89520

DOCKET

08-AFC-13

DATE

JUL 29 2010

RECD. JUL 29 2010

Re:

BNSF Comments Regarding Prehearing Conference and for Consideration at Evidentiary Hearing

Calico Solar Project (Formerly SES Solar 1) Docket No. 08-AFC-13

Dear Sirs:

BNSF Railway ("BNSF") appreciates the opportunity to present comments for consideration during the Prehearing Conference, during which the Committee will assess the parties' readiness for an evidentiary hearing, identify areas of agreement or dispute, and discuss the remaining schedule and procedures necessary to conclude the certification process, and for consideration during the evidentiary hearing. [Cal. Code Regs., Tit. 20, § 1718.5; Notice of Prehearing Conference and Evidentiary Hearings, p. 3.] BNSF has reviewed the Staff Assessment and Draft Environmental Impact Statement ("SA/DEIS") for the Calico Solar Project ("Project") proposed by the Applicant Calico Solar, LLC ("Applicant" or "Calico Solar") published March 30, 2010, and the Supplemental Staff Assessment ("SSA"), published July 21, 2010. As explained in a previous submission, BNSF is one of the two Class 1 railroads operating in California. BNSF's mainline, which is traversed by as many as 80 trains per day, carries interstate commerce from the Ports of Los Angeles and Long Beach to U.S. Midwestern, Southwestern and Eastern markets. The proposed Project would surround both sides of several miles of BNSF's mainline tracks. Accordingly, BNSF has significant concerns that the construction and operation of the Project do not adversely impact BNSF operations or otherwise impose unacceptable safety risks to BNSF personnel and operations.

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The consummation of the Project would require the granting of several licenses and permits from BNSF, which Calico Solar has requested in a piecemeal fashion over the course of the past year. To date, none of these requested licenses or permits have been granted. Before BNSF can grant such licenses and permits, BNSF must be assured that the concerns detailed below be addressed. The purpose of this submission is to provide the committee with a summary of the areas of concern, and to identify those concerns that BNSF feels have not been resolved.

1. Transmission Line Safety and Nuisance - Induction

BNSF is concerned the proposed proximity of the transmission line to BNSF's mainline may result in electrical induction on the rail. As has been addressed in previous submissions, the proposed Project would include approximately 1.9 miles of new transmission line immediately adjacent to BNSF's mainline. BNSF has experienced interference with signals, equipment malfunction, and employees being shocked in similar situations in other locations, and is concerned that the proposed configuration of these Project elements may raise a safety issue.

In the absence of any studies addressing induction issues which may be caused by the Project, BNSF has taken a conservative position with respect to the necessary setback of the transmission line to avoid any induction issues, and believes that a 300' setback from the right of way should be maintained. Calico Solar has agreed to set back the proposed transmission line 300' from the BNSF right of way. In addition, per BNSF requirements, in the location where the transmission line is proposed to cross the tracks, it would do so at a 90-degree angle, and would travel 300' from the far side of the right of way before returning to a parallel configuration. Avoiding electrical induction of the rail line is a critical safety requirement. Therefore, BNSF requests that Calico Solar's agreed-upon setback of the transmission line from the right of way be incorporated into the Committee's decision on Calico Solar's application as a Condition of Certification.

2. Hazardous Materials Management - Hydrogen

Due to critical safety concerns, BNSF opposes the transport of hydrogen above or beneath its tracks. BNSF is concerned that hydrogen pipelines passing under or near the mainline track may adversely impact rail operations and create unacceptable safety risks. Calico Solar has proposed two alternate systems to provide hydrogen to the 34,000 SunCatchers proposed to be constructed on the 6,215 acre site within 100' of both sides of approximately five miles of the transcontinental mainline. Under one scenario, the Applicant would construct a single extensive underground pipeline system, 2 ½ feet below the ground, serving the entire Project. SSA p. C.5-8. This approach would involve boring a hydrogen pipeline under the mainline, which has the potential to compromise the integrity of the track structure. Moreover, BNSF's routine maintenance activities involve digging, trenching, excavating and filling areas of the right of way. A hydrogen pipeline located under or near the right of way could be contacted during these

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activities, posing a safety hazard to employees. Finally, if a derailment were to occur, given the desert sands, train cars could come in contact with the shallow underground pipeline system.

Under the second alternative scenario, hydrogen for the SunCatchers would be generated on-site and would be distributed to the SunCatchers via bottles carried on trucks. SSA p. C.5-8. This would involve individual SunCatchers being supplied from the hydrogen storage tank by trucks. An accident or collision between the hydrogen trucks and another vehicle or train at the at-grade crossing, or an accident on the proposed bridge, could result in significant safety issues.

Calico Solar has represented that it is willing to provide hydrogen to the SunCatchers through two separate hydrogen systems, one on the north side of the right of way and one on the south side, thereby helping to alleviate BNSF's stated concerns. BNSF supports the placement of two separate hydrogen generation facilities, one north and one south of its tracks, and requests that this be incorporated into the Committee's decision on Calico Solar's application as a Condition of Certification. In addition, if Calico Solar opts to use the centralized pipeline system, the appropriate distance of the nearest pipelines to the right of way would need to be determined.

BNSF requests that the Risk Analysis being prepared with respect to hydrogen consider possible derailment scenarios, appropriate mitigation be determined and the system not be activated until all mitigation is fully implemented. BNSF also requests that should the centralized pipeline system be selected, the exact location of hydrogen pipelines in relation to the signal cable and the right of way be evaluated to ensure the protection of rail infrastructure and operations. In addition, BNSF requests that sensors be required to be placed to detect hydrogen leaks; that mitigation measures such as automatic shut-off valves along the hydrogen pipeline be required; that the Spill Prevention, Control, and Countermeasures Plan require notification of the railroad of hydrogen releases which could impact rail safety and operations; and that an auto-dialer and/or other notification system be established to promptly notify BNSF of such hydrogen releases.

3. Biological Resources – Desert Tortoise

In a derailment scenario, BNSF workers and emergency response personnel must have full access to BNSF's right of way and the adjacent lands in order to respond to the emergency. Such access will likely require temporary removal of portions of the desert tortoise exclusionary fence the Applicant is required to install as part of the Project. BNSF requests that, in the case of derailment or other emergency, Calico Solar be required to provide BNSF access to the Project site for emergency response as a Condition of Certification. This access may include, among other activities, temporary removal of portions of the desert tortoise exclusionary fencing and the placement of a temporary fence. BNSF also requests that the Condition of Certification require Calico Solar contractors and employees to participate in BNSF's environmental sensitivity training program prior to commencing work at the Project site.

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4. Soil and Water Resources - Detention Basins

BNSF is concerned that detention basins are not sufficient to protect the tracks and their supporting structures. The Project incorporates detention basins that have been designed for a 100 year flood. SSA. P. C.7-26. Given the gradient of the Project site, BNSF is concerned that the steps being proposed are not adequate to ensure protection of the tracks and their supporting structures or soil. A characteristic of high desert environs such as the Project site is an increased likelihood of flash floods, which over a sustained period of hours or days may cause the detention basins to overflow and cause a high volume of water in a concentrated flow to wash through the area, eroding the terrain around and supporting the tracks. It needs to be determined whether the applicant should be required to fund the reinforcement of rail infrastructure.

5. Hydrology - Subsidence

As has been addressed in previous submissions, BNSF is concerned the potential drawdown of the groundwater basin by the newly proposed water well may cause subsidence which might adversely affect rail track alignment, increasing the risk of derailment. While the SA/DEIS briefly addresses the issue of possible subsidence due to groundwater pumping at p. C.4-12, and the SSA discusses the issue at C.4-13 (Geology and Paleontology), BNSF is concerned that the analysis may not be sufficient. In addition, while Calico Solar represents that it is currently the only water user in the groundwater basin, BNSF notes that it intends to preserve the option of replacing its abandoned wells in the Hector Road location.

BNSF understands that Calico Solar is required to conduct groundwater monitoring on a quarterly basis. BNSF requests that as a Condition of Certification, Calico Solar be required to provide BNSF with such quarterly reports, and that a notification procedure be put in place for any noted subsidence, whereby BNSF maintenance teams would be alerted of the issue.

6. Transportation – Glint and Glare

As has been addressed in previous submissions, the portion of the BNSF mainline along which the Project is proposed to be built is curved. An essential signal for rail traffic is located in the vicinity near Hector Road. Signals are critical safety features. The Applicant proposes to locate the nearest SunCatchers as close as 100' from the right of way, on both sides of the transcontinental mainline track for approximately five miles. Daytime glint and glare from the 34,000 SunCatcher mirrors and associated structures, in particular when the mirrors are in offset tracking position, may significantly impact BNSF engineers' ability to see the signal. The situation would be exacerbated by the site elevations which Calico Solar has proposed.

BNSF is required by federal regulations to maintain visual contact with signals. If a train's contact with a signal is lost and cannot be regained, the engineer is required to stop the train.

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This often requires an emergency application of the brakes, risking derailment of the train. When a train has been stopped through emergency application of the brakes, BNSF General Code of Operating Rule 6.23 requires the engineer to inspect all cars, units, equipment and track pursuant to BNSF special instructions and rules. This can cause significant delays to rail operations with ramifications reaching from the Ports of Los Angeles and Long Beach to Chicago and beyond.

The illuminated background created by the SunCatcher field could result in an engineer perceiving the signal to be dark or to be displaying a white light, both of which, under BNSF General Code of Operating Rule 9.4, require the engineer immediately to stop the train.

Thus, glint and glare are critical safety and operational issues. While the SA/DEIS has begun to address glint and glare with respect to motorists on nearby roadways (SA/DEIS pp. C.13-13 – C.13-22), and BNSF understands that a Glint and Glare Study is currently being performed, neither currently addresses potential glare impacts to rail, nor are these studies specific to the Project site. In addition, the SSA Transportation section has not yet been released, and BNSF is therefore unable to make meaningful comments on the potential Glint and Glare analysis at this time.

BNSF requests that the following Condition of Certification be incorporated into the Project:

Prior to the first SunCatcher disc being mounted on a pedestal, a site-specific Glare/Glint study shall be performed to address the Glare /Glint issues raised by BNSF with respect to the potential impact of the proposed Calico Solar SunCatchers on BNSF rail operations and the recommended mitigation measures, once approved by BNSF, shall be implemented by Calico Solar at its expense.

As information and studies and the section of the SSA responsive to this critical concern, among other vital transportation related concerns, remain to be published in the coming weeks, BNSF intends to submit a petition to intervene in this proceeding. Accordingly, Calico Solar has agreed to support BNSF's petition. BNSF will include the above comments in declarations as soon as possible, some of which will accompany the petition to intervene.

To the extent that any of the above rail-related issues have not been analyzed in the Project SA/DEIS or SSA, BNSF asks that the issues be analyzed and incorporated into any Committee decision regarding the Project. BNSF requests that, where applicable, the issues be addressed, through Project design, operation plans, permit conditions, or as mitigation measures as appropriate. We will continue to work with Calico Solar and look forward to meeting with CEC and BLM Project teams as soon as possible to provide any information or suggestions that will assist the agencies in their analysis and recommendations. Thank you for the opportunity to comment on the SA/DEIS and SSA. If you have any questions, please contact Mr. Joseph Schnell at (817) 352-1918.

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Very truly yours,

Joseph Schnell



BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE STATE OF CALIFORNIA 1516 NINTH STREET, SACRAMENTO, CA 95814 1-800-922-6228 — www.energy.ca.gov

APPLICATION FOR CERTIFICATION

For the CALICO SOLAR (Formerly SES Solar One)

Docket No. 08-AFC-13 PROOF OF SERVICE (Revised 7/12/10)

APPLICANT

Felicia Bellows
Vice President of Development & Project
Manager
Tessera Solar
4800 North Scottsdale Road, #5500
Scottsdale, AZ 85251
felicia.bellows@tesserasolar.com

CONSULTANT

Angela Leiba
AFC Project Manager
URS Corporation
1615 Murray Canyon Rd., #1100
San Diego, CA 92108
angela leiba@URSCorp.com

APPLICANT'S COUNSEL

Allan J. Thompson Attorney at Law 21 C Orinda Way #314 Orinda, CA 94563 allanori@comcast.net

Ella Foley Gannon, Partner Bingham McCutchen, LLP Three Embarcadero Center San Francisco, CA 94111 ella.gannon@bingham.com

INTERESTED AGENCIES

California ISO
e-recipient@caiso.com
Jim Stobaugh
BLM – Nevada State Office
P.IO. Box 12000
Reno, NV 89520
jim stobaugh@blm.gov

Rich Rotte, Project Manager Bureau of Land Management Barstow Field Office 2601 Barstow Road Barstow, CA 92311 Richard rotte@blm.com Becky Jones California Department of Fish & Game 36431 41st Street East Palmdale, CA 93552 dfgpalm@adelphia.net

INTERVENORS

County of San Bernardino
Ruth E. Stringer, County Counsel
Bart W. Brizzee, Deputy County Counsel
385 N. Arrowhead Avenue, 4th Floor
San Bernardino, CA 92415-0140
bbrizzee@cc.sbcounty.gov

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

Defenders of Wildlife Joshua Basofin 1303 J Street, Suite 270 Sacramento, California 95814 <u>e-mail service preferred</u> jbasofin@defenders.org

Society for the Conservation of Bighorn Sheep Bob Burke & Gary Thomas P.O. Box 1407 Yermo, CA 92398 cameracoordinator@sheepsociety.com

Basin and Range Watch
Laura Cunningham & Kevin Emmerich
P.O. Box 70
Beatty, NV 89003
atomictoadranch@netzero.net

Patrick C. Jackson 600 N. Darwood Avenue San Dimas, CA 91773 e-mail service preferred ochasjack@earthlink.net Gloria D. Smith, Senior Attorney Sierra Club 85 Second Street, Second Floor San Francisco, CA 94105 gloria.smith@sierraclub.org

*Newberry Community Service District Wayne W. Weierbach P.O. Box 206 Newberry Springs, CA 92365 newberryCSD@gmail.com

ENERGY COMMISSION ANTHONY EGGERT Commissioner and Presiding Member aeggert@energy.state.ca.us

JEFFREY D. BRYON Commissioner and Associate Member jbyron@energy.state.ca.us

Paul Kramer Hearing Officer pkramer@energy.state.ca.us

Lorraine White, Adviser to Commissioner Eggert e-mail service preferred white@energy.state.ca.us

Kristy Chew, Advisor to Commissioner Byron <u>e-mail service preferred</u> kchew@energy.state.ca.us

Caryn Holmes Staff Counsel cholmes@energy.state.ca.us

Steve Adams Co-Staff Counsel sadams@energy.state.ca.us

Christopher Meyer
Project Manager
cmeyer@energy.state.ca.us

Jennifer Jennings Public Adviser publicadviser@energy.state.ca.us

^{*}indicates change

DECLARATION OF SERVICE

I, <u>Harriet Vletas</u>, declare that on <u>July 29</u>, 2010, I served and filed copies of the attached BNSF Comments Regarding Pre-Hearing Conference and for Consideration for Evidentiary Hearing, dated <u>July 29</u>, 2010. 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.govlsitingcasesIsolarone].

The documents have 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:

FOR SERVICE TO ALL OTHER PARTIES:

(Check all that Apply)

_x	sent electronically to all email addresses on the Proof of Service list;
	by personal delivery;
	by delivering on this date, for mailing with the United States Postal Service with first-class postage thereon fully prepaid, to the name and address of the person served, for mailing that same day in the ordinary course of business; that the envelope was sealed and placed for collection and mailing on that date to those addresses NOT marked "email preferred."
AND	
	FOR FILING WITH THE ENERGY COMMISSION:
x	sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below (<i>preferred method</i>);
OR	
	depositing in the mail an original and 12 paper copies, as follows:
	California Energy Commission Attn: Docket No. <u>08-AFC-13</u>

I declare under penalty of perjury that the foregoing is true and correct, that I am employed in the county where this mailing occurred, and that I am over the age of 18 years and not a party to the proceeding.

1516 Ninth Street, MS-4 Sacramento, CA 95814-5512 docket@energy.state.ca.us

HARRIET VLETAS