



7/21/2011

ENERGY

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**To: Lawrence Fleischer**

Director, Ergonomics and Safety  
BNSF Railway Company  
2650 Lou Menk Drive  
Fort Worth, TX 76131-2830

**Re: Glint and Glare Study Inputs**

Dear Lawrence,

As you know, POWER Engineers (“POWER”) is partnering with Dr. Jeffrey Hovis of the University of Waterloo to perform a comprehensive glint and glare analysis of the Calico Solar Project (“Project”) for Calico Solar, LLC (“Calico”). This study is being performed as part of Calico’s pending petition to amend the California Energy Commission’s (“CEC”) December 1, 2010 decision licensing the Project. The study is being done pursuant to POWER’s scope of work presented and discussed at the June 28 CEC workshop.

As part of the study’s analysis, POWER is developing a 3D computer model to determine the likely incidence and pattern of glint and glare from the Project that may be witnessed by observers along the BNSF Right-of-Way (ROW) and motorists on Interstate-40 (I-40). POWER is currently in the process of gathering critical inputs for this model.

At the June 28 CEC workshop, BNSF’s representative and consultant agreed to provide POWER with information, equipment and access, as necessary, to ensure the accuracy, completeness and utility of the model and the glint and glare analysis. POWER needs the following information to analyze potential visual impacts to the railroad:

- information regarding the type of locomotive that should be assumed for the purposes of modeling possible glint and glare effects on BNSF employees. Specifically, POWER would like to know what assumptions we should make regarding the height and position of the train engineer and crew. If BNSF is willing, POWER would be happy to perform an on-site inspection of a locomotive that has the same key characteristics as those that utilize the tracks running through the Project site;
- Engineering/survey information regarding the precise location, height and equipment specifications of all rail signals within the BNSF ROW that bisects the Project site;
- GPS data displaying the location and elevation of the center line of the railroad tracks leading up to and passing through the Project site;

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- information regarding the maintenance activities BNSF expects will be carried out within the BNSF ROW that bisects the Project site during construction and operation of Project, including the scheduling for regular maintenance activities throughout the year, the type of maintenance that is generally conducted and the anticipated location of BNSF employees within this portion of the BNSF ROW.

If you have any questions about the foregoing, please feel free to contact me. POWER remains committed to working closely with Dr. Hovis, BNSF, the CEC and the Calico team on performing a thorough and rigorous glint and glare analysis.

Best Wishes,

Jason Pfaff – Visualization Services Department Manager