



UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

DIVISION OF
CORPORATION FINANCE

December 28, 2012

Via U.S. mail:

Mr. James Nelson
Chief Executive Officer
Solar3D, Inc.
6500 Hollister Avenue, Suite 130
Goleta, CA 93117

**Re: Solar3D, Inc.
Form 10-K for the fiscal year ended December 31, 2011
Filed March 28, 2012
File No. 000-49805**

Dear Mr. Nelson:

We have limited our review to only your financial statements and related disclosures and do not intend to expand our review to other portions of your documents. In some of our comments, we may ask you to provide us with information so we may better understand your disclosure.

Please respond to this letter within ten business days by amending your filing or by advising us when you will provide the requested response. If you do not believe our comments apply to your facts and circumstances or do not believe an amendment is appropriate, please tell us why in your response.

After reviewing any amendment to your filing and the information you provide in response to these comments, we may have additional comments.

Form 10-K for the Fiscal Year Ended December 31, 2011

Report of Independent Registered Public Accounting Firm, page 13

1. We note your auditor attests to the periods December 31, 2011 and 2010. However, auditor association with amounts from inception included in annual financial statements is required as long as you are in the development stage. Please revise accordingly.

Mr. James Nelson
Solar3D, Inc.
December 28, 2012
Page 2

Please file all correspondence over EDGAR. We urge all persons who are responsible for the accuracy and adequacy of the disclosure in the filing to be certain that the filing includes the information the Securities Exchange Act of 1934 and all applicable Exchange Act rules require. Since the company and its management are in possession of all facts relating to a company's disclosure, they are responsible for the accuracy and adequacy of the disclosures they have made.

In responding to our comments, please provide a written statement from the company acknowledging that:

- the company is responsible for the adequacy and accuracy of the disclosure in the filing;
- staff comments or changes to disclosure in response to staff comments do not foreclose the Commission from taking any action with respect to the filing; and
- the company may not assert staff comments as a defense in any proceeding initiated by the Commission or any person under the federal securities laws of the United States.

You may contact Inessa Kessman, Senior Staff Accountant, at (202) 551-3371 or Ivette Leon, Assistant Chief Accountant, at (202) 551-3351 if you have questions regarding comments on the financial statements and related matters. Please contact me at (202) 551-3810 with any other questions.

Sincerely,

/s/ Terry French for

Larry Spigel
Assistant Director