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COVER SHEET

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To: Catharine H. Colwell, Mainland High School
From: Gary Lienesch, BP Solar
Date: February 27, 2001
Subject: Photovoltaic Awning Concept
Pages: 1, including this cover sheet.
Reference: Team Number 00-0060

To whom it may concern,

I have been corresponding by email with Ms. Catherine H. Colwell concerning her students' innovation of a Photovoltaic Awning. Their design is novel as it employs a method of ensuring the efficient collection of light energy by a standard BP Solar photovoltaic module, and has the bonus of beneficially managing the ingress of solar thermal energy through a building's windows.

This implementation of Building-Integrated Photovoltaics is an improvement over existing methods because it more efficiently uses the valuable photovoltaic resource. The majority of benefit is realized by adjusting the tilt only twice a year. This innovation uses a standard off-the-shelf photovoltaic product that keeps costs lower.

In my opinion, this innovation represents a low risk improvement and is feasible.

Sincerely,

A handwritten signature in black ink that reads "Gary W. Lienesch". The signature is written in a cursive, flowing style with a long horizontal stroke at the end.

Gary W Lienesch, Applications Engineer
BP Solar