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## ADDENDUM NO. 1

### TO INVITATION TO BID FOR THE INSTALLATION OF SOLAR THERMAL COLLECTORS

Date of Original Invitation to Bid August 25, 2010  
Date of this Addendum September 8, 2010  
Date of Bid Due September 15, 2010, 3pm CST

To: Bidders of Record

This Addendum may apply to any or all Contracts and Subcontracts. Unless otherwise specified or indicated on the attached Drawings, all work required by this Addendum shall comply with the Contract Documents.

Acknowledge receipt of this Addendum by recording the Addendum number and date of issue on the Bid Form. Failure to do so may subject bidder to disqualification.

### CHANGES TO SPECIFICATIONS

1. Section 23 21 13

a. Part 2.06 CHEMICAL TREATMENT

“B. Propylene Glycol. The propylene glycol solution shall be DOWFROST HD, or as approved by ENGINEER as industrial grade with corrosion inhibitors and environmental-stabilizer additives for mixing with water in systems indicated to contain antifreeze or glycol solutions.”

b. Part 3.08 CHEMICAL TREATMENT

“D. Furnish Systems indicated to have glycol solutions with the following concentrations diluted with deionized (DI) water:

1. Solar Glycol Heating Piping: 50% propylene glycol”

### CHANGES TO DRAWINGS

1. Sheet M5.1

a. "Pump Schedule" Pumps P1 & P2 : DELETE 'Model 2.5 AB' due to pressure rating limitation. Provide a 250 psi rated pump w/15 HP motor that meets or exceeds all other scheduled items. Clearly note any significant deviation from schedule that results from this change.

b. "Pump Schedule" Pumps P3 & P4: need not be 250 psi design. 150psi or above is acceptable.

## **Other Questions and Answers not addressed in the preceding Addendum**

*Question:* Specification section 24 01 00 Part 3.04 C mentions a factory representative for solar panel installation and start up. Was this service purchased with the panels?

*Answer:* Yes, the service is part of the purchase of the panels, but the actual scheduling of the visit is still to be determined.

*Question:* Is the pyranometer on Drawing M5.1 part of your package?

*Answer:* The pyranometer will be provided by others.

*Question:* Are nozzles, weld-o-let, thread-o-let, or tees allowable for piping fixtures, joints, and other connections?

*Answer:* Any type of connection made to existing pipe will be appropriate provided that the inner diameter and water pressure rating is not affected.

*Question:* Are Victaulic fittings acceptable?

*Answer:* No.

*Question:* Are equipment substitutions allowable?

*Answer:* Bidders are required to bid as specified, but minor alternates will be reviewed and are subject to approval at the OWNER's and ENGINEER's discretion.