



November 23, 2009

Mr. Peter C. Lowitt
Land Use Administrator/Director
Devens Enterprise Commission
33 Andrews Parkway
Devens, MA 01434

Subject: Redesign of Cooling Tower and Chiller Plants

Dear Mr. Lowitt,

At the request of the DEC please allow this letter to serve as a description of how Evergreen Solar will redesign the cooling tower system to ensure the fan speeds do not exceed 60% of their maximum running speed at any time during the year.

The cooling tower system as currently designed provides condenser water and therefore cooling for air conditioning, compressor operation and furnace cooling water. As with any cooling system, it works harder during the warmer summer months and operates at its maximum during summer days when the temperature and humidity levels are at their peak.

In general terms what we will implement is the cooling system will be modified to remove the furnace cooling water load from the cooling towers during the summer months. We will accomplish this by using other cooling sources within the plant (i.e. chillers) to provide the necessary cooling for our furnaces. By redirecting this load, the cooling towers will not have to work as hard resulting in lower fan speeds which will result in less noise being generated.

Evergreen Solar has contracted with an engineering firm to perform a redesign of the existing chilled water plant and cooling tower plant as follows:

- Increase summertime chilled water from 78 deg F to 85 deg F.
- Use excess capacity of one chiller to handle full furnace cooling water load in summer months.
- Re-pipe condenser and chilled water piping to allow changeover in summer months.
- Run 9 cooling tower fans at 60% maximum during summer design days of 77 deg F wet bulb.

The engineering company will provide detailed drawings, elevations, piping and instrument diagrams, major equipment schedules and specification for construction. The design will be completed in early December, 2009 and the piping work can be completed end January 2010.

Sincerely,

A handwritten signature in cursive script that reads "Carl Stegerwald".

Carl Stegerwald
V.P. of Construction and Facilities
Evergreen Solar Inc.