



June 22, 2009

Peter Lowitt
Devens Enterprise Commission
33 Andrews Parkway,
Devens, MA 01434

RE: Evergreen Solar Update – Noise Compliance

Dear Mr. Lowitt:

As discussed and agreed at the May 7 open meeting of the Devens Enterprise Commission (the “DEC”), Evergreen Solar would provide updates on the activities to reduce the noise level heard by the neighboring area. Over the past week the following actions have been taken:

- Process Gas deliveries; the long term solution, ground mounted pumps, is in process. The vendor is actively pursuing the procurement of parts/materials and any potential opportunities to expedite. The short term solution has also been finalized. A temporary wall structure made of scaffolding will be constructed with sound proof material. The engineering process has started and approval drawings should be received by Wednesday June 24th. The target date is to have the structure complete on June 30th.
- Thermal Oxidizer blowers; the process blower enclosures have been structurally completed with positive results. There is a 10 dBA difference from inside to outside the enclosure without any sound proof material. The sound material should arrive this week and be installed by June 30th. The vendor of the permanent enclosures for the combustion blowers is working on expediting the original delivery date of July 17th. They believe they can improve on this but have not provided a new date at this time.
- Oxidizer (ASX) exhausts; the purchase order for the exhaust stack attenuators were placed on June 17th. The vendor is working on expediting the original quoted lead time of 6-8 weeks. They believe they can improve on this but have not provided a firm delivery date at this time. August 21st is still the target date at this time.
- Cooling Tower Intake; the intake attenuators have been ordered. The vendor is working on expediting the delivery date. The target completion date is still September 4th at this time.
- Cooling Tower Discharge; the revised mitigation proposal by the vendor was not satisfactory based on data provided and inserted into the model. To help

the vendor determine a custom solution an experiment was formed. The data from the experiment indicated that having all 9 cooling towers share the load, we could reduce the noise levels. The sequence of operations was changed and all 9 towers are now running but at slower speeds. Data shows that the cooling towers will not exceed compliance levels when running under 80% fan speed. Analysis is under way to determine what conditions would require the fans to run above 80% and what noise control mitigation is needed.

- An additional Acoustical Consulting firm has been engaged and is currently reviewing pertinent data. The firm will review data collected to date, review report recommendations, review actions taken and future plans, and make additional recommendations where necessary.
- Accomplishments to date;
 - Replaced faulty VOC combustion blower motor. Early April
 - Wrapped all VOC combustion blowers with temporary sound material. Early April
 - Compressor room overhead door is now kept closed at all times. (When it is required to be open the time frame is minimized) Early April
 - Door alarms have been disabled. Mid April
 - Process gas deliveries have been limited to between the hours of 8am and 4pm. Mid April
 - Facility Noise Report data collected Mid- End of May.
 - Facility Noise Report delivered on June 1st.
 - Developed action plan for tier 1 noise sources identified in June 1 'Facility Noise Analysis' report June 5th
 - Purchase Order has been placed with vendor for process gas delivery ground mounted pumps. June 9th
 - Changed the Sequence of Operations for our Cooling Towers to share the load across all 9 cells as a short term solution. June 12th
 - Purchase Order placed with vendor for ASX exhaust stack attenuators. June 17th
 - Purchase Order placed with vendor for VOC combustion blower enclosures. June 17th
 - Collected additional sound level data to help determine the exact needs of the Cooling Tower discharge fan mitigation. (Modeling Specialties indicated that the first 2 solutions offered by the vendor would not bring us into compliance.) June 17th
 - Purchase Order has been placed for CT intake attenuator for phase 1, cell 5 cooling tower. June 18th
 - Constructed 3 custom enclosures for the VOC process blowers. June 18th



- Identified short term solution for process gas deliveries, temporary scaffolding wall. June 19th

Sincerely,
Brian LaValley

CC:

Carl Stegerwald - Evergreen Solar
Christian Ehrbar - Evergreen Solar
Phil McRae - Evergreen Solar
Pete Hosford - Evergreen Solar
Wayne Wirtanen – Evergreen Solar
Tom Cusson – MA DEP