

MEMO

TO: Melissa Schmit
FROM: Eddie Duncan, INCE Bd. Cert.
CC: Brie Anderson
DATE: October 26, 2018
SUBJECT: Crocker Wind Farm, LLC – Effect of Turbine Shifting on Sound Analysis

On August 2, 2018, we issued an addendum to the Sound Level Assessment for Crocker Wind Farm that included an updated turbine layout and the proposed turbine, GE 2.7-116 LNTE with a turbine output of 2.7 MW and a hub height of 90 meters. On September 20, 2018, we issued a memorandum reporting the effect of shifting the location of nine turbines. Two of the turbines that were shifted in the September 20 memorandum have shifted again:

- Turbine 155 – 36 feet southeast of the permitted location
- Turbine 186 – 88 feet northwest of the permitted location

We updated the sound propagation model to reflect these minor shifts in turbine locations, and the results are the same as the results reported in the addendum prepared on August 2, 2018. None of the residential receivers resulted in a change in sound level as a result of the turbine shifts.

As such, the conclusions from the August 2 addendum hold true, and those conclusions are:

1. Projected sound levels from the project are 50 dBA or less at all residences, 41 dBA or less at all non-participating residences, and the average sound level (Leq) across all residences is 32 dBA.
2. These projected sound levels meet the Clark County sound level limit of 50 dBA equivalent continuous sound pressure level (Leq) at residences and the condition limits in the PUC Order which are:
 - a. 45 dBA, long-term average sound pressure level (equivalent continuous sound level, Leq), at non-participating residences; and
 - b. 50 dBA, long-term average sound pressure level (equivalent continuous sound level, Leq), at participating residences.