

June 4, 2015

Mr. Douglas Fine, Assistant Commissioner
 Department of Environmental Protection
 One Winter Street, Boston, MA 02108

Reference: Kingston Wind Independence Turbine Acoustical Monitoring Study
 Technical Report, HMMH Report No. 305270.001, April 16, 2015, Draft for Public Comment

Response: Part 2 (of 10); Electric Power Output vs Sound Power Level

Dear Assistant Commissioner Fine,

The KWI Technical Report (KWI-TR) established KWI exceeds the MassDEP noise policy. Part 1 showed that there is no need for hub-height wind speed. HMMH's Figure 1 for electric power output and Figure 2 for sound power level were plotted on one graph.

Sound power level (log y-axis)

Electric power output (log x-axis)

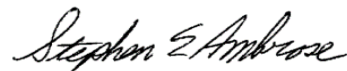
A "line of best fit" was drawn through all data points with a straight line.

KWI sound power level is determined from electric power output.

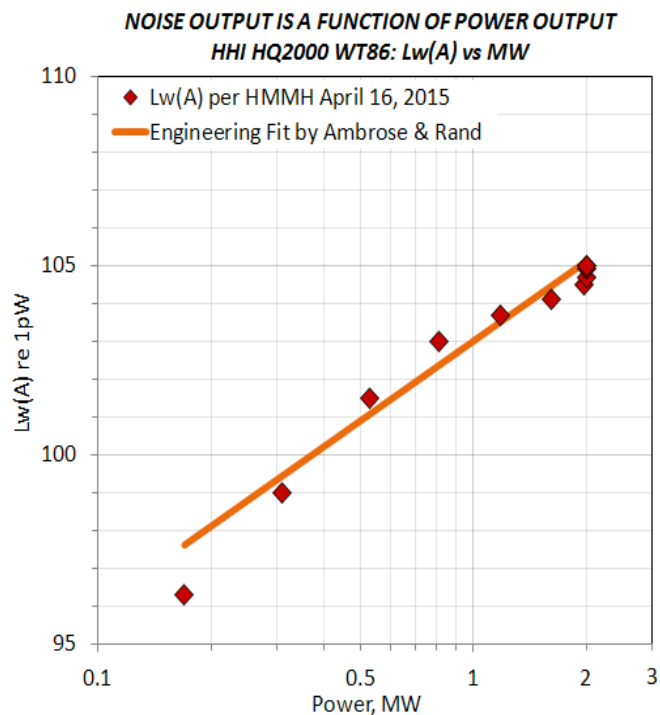
<u>data point</u> ♦	<u>equation</u>
0.3 MW = 99 dBA	99.3 dBA
0.5 MW = 101 dBA	100.9 dBA
0.8 MW = 103 dBA	102.3 dBA
2.0 MW = 105 dBA	105.1 dBA

The chart and equation simplifies predicting KWI sound power levels. The assessment methodology used by HMMH, MassCEC and MassDEP is unreasonably complex, confusing and convoluted.

Respectfully submitted,



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 Principal Consultant



Good Engineering Fit: $Lw(A) = 7\log(MW) + 103$, dB(A) re 1pW
 Accuracy: ± 0.6 dB, 300 to 2000 KW

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Provided technical support and graphic contributions.

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