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Noise Emissions Evaluation for Clipper Liberty 2.5 MW Wind Turbine, Measured in Medicine Bow, Wyoming, November, 2006

Overall Effective A-Weighted Sound Power Level (LWA):

103 dB re 10⁻¹² W at 8 m/s reference wind speed 10 meters above ground elevation

1/3-Octave Spectrum at reference wind conditions:

Frequency Hz	8 m/s LWA dB
6.3	40.2
8	47.1
10	53.3
12.5	59.4
16	64.5
20	69.3
25	73.2
31.5	76.4
40	79.2
50	80.7
63	82.8
80	84.7
100	86.4
125	87.4
160	88.6
200	89.3
250	90.7
315	92.0
400	94.8
500	92.7
630	92.1
800	91.4
1000	93.7
1250	90.0
1600	89.1
2000	88.5
2500	86.6
3150	83.2
4000	80.8
5000	76.9
6300	73.0
8000	70.5
10000	63.4
12500	55.8
16000	50.3
20000	43.8

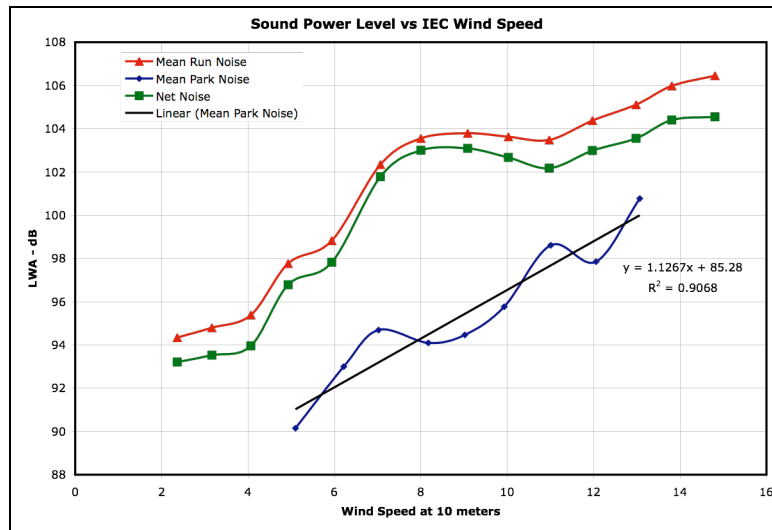


Figure 1. Noise vs Wind Speed Curve

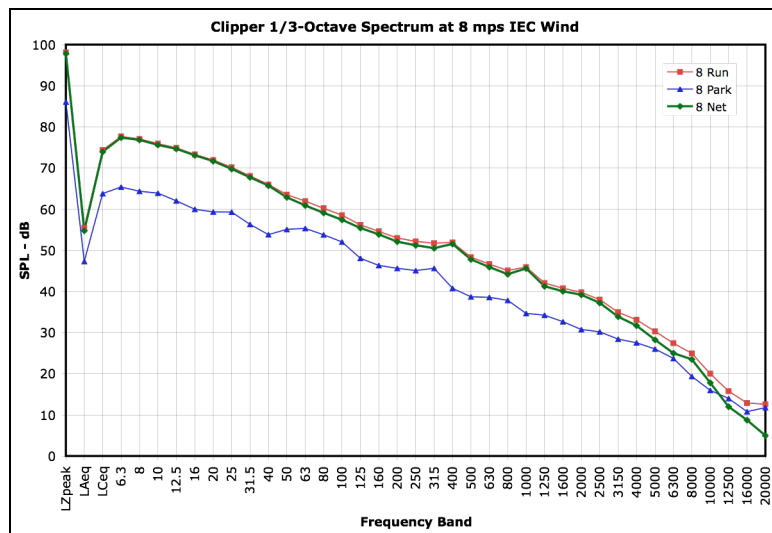


Figure 2. 1/3-Octave Frequency Spectrum Measured 398 ft. Downwind at 8 m/s Ref. Wind Speed

Bruce Walker

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