

Project:

CompetitiveEnergyFinal

Description:

GE 1.5sle - 104.0 dB(A)

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Licensed user:

Renewable Energy Research Lab, University of Massachusetts  
160 Governors Drive  
US-AMHURST, MA 01003  
2969

Calculated:

10/17/2006 4:26 PM/2.4.0.57

**DECIBEL - Detailed results**

Calculation: GE 1.5sle - 104.0 dB(A)

**Calculation Results****Noise sensitive area: A Phil Bloomstein 98 Deer Hill Rd****WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	1,124	1,133	34.3	Yes	29.02	104.0	3.01	72.08	2.15	3.75	0.00	0.00	77.99	0.00
2	528	541	36.6	Yes	37.89	104.0	3.00	65.66	1.03	2.42	0.00	0.00	69.11	0.00
3	329	345	37.3	Yes	43.62	104.0	2.98	61.77	0.66	0.94	0.00	0.00	63.36	0.00
Sum	44.76													

**Noise sensitive area: B Robert Gerrish 35 Deer Hill Rd****WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	1,060	1,068	38.9	Yes	29.86	104.0	3.01	71.57	2.03	3.54	0.00	0.00	77.14	0.00
2	470	481	41.4	Yes	39.67	104.0	3.00	64.65	0.91	1.77	0.00	0.00	67.33	0.00
3	408	419	38.3	Yes	41.20	104.0	2.99	63.44	0.80	1.56	0.00	0.00	65.79	0.00
Sum	43.70													

**Noise sensitive area: C Jeff Keating 166 Sibley Rd****WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	834	842	41.5	Yes	32.81	104.0	3.01	69.51	1.60	3.09	0.00	0.00	74.20	0.00
2	483	492	41.0	Yes	39.36	104.0	3.00	64.83	0.93	1.87	0.00	0.00	67.63	0.00
3	641	646	40.0	Yes	35.93	104.0	3.00	67.20	1.23	2.64	0.00	0.00	71.07	0.00
Sum	41.60													

**Noise sensitive area: D Steve Bennett 130 Sibley Rd****WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	1,146	1,154	38.5	Yes	28.92	104.0	3.01	72.25	2.19	3.65	0.00	0.00	78.09	0.00
2	921	928	37.7	Yes	31.51	104.0	3.01	70.35	1.76	3.39	0.00	0.00	75.50	0.00
3	1,078	1,083	35.6	Yes	29.60	104.0	3.01	71.69	2.06	3.66	0.00	0.00	77.41	0.00
Sum	34.92													

**Noise sensitive area: E Avia Haven 418 N. Palermo Rd****WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	2,147	2,154	56.2	Yes	21.34	104.0	3.01	77.67	4.09	3.91	0.00	0.00	85.66	0.00
2	2,220	2,225	49.3	Yes	20.80	104.0	3.01	77.95	4.23	4.04	0.00	0.00	86.21	0.00
3	2,420	2,424	43.0	Yes	19.52	104.0	3.01	78.69	4.61	4.19	0.00	0.00	87.49	0.00
Sum	25.39													

**Noise sensitive area: F Carrie & Steve Bennett 62 Bennett Lane****WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	871	881	41.1	Yes	32.25	104.0	3.01	69.90	1.67	3.18	0.00	0.00	74.75	0.00
2	967	973	33.7	Yes	30.79	104.0	3.01	70.76	1.85	3.60	0.00	0.00	76.21	0.00
3	1,192	1,196	29.7	Yes	28.24	104.0	3.01	72.56	2.27	3.94	0.00	0.00	78.77	0.00
Sum	35.50													

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Calculation: GE 1.5sle - 104.0 dB(A)

**Noise sensitive area: G Bill Pickford 132 Goosepecker Ridge****WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	2,416	2,420	86.5	Yes	20.16	104.0	3.01	78.68	4.60	3.58	0.00	0.00	86.85	0.00
2	2,128	2,131	74.3	Yes	21.78	104.0	3.01	77.57	4.05	3.61	0.00	0.00	85.23	0.00
3	1,920	1,923	75.9	Yes	23.23	104.0	3.01	76.68	3.65	3.45	0.00	0.00	83.78	0.00

Sum 26.67

**Noise sensitive area: H Lyn Hadnyack 200 Beaver Ridge Road****WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	1,727	1,730	39.1	Yes	23.94	104.0	3.01	75.76	3.29	4.02	0.00	0.00	83.07	0.00
2	2,329	2,330			20.06	104.0	3.01	78.35	4.43	4.18	0.00	0.00	86.95	0.00
3	2,527	2,528			18.93	104.0	3.01	79.06	4.80	4.22	0.00	0.00	88.08	0.00

Sum 26.31

**Noise sensitive area: I Reed & Heidi Brugger 15 Deer Hill Rd****WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	1,824	1,834	48.1	Yes	23.36	104.0	3.01	76.27	3.48	3.90	0.00	0.00	83.65	0.00
2	1,263	1,274	40.7	Yes	27.79	104.0	3.01	73.10	2.42	3.70	0.00	0.00	79.22	0.00
3	1,033	1,044	47.7	Yes	30.42	104.0	3.01	71.38	1.98	3.22	0.00	0.00	76.58	0.00

Sum 32.83

**Noise sensitive area: J David & Maryan Bennett 24 Bennett Lane****WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	966	974	39.7	Yes	31.00	104.0	3.01	70.77	1.85	3.39	0.00	0.00	76.01	0.00
2	832	838	39.0	Yes	32.76	104.0	3.01	69.47	1.59	3.18	0.00	0.00	74.24	0.00
3	1,023	1,026	36.3	Yes	30.26	104.0	3.01	71.22	1.95	3.58	0.00	0.00	76.75	0.00

Sum 36.24

**Noise sensitive area: K Mathew Asrienne Benneett****WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	989	998	42.2	Yes	30.79	104.0	3.01	70.98	1.90	3.34	0.00	0.00	76.22	0.00
2	1,064	1,070	34.2	Yes	29.69	104.0	3.01	71.59	2.03	3.70	0.00	0.00	77.32	0.00
3	1,284	1,288	29.9	Yes	27.36	104.0	3.01	73.20	2.45	4.00	0.00	0.00	79.65	0.00

Sum 34.27

**Noise sensitive area: L Robert and Jean Clark****WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	951	958	41.2	Yes	31.24	104.0	3.01	70.63	1.82	3.31	0.00	0.00	75.76	0.00
2	684	691	40.7	Yes	35.16	104.0	3.00	67.79	1.31	2.74	0.00	0.00	71.84	0.00
3	847	851	39.1	Yes	32.58	104.0	3.01	69.60	1.62	3.20	0.00	0.00	74.42	0.00

Sum 38.08

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**Noise sensitive area: M Property Boundary D**

**WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	114	139	34.3	Yes	52.70	104.0	2.83	53.87	0.26	0.00	0.00	0.00	54.14	0.00
2	499	502	41.1	Yes	39.10	104.0	3.00	65.02	0.95	1.92	0.00	0.00	67.89	0.00
3	689	690	41.1	Yes	35.19	104.0	3.00	67.78	1.31	2.72	0.00	0.00	71.81	0.00
Sum	52.96													

**Noise sensitive area: N Property Boundary C**

**WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	486	495	42.7	Yes	39.40	104.0	3.00	64.89	0.94	1.76	0.00	0.00	67.59	0.00
2	124	141	37.0	Yes	52.61	104.0	2.85	53.98	0.27	0.00	0.00	0.00	54.24	0.00
3	353	357	42.4	Yes	43.68	104.0	2.98	62.06	0.68	0.56	0.00	0.00	63.30	0.00
Sum	53.31													

**Noise sensitive area: O Property Boundary A**

**WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	735	743	40.5	Yes	34.28	104.0	3.00	68.41	1.41	2.90	0.00	0.00	72.73	0.00
2	130	154	36.5	Yes	51.83	104.0	2.86	54.74	0.29	0.00	0.00	0.00	55.04	0.00
3	147	163	37.9	Yes	51.34	104.0	2.89	55.24	0.31	0.00	0.00	0.00	55.55	0.00
Sum	54.64													

**Noise sensitive area: P Property Boundary B**

**WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	798	805	41.0	Yes	33.32	104.0	3.00	69.12	1.53	3.03	0.00	0.00	73.68	0.00
2	193	211	39.9	Yes	49.06	104.0	2.93	57.47	0.40	0.00	0.00	0.00	57.87	0.00
3	135	154	37.0	Yes	51.86	104.0	2.87	54.72	0.29	0.00	0.00	0.00	55.02	0.00
Sum	53.73													