

Project:

Perzow

Printed/Page

2015-11-10 09:20 / 1

Licensed user:

WSB Parki Wiatrowe Sp. z o.o.

ul. Tadeusza Mikulskiego 5

PL-52 420 Wroclaw

+48 796537212

Maciej Nawrotek / m.nawrotek@wsb-parkiwiatrowe.pl

Calculated:

2015-11-10 09:19/2.9.269

DECIBEL - Main Result

Calculation: Perzow

Noise calculation model:

ISO 9613-2 Poland

Wind speed:

Loudest up to 95% rated power

Ground attenuation:

General, Ground factor: 0,0

Meteorological coefficient, C0:

0,0 dB

Type of demand in calculation:

1: WTG noise is compared to demand (DK, DE, SE, NL etc.)

Noise values in calculation:

All noise values are mean values (Lwa) (Normal)

Pure tones:

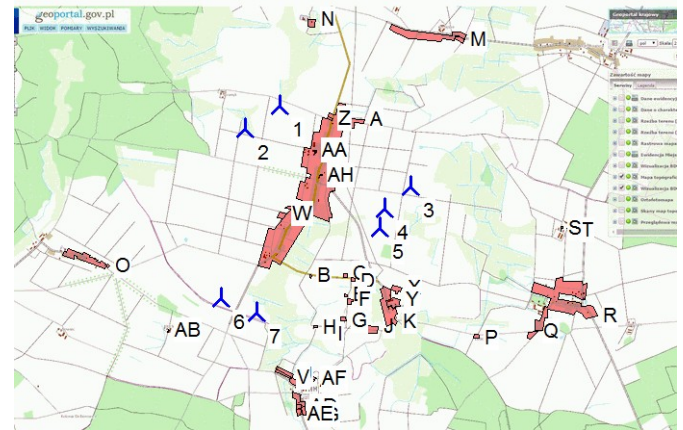
Pure and impulse tone penalty are added to WTG source noise

Height above ground level, when no value in NSA object:

4,0 m Allow override of model height with height from NSA object

Deviation from "official" noise demands. Negative is more restrictive, positive is less restrictive.:

0,0 dB(A)



New WTG

Scale 1:125 000
Noise sensitive area

WTGs

Geo DMS: WGS 84				WTG type				Noise data				Wind speed [m/s]	Status	LwA,ref [dB(A)]	Pure tones
Longitude	Latitude	Z [m]	Row data/Description	Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Creator	Name				
1 17°47'36,49" East	51°13'38,00" North	170,3	TRE_56	No	REpower	3.2M114-3 200	3 200	114,0	110,0	EMD	Level 0 - Guaranteed - Sound power level - 07-2013	6,0	User value	107,5	0 dB h
2 17°47'06,89" East	51°13'25,23" North	170,0	TRE_41	No	REpower	3.2M114-3 200	3 200	114,0	110,0	EMD	Level 0 - Guaranteed - Sound power level - 07-2013	6,0	User value	107,5	0 dB h
3 17°49'29,06" East	51°12'56,21" North	175,0	TRE_747/1W	No	REpower	3.2M114-3 200	3 200	114,0	110,0	EMD	Level 0 - Guaranteed - Sound power level - 07-2013	6,0	User value	107,5	0 dB h
4 17°49'06,99" East	51°12'43,83" North	173,2	TRE_513	No	REpower	3.2M114-3 200	3 200	114,0	110,0	EMD	Level 0 - Guaranteed - Sound power level - 07-2013	6,0	User value	107,5	0 dB h
5 17°49'03,36" East	51°12'33,46" North	174,6	TRE_517	No	REpower	3.2M114-3 200	3 200	114,0	110,0	EMD	Level 0 - Guaranteed - Sound power level - 07-2013	6,0	User value	107,5	0 dB h
6 17°46'49,40" East	51°11'54,67" North	175,0	TRE_303	No	REpower	3.2M114-3 200	3 200	114,0	110,0	EMD	Level 0 - Guaranteed - Sound power level - 07-2013	6,0	User value	107,5	0 dB h
7 17°47'19,73" East	51°11'47,47" North	170,0	TRE_333	No	REpower	3.2M114-3 200	3 200	114,0	110,0	EMD	Level 0 - Guaranteed - Sound power level - 07-2013	6,0	User value	107,5	0 dB h

h) Generic octave distribution used

Calculation Results

Sound Level

Noise sensitive area		Geo DMS: WGS 84			Demands		Sound Level		Demands fulfilled ?	
No.	Name	Longitude	Latitude	Z [m]	Imission height [m]	Noise [dB(A)]	From WTGs [dB(A)]	Distance to noise demand [m]	Noise	Noise
A	trebaczow1	17°48'22,64" East	51°12'41,04" North	177,0	4,0	45,0	42,7	207	Yes	
B	zbyczyna10	17°48'03,99" East	51°12'06,56" North	171,9	4,0	45,0	40,0	558	Yes	
C	zbyczyna11	17°48'36,27" East	51°12'09,18" North	172,7	4,0	45,0	40,8	391	Yes	
D	zbyczyna12	17°48'43,03" East	51°12'06,85" North	171,4	4,0	45,0	40,7	390	Yes	
E	zbyczyna9	17°48'33,95" East	51°11'58,12" North	170,0	4,0	45,0	38,9	709	Yes	
F	zbyczyna8	17°48'36,57" East	51°11'55,59" North	170,0	4,0	45,0	38,5	759	Yes	
G	zbyczyna7	17°48'31,09" East	51°11'45,83" North	170,0	4,0	45,0	37,6	915	Yes	
H	zbyczyna6	17°48'08,40" East	51°11'41,27" North	170,0	4,0	45,0	39,3	493	Yes	
I	zbyczyna5	17°48'22,24" East	51°11'38,32" North	170,0	4,0	45,0	37,5	775	Yes	
J	zbyczyna4	17°48'51,36" East	51°11'41,70" North	170,0	4,0	45,0	36,4	1 096	Yes	
K	zbyczyna1	17°49'07,22" East	51°12'02,73" North	170,0	4,0	45,0	40,1	430	Yes	
L	domaslow	17°49'08,54" East	51°14'19,96" North	172,8	4,0	45,0	32,5	1 743	Yes	
M	domaslow szczescie	17°50'04,24" East	51°14'15,38" North	170,5	4,0	40,0	31,0	1 645	Yes	
N	domaslow2	17°47'58,90" East	51°14'20,60" North	170,0	4,0	45,0	35,4	921	Yes	
O	dziadowa kłoda gronowice	17°45'13,35" East	51°12'11,07" North	172,8	4,0	40,0	32,5	1 109	Yes	
P	rychtal4	17°50'25,58" East	51°11'38,05" North	171,5	4,0	45,0	32,1	1 788	Yes	
Q	rychtalmn	17°51'11,48" East	51°11'39,67" North	175,0	4,0	40,0	29,6	1 932	Yes	
R	rychtal1	17°51'15,42" East	51°12'06,34" North	175,0	4,0	45,0	31,0	2 024	Yes	
S	rychtal2	17°51'37,59" East	51°12'36,19" North	180,0	4,0	45,0	30,4	2 063	Yes	
T	rychtal3	17°51'42,89" East	51°12'35,44" North	180,0	4,0	45,0	30,0	2 169	Yes	
U	namyslow brzezinka	17°47'38,09" East	51°11'18,96" North	170,2	4,0	40,0	38,9	107	Yes	
V	namyslow2	17°47'37,38" East	51°11'17,53" North	170,7	4,0	45,0	38,6	514	Yes	
W	trebaczow2	17°47'43,66" East	51°12'40,62" North	175,0	4,0	45,0	39,2	961	Yes	
X	zbyczyna2	17°49'14,83" East	51°12'03,45" North	172,1	4,0	45,0	40,1	427	Yes	
Y	zbyczyna3	17°49'16,38" East	51°11'56,73" North	170,7	4,0	45,0	38,4	636	Yes	
Z	mieszkalno uslugowa trebaczow	17°48'17,09" East	51°13'31,81" North	175,0	4,0	45,0	41,1	332	Yes	

To be continued on next page...

Project:

Perzow

Printed/Page

2015-11-10 09:20 / 2

Licensed user:

WSB Parki Wiatrowe Sp. z o.o.

ul. Tadeusza Mikulskiego 5

PL-52 420 Wroclaw

+48 796537212

Maciej Nawrotek / m.nawrotek@wsb-parkiwiatrowe.pl

Calculated:

2015-11-10 09:19/2.9.269

DECIBEL - Main Result**Calculation:** Perzow

...continued from previous page

Noise sensitive area		Geo DMS: WGS 84		Z	Imission height	Demands Noise	Sound Level		Demands fulfilled ?
No.	Name	Longitude	Latitude				From WTGs	Distance to noise demand	
				[m]	[m]	[dB(A)]	[dB(A)]	[m]	Noise
AA	Szkola podstawowa trebaczow	17°48'06,69" East	51°13'14,71" North	180,0	4,0	50,0	41,1	668	Yes
AB	Dz.Kloda zag rolna	17°46'05,41" East	51°11'37,39" North	175,0	4,0	45,0	38,3	535	Yes
AC	Brzezinka Mr zagr 1	17°48'04,81" East	51°11'13,42" North	170,0	4,0	45,0	35,8	900	Yes
AD	Brzezinka Mr zagr 2	17°47'51,12" East	51°11'05,48" North	171,0	4,0	45,0	35,3	961	Yes
AE	Brzezinka Mr zagr 3	17°47'54,70" East	51°10'56,23" North	171,2	4,0	45,0	33,6	1 250	Yes
AF	Brzezinka Mn jedno1	17°47'49,88" East	51°11'12,61" North	170,5	4,0	40,0	36,7	386	Yes
AG	Brzezinka Mn jedno3	17°47'55,20" East	51°10'58,60" North	170,8	4,0	40,0	34,0	818	Yes
AH	przedszkole	17°48'13,16" East	51°13'01,11" North	176,6	4,0	50,0	40,7	870	Yes

Distances (m)

WTG							
NSA	1	2	3	4	5	6	7
A	702	1031	1248	865	817	816	754
B	2819	2621	2190	1616	1358	1494	1042
C	2956	2884	1778	1226	916	2048	1547
D	3071	3018	1768	1234	912	2166	1644
E	3282	3179	2064	1532	1210	2031	1470
F	3373	3272	2092	1575	1249	2079	1499
G	3625	3480	2410	1893	1568	1993	1387
H	3660	3428	2763	2215	1902	1589	964
I	3804	3613	2711	2183	1861	1872	1246
J	3877	3782	2368	1933	1609	2316	1698
K	3431	3455	1700	1270	953	2631	2058
L	2207	2904	2430	2842	3169	5240	5158
M	3091	3774	2515	3028	3350	5763	5576
N	1387	1987	3071	3218	3494	4707	4793
O	3865	3180	5156	4647	4519	1933	2560
P	4952	5085	2653	2542	2341	4219	3609
Q	5549	5761	3090	3126	2992	5110	4507
R	5107	5406	2577	2749	2697	5136	4563
S	5055	5469	2571	2933	2992	5724	5207
T	5158	5574	2676	3037	3098	5836	5320
U	4297	3949	3667	3122	2808	1453	951
V	4341	3991	3718	3174	2859	1478	987
W	1755	1490	2102	1621	1563	1625	1604
X	3490	3543	1654	1257	954	2805	2249
Y	3662	3670	1855	1467	1163	2728	2152
Z	811	1378	1697	1703	1952	3451	3410
AA	928	1205	1660	1459	1628	2845	2794
AB	4126	3540	4644	4080	3865	1008	1476
AC	4502	4226	3567	3044	2721	1930	1369
AD	4722	4404	3887	3359	3037	1936	1434
AE	5000	4695	4092	3569	3246	2207	1723
AF	4450	4176	3523	2993	2672	1746	1226
AG	4937	4628	4029	3506	3183	2153	1660
AH	1303	1444	1481	1173	1296	2597	2486