

Project:

101001 LCA noise senok

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Suzlon Energy A/S

Bredskifte Alle 13

DK-8210 Århus V

+45 8943 8714

Livio Casella / livio.casella@suzlon.com

Calculated:

04/10/2010 09:56/2.7.473

DECIBEL - Main Result**Calculation:** Alternative S88 V3**Noise calculation model:**

ISO 9613-2 General

Wind speed:

8.0 m/s

Ground attenuation:

None

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:

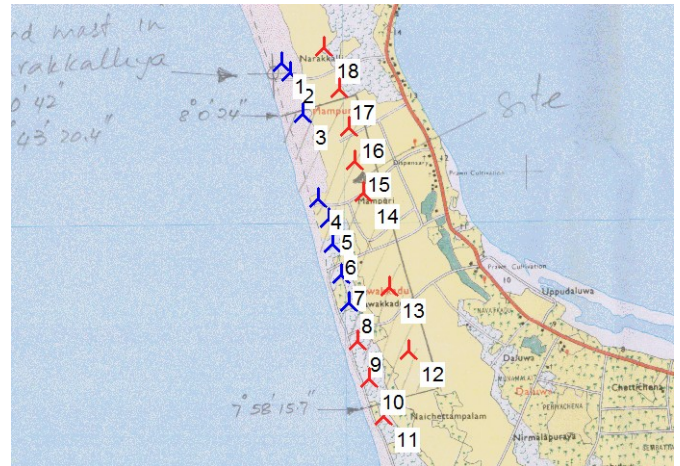
Pure and Impulse tone penalty are added to WTG source noise

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

2.0 m Don't 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)



Scale 1:100,000

New WTG

Noise sensitive area

WTGs

UTM WGS84 Zone: 44				WTG type				Noise data												
East				North	Z	Row data/Description	Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Creator	Name	Wind speed	Status	Hub height	LwA_ref	Pure tones	Octave data
UTM WGS84 Zone: 44				[m]						[kW]	[m]	[m]			[m/s]		[m]	[dB(A)]		
1	359,030	886,014	4.0	Suzlon S64 1250 64.0 IOI hub: ...	Yes	Suzlon	S64-1,250	1,250	64.0	74.0	USER	Runtime input	8.0	User value	74.0	104.2	0 dB	No	*)	
2	359,152	885,885	4.3	Suzlon S64 1250 64.0 IOI hub: ...	Yes	Suzlon	S64-1,250	1,250	64.0	74.0	USER	Runtime input	8.0	User value	74.0	104.2	0 dB	No	*)	
3	359,307	885,332	5.0	Suzlon S64 1250 64.0 IOI hub: ...	Yes	Suzlon	S64-1,250	1,250	64.0	74.0	USER	Runtime input	8.0	User value	74.0	104.2	0 dB	No	*)	
4	359,502	884,220	1.1	Suzlon S64 1250 64.0 IOI hub: ...	Yes	Suzlon	S64-1,250	1,250	64.0	74.0	USER	Runtime input	8.0	User value	74.0	104.2	0 dB	No	*)	
5	359,637	883,948	5.0	Suzlon S64 1250 64.0 IOI hub: ...	Yes	Suzlon	S64-1,250	1,250	64.0	74.0	USER	Runtime input	8.0	User value	74.0	104.2	0 dB	No	*)	
6	359,684	883,616	2.5	Suzlon S64 1250 64.0 IOI hub: ...	Yes	Suzlon	S64-1,250	1,250	64.0	74.0	USER	Runtime input	8.0	User value	74.0	104.2	0 dB	No	*)	
7	359,787	883,205	4.1	Suzlon S64 1250 64.0 IOI hub: ...	Yes	Suzlon	S64-1,250	1,250	64.0	74.0	USER	Runtime input	8.0	User value	74.0	104.2	0 dB	No	*)	
8	359,891	882,839	5.0	Suzlon S64 1250 64.0 IOI hub: ...	Yes	Suzlon	S64-1,250	1,250	64.0	74.0	USER	Runtime input	8.0	User value	74.0	104.2	0 dB	No	*)	
9	359,998	882,332	1.8	Suzlon S88 2100 88.0 IOI hub: ...	Yes	Suzlon	S88-2,100	2,100	88.0	79.0	USER	WD 90022 S88 V3	8.0	User value	79.0	103.6	0 dB	No	*)	
10	360,145	881,840	1.7	Suzlon S88 2100 88.0 IOI hub: ...	Yes	Suzlon	S88-2,100	2,100	88.0	79.0	USER	WD 90022 S88 V3	8.0	User value	79.0	103.6	0 dB	No	*)	
11	360,321	881,344	4.6	Suzlon S88 2100 88.0 IOI hub: ...	Yes	Suzlon	S88-2,100	2,100	88.0	79.0	USER	WD 90022 S88 V3	8.0	User value	79.0	103.6	0 dB	No	*)	
12	360,671	882,199	5.0	Suzlon S88 2100 88.0 IOI hub: ...	Yes	Suzlon	S88-2,100	2,100	88.0	79.0	USER	WD 90022 S88 V3	8.0	User value	79.0	103.6	0 dB	No	*)	
13	360,419	883,043	5.0	Suzlon S88 2100 88.0 IOI hub: ...	Yes	Suzlon	S88-2,100	2,100	88.0	79.0	USER	WD 90022 S88 V3	8.0	User value	79.0	103.6	0 dB	No	*)	
14	360,092	884,282	7.0	Suzlon S88 2100 88.0 IOI hub: ...	Yes	Suzlon	S88-2,100	2,100	88.0	79.0	USER	WD 90022 S88 V3	8.0	User value	79.0	103.6	0 dB	No	*)	
15	359,983	884,710	5.0	Suzlon S88 2100 88.0 IOI hub: ...	Yes	Suzlon	S88-2,100	2,100	88.0	79.0	USER	WD 90022 S88 V3	8.0	User value	79.0	103.6	0 dB	No	*)	
16	359,909	885,148	8.0	Suzlon S88 2100 88.0 IOI hub: ...	Yes	Suzlon	S88-2,100	2,100	88.0	79.0	USER	WD 90022 S88 V3	8.0	User value	79.0	103.6	0 dB	No	*)	
17	359,789	885,666	5.0	Suzlon S88 2100 88.0 IOI hub: ...	Yes	Suzlon	S88-2,100	2,100	88.0	79.0	USER	WD 90022 S88 V3	8.0	User value	79.0	103.6	0 dB	No	*)	
18	359,595	886,208	5.0	Suzlon S88 2100 88.0 IOI hub: ...	Yes	Suzlon	S88-2,100	2,100	88.0	79.0	USER	WD 90022 S88 V3	8.0	User value	79.0	103.6	0 dB	No	*)	

*)Notice: One or more noise data for this WTG is generic or input by user

Calculation Results**Sound Level**

Noise sensitive area		UTM WGS84 Zone: 44			Demands		Sound Level	Demands fulfilled ?	
No.	Name	East	North	Z	Imission height [m]	Noise [dB(A)]	From WTGs [dB(A)]	Noise	
	A Receptor-1	359,084	885,713	1.2	2.0	0.0	52.2	No	
	B Receptor-2	359,242	885,590	5.0	2.0	0.0	50.9	No	
	C Receptor-3	359,226	885,310	3.2	2.0	0.0	55.5	No	
	D Receptor-4	359,195	885,302	2.3	2.0	0.0	53.8	No	
	E Receptor-5	359,309	885,189	1.7	2.0	0.0	52.6	No	
	F Receptor-6	359,336	885,128	3.4	2.0	-1.0	50.6	No	
	G Receptor-7	359,354	884,982	2.9	2.0	0.0	48.0	No	
	H Receptor-8	359,492	884,412	2.7	2.0	0.0	51.4	No	
	I Receptor-9	359,464	884,365	2.0	2.0	0.0	52.8	No	
	J Receptor-10	359,491	884,168	0.5	2.0	0.0	57.6	No	
	K Receptor-11	359,604	884,116	6.2	2.0	0.0	54.8	No	
	L Receptor-12	359,628	884,111	7.1	2.0	0.0	54.5	No	
	M Receptor-13	359,645	883,856	4.9	2.0	0.0	56.0	No	
	N Receptor-14	359,657	883,781	4.5	2.0	-1.0	54.4	No	
	O Receptor-15	359,680	883,762	5.0	2.0	0.0	54.5	No	
	P Receptor-16	359,685	883,354	1.1	2.0	0.0	52.7	No	
	Q Receptor-17	359,779	883,317	5.0	2.0	0.0	54.7	No	
	R Receptor-18	359,793	883,295	5.0	2.0	0.0	55.7	No	

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DECIBEL - Main Result**Calculation:** Alternative S88 V3

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Noise sensitive area		UTM WGS84 Zone: 44			Demands		Sound Level	Demands fulfilled ?	
No.	Name	East	North	Z	Imission height	Noise	From WTGs	Noise	
				[m]	[m]	[dB(A)]	[dB(A)]		
	S Receptor-19	359,811	883,013	2.1	2.0	0.0	53.2	No	
	T Nearest land Boundary WTG1	359,067	886,029	5.0	2.0	0.0	58.7	No	
	U Nearest land Boundary WTG2	359,197	885,900	5.0	2.0	0.0	58.2	No	
	V Nearest land Boundary WTG3	359,352	885,351	5.0	2.0	0.0	57.6	No	
	W Nearest land Boundary WTG4	359,463	884,213	0.0	2.0	-1.0	58.1	No	
	X Nearest land Boundary WTG5	359,668	883,980	5.3	2.0	0.0	58.2	No	
	Y Nearest land Boundary WTG6	359,734	883,630	3.7	2.0	0.0	57.8	No	
	Z Nearest land Boundary WTG7	359,833	883,226	5.0	2.0	0.0	57.7	No	
	AA Nearest land Boundary WTG8	359,923	882,847	5.0	2.0	0.0	58.5	No	

Distances (m)

WTG																		
NSA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
A	306	185	441	1550	1850	2181	2604	2985	3502	4015	4541	3855	2985	1750	1347	999	706	710
B	474	309	265	1393	1689	2022	2445	2826	3344	3856	4380	3679	2805	1559	1150	799	552	711
C	731	580	84	1124	1423	1754	2178	2559	3076	3589	4114	3430	2562	1344	966	702	666	971
D	731	585	116	1124	1424	1755	2178	2559	3076	3589	4114	3435	2569	1357	985	729	696	990
E	871	714	144	987	1283	1616	2040	2421	2939	3451	3975	3285	2416	1197	827	601	677	1058
F	938	780	207	922	1218	1551	1974	2355	2873	3385	3909	3218	2349	1133	770	573	703	1110
G	1082	926	354	776	1072	1405	1828	2209	2727	3239	3764	3078	2212	1016	686	579	811	1249
H	1667	1511	938	192	487	819	1242	1624	2141	2654	3178	2508	1654	614	575	846	1288	1798
I	1705	1552	980	149	452	780	1203	1585	2102	2615	3140	2479	1631	633	624	901	1341	1847
J	1902	1750	1178	53	265	585	1007	1389	1905	2418	2944	2296	1459	611	732	1065	1527	2042
K	1982	1825	1251	146	172	507	929	1310	1828	2340	2864	2194	1348	515	705	1076	1560	2091
L	1995	1837	1263	167	163	498	919	1299	1817	2329	2852	2178	1329	494	696	1075	1563	2097
M	2244	2088	1514	392	92	243	666	1047	1564	2077	2601	1949	1123	617	918	1319	1815	2352
N	2319	2164	1590	466	168	167	590	971	1489	2001	2526	1879	1061	664	985	1390	1890	2428
O	2344	2188	1614	492	191	146	567	947	1465	1977	2501	1850	1031	663	995	1405	1907	2447
P	2739	2586	2014	885	595	262	181	555	1069	1582	2108	1519	798	1013	1388	1808	2314	2855
Q	2799	2644	2070	945	647	314	112	491	1009	1521	2046	1430	696	1015	1408	1836	2349	2897
R	2823	2668	2094	970	671	339	90	467	985	1497	2021	1404	675	1031	1427	1856	2370	2919
S	3101	2947	2373	1246	951	616	194	192	706	1219	1745	1184	609	1300	1705	2137	2653	3202
T	40	167	737	1860	2158	2490	2914	3295	3813	4325	4850	4152	3278	2025	1606	1218	808	557
U	201	48	579	1708	2002	2336	2759	3139	3657	4169	4693	3984	3108	1849	1427	1036	637	503
V	737	570	49	1141	1432	1767	2189	2570	3088	3599	4123	3417	2543	1300	900	592	538	890
W	1853	1701	1131	39	317	636	1058	1439	1955	2468	2994	2348	1511	632	720	1036	1489	1999
X	2132	1974	1400	293	44	364	783	1162	1680	2192	2715	2044	1201	521	796	1193	1691	2229
Y	2485	2328	1754	634	332	51	428	807	1325	1837	2361	1711	903	744	1108	1528	2036	2581
Z	2901	2745	2171	1048	748	418	51	391	909	1420	1944	1325	614	1088	1492	1924	2440	2991
AA	3290	3134	2560	1436	1137	805	383	33	521	1031	1555	990	534	1445	1864	2301	2822	3376

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DECIBEL - Detailed results**Calculation:** Alternative S88 V3Noise calculation model: ISO 9613-2 General 8.0 m/s**Assumptions**

Calculated L(DW) = LWA,ref + K + Dc - (Adiv + Aatm + Agr + Abar + Amisc) - Cmet
 (when calculated with ground attenuation, then Dc = Domega)

LWA,ref: Sound pressure level at WTG
 K: Pure tone
 Dc: Directivity correction
 Adiv: the attenuation due to geometrical divergence
 Aatm: the attenuation due to atmospheric absorption
 Agr: the attenuation due to ground effect
 Abar: the attenuation due to a barrier
 Amisc: the attenuation due to miscellaneous other effects
 Cmet: Meteorological correction

Calculation Results**Noise sensitive area: A Receptor-1**

WTG		Wind speed: 8.0 m/s										
No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet
	[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
1	306	315	45.65	104.2	3.00	60.96	0.60	0.00	0.00	0.00	61.55	0.00
2	185	199	49.83	104.2	3.00	56.99	0.38	0.00	0.00	0.00	57.37	0.00
3	441	448	42.33	104.2	3.00	64.02	0.85	0.00	0.00	0.00	64.87	0.00
4	1,550	1,552	29.44	104.2	3.00	74.82	2.95	0.00	0.00	0.00	77.76	0.00
5	1,850	1,851	27.33	104.2	3.00	76.35	3.52	0.00	0.00	0.00	79.87	0.00
6	2,181	2,182	25.28	104.2	3.00	77.78	4.15	0.00	0.00	0.00	81.92	0.00
7	2,604	2,605	22.93	104.2	3.00	79.32	4.95	0.00	0.00	0.00	84.27	0.00
8	2,985	2,986	21.02	104.2	3.00	80.50	5.67	0.00	0.00	0.00	86.18	0.00
9	3,502	3,503	18.05	103.6	3.00	81.89	6.66	0.00	0.00	0.00	88.55	0.00
10	4,015	4,016	15.89	103.6	3.00	83.08	7.63	0.00	0.00	0.00	90.71	0.00
11	4,541	4,541	13.83	103.6	3.00	84.14	8.63	0.00	0.00	0.00	92.77	0.00
12	3,855	3,856	16.55	103.6	3.00	82.72	7.33	0.00	0.00	0.00	90.05	0.00
13	2,985	2,986	20.42	103.6	3.00	80.50	5.67	0.00	0.00	0.00	86.18	0.00
14	1,750	1,752	27.40	103.6	3.00	75.87	3.33	0.00	0.00	0.00	79.20	0.00
15	1,347	1,349	30.43	103.6	3.00	73.60	2.56	0.00	0.00	0.00	76.17	0.00
16	999	1,003	33.67	103.6	3.00	71.02	1.90	0.00	0.00	0.00	72.93	0.00
17	706	711	37.21	103.6	3.00	68.04	1.35	0.00	0.00	0.00	69.39	0.00
18	710	715	37.15	103.6	3.00	68.09	1.36	0.00	0.00	0.00	69.45	0.00
Sum	52.22											

Noise sensitive area: B Receptor-2

WTG		Wind speed: 8.0 m/s										
No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet
	[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
1	474	480	41.67	104.2	3.00	64.62	0.91	0.00	0.00	0.00	65.53	0.00
2	309	317	45.57	104.2	3.00	61.03	0.60	0.00	0.00	0.00	61.63	0.00
3	265	275	46.90	104.2	3.00	59.78	0.52	0.00	0.00	0.00	60.30	0.00
4	1,393	1,395	30.66	104.2	3.00	73.89	2.65	0.00	0.00	0.00	76.54	0.00
5	1,689	1,690	28.43	104.2	3.00	75.56	3.21	0.00	0.00	0.00	78.77	0.00
6	2,022	2,023	26.23	104.2	3.00	77.12	3.84	0.00	0.00	0.00	80.97	0.00
7	2,445	2,446	23.78	104.2	3.00	78.77	4.65	0.00	0.00	0.00	83.42	0.00
8	2,826	2,827	21.80	104.2	3.00	80.03	5.37	0.00	0.00	0.00	85.40	0.00
9	3,344	3,345	18.76	103.6	3.00	81.49	6.36	0.00	0.00	0.00	87.84	0.00
10	3,856	3,857	16.55	103.6	3.00	82.72	7.33	0.00	0.00	0.00	90.05	0.00
11	4,380	4,381	14.45	103.6	3.00	83.83	8.32	0.00	0.00	0.00	92.15	0.00
12	3,679	3,680	17.29	103.6	3.00	82.32	6.99	0.00	0.00	0.00	89.31	0.00
13	2,805	2,807	21.30	103.6	3.00	79.96	5.33	0.00	0.00	0.00	85.30	0.00
14	1,559	1,561	28.77	103.6	3.00	74.87	2.97	0.00	0.00	0.00	77.83	0.00
15	1,150	1,153	32.18	103.6	3.00	72.23	2.19	0.00	0.00	0.00	74.42	0.00
16	799	803	35.98	103.6	3.00	69.09	1.53	0.00	0.00	0.00	70.62	0.00

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DECIBEL - Detailed results**Calculation:** Alternative S88 V3Noise calculation model: ISO 9613-2 General 8.0 m/s

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WTG		Wind speed: 8.0 m/s												
No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet		
	[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]		
17	552	557	39.62	103.6	3.00	65.92	1.06	0.00	0.00	0.00	66.98	0.00		
18	711	715	37.15	103.6	3.00	68.09	1.36	0.00	0.00	0.00	69.45	0.00		
Sum	50.91													

Noise sensitive area: C Receptor-3

WTG		Wind speed: 8.0 m/s												
No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet		
	[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]		
1	731	734	37.49	104.2	3.00	68.32	1.40	0.00	0.00	0.00	69.71	0.00		
2	580	585	39.75	104.2	3.00	66.34	1.11	0.00	0.00	0.00	67.45	0.00		
3	84	112	55.00	104.2	3.00	51.98	0.21	0.00	0.00	0.00	52.20	0.00		
4	1,124	1,126	33.03	104.2	3.00	72.03	2.14	0.00	0.00	0.00	74.17	0.00		
5	1,423	1,425	30.42	104.2	3.00	74.07	2.71	0.00	0.00	0.00	76.78	0.00		
6	1,754	1,756	27.97	104.2	3.00	75.89	3.34	0.00	0.00	0.00	79.23	0.00		
7	2,178	2,179	25.29	104.2	3.00	77.77	4.14	0.00	0.00	0.00	81.91	0.00		
8	2,559	2,560	23.17	104.2	3.00	79.16	4.86	0.00	0.00	0.00	84.03	0.00		
9	3,076	3,077	19.99	103.6	3.00	80.76	5.85	0.00	0.00	0.00	86.61	0.00		
10	3,589	3,590	17.68	103.6	3.00	82.10	6.82	0.00	0.00	0.00	88.92	0.00		
11	4,114	4,115	15.50	103.6	3.00	83.29	7.82	0.00	0.00	0.00	91.10	0.00		
12	3,430	3,431	18.37	103.6	3.00	81.71	6.52	0.00	0.00	0.00	88.23	0.00		
13	2,562	2,563	22.55	103.6	3.00	79.18	4.87	0.00	0.00	0.00	84.05	0.00		
14	1,344	1,346	30.46	103.6	3.00	73.58	2.56	0.00	0.00	0.00	76.14	0.00		
15	966	970	34.03	103.6	3.00	70.73	1.84	0.00	0.00	0.00	72.57	0.00		
16	702	706	37.28	103.6	3.00	67.98	1.34	0.00	0.00	0.00	69.32	0.00		
17	666	671	37.79	103.6	3.00	67.54	1.28	0.00	0.00	0.00	68.81	0.00		
18	971	974	33.98	103.6	3.00	70.77	1.85	0.00	0.00	0.00	72.62	0.00		
Sum	55.49													

Noise sensitive area: D Receptor-4

WTG		Wind speed: 8.0 m/s												
No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet		
	[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]		
1	731	735	37.48	104.2	3.00	68.32	1.40	0.00	0.00	0.00	69.72	0.00		
2	585	590	39.67	104.2	3.00	66.41	1.12	0.00	0.00	0.00	67.53	0.00		
3	116	138	53.15	104.2	3.00	53.78	0.26	0.00	0.00	0.00	54.05	0.00		
4	1,124	1,126	33.03	104.2	3.00	72.03	2.14	0.00	0.00	0.00	74.17	0.00		
5	1,424	1,426	30.41	104.2	3.00	74.08	2.71	0.00	0.00	0.00	76.79	0.00		
6	1,755	1,756	27.97	104.2	3.00	75.89	3.34	0.00	0.00	0.00	79.23	0.00		
7	2,178	2,179	25.29	104.2	3.00	77.77	4.14	0.00	0.00	0.00	81.91	0.00		
8	2,559	2,560	23.17	104.2	3.00	79.17	4.86	0.00	0.00	0.00	84.03	0.00		
9	3,076	3,077	19.99	103.6	3.00	80.76	5.85	0.00	0.00	0.00	86.61	0.00		
10	3,589	3,590	17.68	103.6	3.00	82.10	6.82	0.00	0.00	0.00	88.92	0.00		
11	4,114	4,115	15.49	103.6	3.00	83.29	7.82	0.00	0.00	0.00	91.11	0.00		
12	3,435	3,436	18.35	103.6	3.00	81.72	6.53	0.00	0.00	0.00	88.25	0.00		
13	2,569	2,570	22.52	103.6	3.00	79.20	4.88	0.00	0.00	0.00	84.08	0.00		
14	1,357	1,360	30.35	103.6	3.00	73.67	2.58	0.00	0.00	0.00	76.25	0.00		
15	985	989	33.82	103.6	3.00	70.90	1.88	0.00	0.00	0.00	72.78	0.00		
16	729	734	36.89	103.6	3.00	68.31	1.39	0.00	0.00	0.00	69.71	0.00		
17	696	701	37.35	103.6	3.00	67.91	1.33	0.00	0.00	0.00	69.25	0.00		
18	990	993	33.77	103.6	3.00	70.94	1.89	0.00	0.00	0.00	72.83	0.00		
Sum	53.85													

Noise sensitive area: E Receptor-5

WTG		Wind speed: 8.0 m/s												
No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet		
	[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]		
1	871	874	35.71	104.2	3.00	69.83	1.66	0.00	0.00	0.00	71.49	0.00		

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Calculated:

04/10/2010 09:56/2.7.473

DECIBEL - Detailed results**Calculation:** Alternative S88 V3Noise calculation model: ISO 9613-2 General 8.0 m/s

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WTG		Wind speed: 8.0 m/s											
No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet	
	[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	
2	714	718	37.72	104.2	3.00	68.12	1.36	0.00	0.00	0.00	69.48	0.00	
3	144	162	51.69	104.2	3.00	55.20	0.31	0.00	0.00	0.00	55.51	0.00	
4	987	990	34.41	104.2	3.00	70.91	1.88	0.00	0.00	0.00	72.79	0.00	
5	1,283	1,286	31.57	104.2	3.00	73.18	2.44	0.00	0.00	0.00	75.63	0.00	
6	1,616	1,618	28.95	104.2	3.00	75.18	3.07	0.00	0.00	0.00	78.25	0.00	
7	2,040	2,041	26.12	104.2	3.00	77.20	3.88	0.00	0.00	0.00	81.08	0.00	
8	2,421	2,422	23.91	104.2	3.00	78.68	4.60	0.00	0.00	0.00	83.29	0.00	
9	2,939	2,940	20.65	103.6	3.00	80.37	5.59	0.00	0.00	0.00	85.95	0.00	
10	3,451	3,452	18.28	103.6	3.00	81.76	6.56	0.00	0.00	0.00	88.32	0.00	
11	3,975	3,976	16.06	103.6	3.00	82.99	7.55	0.00	0.00	0.00	90.54	0.00	
12	3,285	3,286	19.02	103.6	3.00	81.33	6.24	0.00	0.00	0.00	87.58	0.00	
13	2,416	2,417	23.34	103.6	3.00	78.67	4.59	0.00	0.00	0.00	83.26	0.00	
14	1,197	1,200	31.74	103.6	3.00	72.58	2.28	0.00	0.00	0.00	74.86	0.00	
15	827	831	35.63	103.6	3.00	69.39	1.58	0.00	0.00	0.00	70.97	0.00	
16	601	606	38.79	103.6	3.00	66.66	1.15	0.00	0.00	0.00	67.81	0.00	
17	677	682	37.64	103.6	3.00	67.67	1.29	0.00	0.00	0.00	68.96	0.00	
18	1,058	1,061	33.07	103.6	3.00	71.52	2.02	0.00	0.00	0.00	73.53	0.00	
Sum	52.65												

Noise sensitive area: F Receptor-6

WTG		Wind speed: 8.0 m/s											
No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet	
	[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	
1	938	940	34.95	104.2	3.00	70.47	1.79	0.00	0.00	0.00	72.25	0.00	
2	780	783	36.84	104.2	3.00	68.88	1.49	0.00	0.00	0.00	70.36	0.00	
3	207	219	48.96	104.2	3.00	57.83	0.42	0.00	0.00	0.00	58.24	0.00	
4	922	925	35.12	104.2	3.00	70.32	1.76	0.00	0.00	0.00	72.08	0.00	
5	1,218	1,220	32.16	104.2	3.00	72.73	2.32	0.00	0.00	0.00	75.04	0.00	
6	1,551	1,552	29.43	104.2	3.00	74.82	2.95	0.00	0.00	0.00	77.77	0.00	
7	1,974	1,976	26.53	104.2	3.00	76.91	3.75	0.00	0.00	0.00	80.67	0.00	
8	2,355	2,356	24.28	104.2	3.00	78.44	4.48	0.00	0.00	0.00	82.92	0.00	
9	2,873	2,874	20.97	103.6	3.00	80.17	5.46	0.00	0.00	0.00	85.63	0.00	
10	3,385	3,386	18.57	103.6	3.00	81.59	6.43	0.00	0.00	0.00	88.03	0.00	
11	3,909	3,910	16.33	103.6	3.00	82.84	7.43	0.00	0.00	0.00	90.27	0.00	
12	3,218	3,219	19.33	103.6	3.00	81.15	6.12	0.00	0.00	0.00	87.27	0.00	
13	2,349	2,351	23.71	103.6	3.00	78.42	4.47	0.00	0.00	0.00	82.89	0.00	
14	1,133	1,136	32.33	103.6	3.00	72.11	2.16	0.00	0.00	0.00	74.27	0.00	
15	770	774	36.35	103.6	3.00	68.78	1.47	0.00	0.00	0.00	70.25	0.00	
16	573	578	39.26	103.6	3.00	66.24	1.10	0.00	0.00	0.00	67.34	0.00	
17	703	708	37.26	103.6	3.00	68.00	1.34	0.00	0.00	0.00	69.34	0.00	
18	1,110	1,113	32.55	103.6	3.00	71.93	2.12	0.00	0.00	0.00	74.05	0.00	
Sum	50.62												

Noise sensitive area: G Receptor-7

WTG	Wind speed: 8.0 m/s												
	No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet
		[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
	1	1,082	1,084	33.44	104.2	3.00	71.70	2.06	0.00	0.00	0.00	73.76	0.00
	2	926	929	35.08	104.2	3.00	70.36	1.76	0.00	0.00	0.00	72.12	0.00
	3	354	361	44.35	104.2	3.00	62.16	0.69	0.00	0.00	0.00	62.85	0.00
	4	776	779	36.89	104.2	3.00	68.83	1.48	0.00	0.00	0.00	70.31	0.00
	5	1,072	1,075	33.53	104.2	3.00	71.62	2.04	0.00	0.00	0.00	73.67	0.00
	6	1,405	1,407	30.56	104.2	3.00	73.96	2.67	0.00	0.00	0.00	76.64	0.00
	7	1,828	1,830	27.48	104.2	3.00	76.25	3.48	0.00	0.00	0.00	79.72	0.00
	8	2,209	2,210	25.11	104.2	3.00	77.89	4.20	0.00	0.00	0.00	82.09	0.00
	9	2,727	2,728	21.70	103.6	3.00	79.72	5.18	0.00	0.00	0.00	84.90	0.00
	10	3,239	3,240	19.23	103.6	3.00	81.21	6.16	0.00	0.00	0.00	87.37	0.00
	11	3,764	3,765	16.93	103.6	3.00	82.51	7.15	0.00	0.00	0.00	89.67	0.00

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Calculated:

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DECIBEL - Detailed results**Calculation:** Alternative S88 V3Noise calculation model: ISO 9613-2 General 8.0 m/s

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WTG		Wind speed: 8.0 m/s										
No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet
	[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
12	3,078	3,079	19.98	103.6	3.00	80.77	5.85	0.00	0.00	0.00	86.62	0.00
13	2,212	2,214	24.49	103.6	3.00	77.90	4.21	0.00	0.00	0.00	82.11	0.00
14	1,016	1,020	33.49	103.6	3.00	71.17	1.94	0.00	0.00	0.00	73.11	0.00
15	686	690	37.51	103.6	3.00	67.78	1.31	0.00	0.00	0.00	69.09	0.00
16	579	585	39.15	103.6	3.00	66.34	1.11	0.00	0.00	0.00	67.45	0.00
17	811	815	35.83	103.6	3.00	69.22	1.55	0.00	0.00	0.00	70.77	0.00
18	1,249	1,252	31.27	103.6	3.00	72.95	2.38	0.00	0.00	0.00	75.33	0.00
Sum	48.05											

Noise sensitive area: H Receptor-8

WTG		Wind speed: 8.0 m/s										
No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet
	[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
1	1,667	1,668	28.59	104.2	3.00	75.44	3.17	0.00	0.00	0.00	78.61	0.00
2	1,511	1,513	29.73	104.2	3.00	74.60	2.87	0.00	0.00	0.00	77.47	0.00
3	938	941	34.94	104.2	3.00	70.47	1.79	0.00	0.00	0.00	72.26	0.00
4	192	205	49.58	104.2	3.00	57.23	0.39	0.00	0.00	0.00	57.62	0.00
5	487	493	41.42	104.2	3.00	64.85	0.94	0.00	0.00	0.00	65.78	0.00
6	819	822	36.34	104.2	3.00	69.30	1.56	0.00	0.00	0.00	70.86	0.00
7	1,242	1,245	31.93	104.2	3.00	72.90	2.36	0.00	0.00	0.00	75.27	0.00
8	1,624	1,625	28.89	104.2	3.00	75.22	3.09	0.00	0.00	0.00	78.31	0.00
9	2,141	2,143	24.91	103.6	3.00	77.62	4.07	0.00	0.00	0.00	81.69	0.00
10	2,654	2,655	22.08	103.6	3.00	79.48	5.04	0.00	0.00	0.00	84.52	0.00
11	3,178	3,179	19.51	103.6	3.00	81.05	6.04	0.00	0.00	0.00	87.09	0.00
12	2,508	2,509	22.84	103.6	3.00	78.99	4.77	0.00	0.00	0.00	83.76	0.00
13	1,654	1,656	28.07	103.6	3.00	75.38	3.15	0.00	0.00	0.00	78.53	0.00
14	614	619	38.59	103.6	3.00	66.83	1.18	0.00	0.00	0.00	68.01	0.00
15	575	580	39.23	103.6	3.00	66.27	1.10	0.00	0.00	0.00	67.37	0.00
16	846	850	35.40	103.6	3.00	69.59	1.61	0.00	0.00	0.00	71.20	0.00
17	1,288	1,291	30.93	103.6	3.00	73.22	2.45	0.00	0.00	0.00	75.67	0.00
18	1,798	1,800	27.08	103.6	3.00	76.10	3.42	0.00	0.00	0.00	79.52	0.00
Sum	51.41											

Noise sensitive area: I Receptor-9

WTG		Wind speed: 8.0 m/s										
No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet
	[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
1	1,705	1,707	28.31	104.2	3.00	75.64	3.24	0.00	0.00	0.00	78.89	0.00
2	1,552	1,554	29.42	104.2	3.00	74.83	2.95	0.00	0.00	0.00	77.78	0.00
3	980	983	34.48	104.2	3.00	70.85	1.87	0.00	0.00	0.00	72.72	0.00
4	149	165	51.52	104.2	3.00	55.37	0.31	0.00	0.00	0.00	55.68	0.00
5	452	458	42.12	104.2	3.00	64.21	0.87	0.00	0.00	0.00	65.08	0.00
6	780	784	36.83	104.2	3.00	68.88	1.49	0.00	0.00	0.00	70.37	0.00
7	1,203	1,206	32.28	104.2	3.00	72.62	2.29	0.00	0.00	0.00	74.92	0.00
8	1,585	1,586	29.18	104.2	3.00	75.01	3.01	0.00	0.00	0.00	78.02	0.00
9	2,102	2,103	25.15	103.6	3.00	77.46	4.00	0.00	0.00	0.00	81.45	0.00
10	2,615	2,616	22.28	103.6	3.00	79.35	4.97	0.00	0.00	0.00	84.32	0.00
11	3,140	3,141	19.69	103.6	3.00	80.94	5.97	0.00	0.00	0.00	86.91	0.00
12	2,479	2,481	23.00	103.6	3.00	78.89	4.71	0.00	0.00	0.00	83.60	0.00
13	1,631	1,633	28.24	103.6	3.00	75.26	3.10	0.00	0.00	0.00	78.36	0.00
14	633	638	38.28	103.6	3.00	67.10	1.21	0.00	0.00	0.00	68.32	0.00
15	624	629	38.43	103.6	3.00	66.97	1.20	0.00	0.00	0.00	68.17	0.00
16	901	905	34.75	103.6	3.00	70.13	1.72	0.00	0.00	0.00	71.85	0.00
17	1,341	1,344	30.48	103.6	3.00	73.57	2.55	0.00	0.00	0.00	76.12	0.00
18	1,847	1,849	26.75	103.6	3.00	76.34	3.51	0.00	0.00	0.00	79.85	0.00
Sum	52.78											

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Calculated:

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DECIBEL - Detailed results**Calculation:** Alternative S88 V3Noise calculation model: ISO 9613-2 General 8.0 m/s**Noise sensitive area: J Receptor-10**

WTG		Wind speed: 8.0 m/s										
No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	1,902	1,904	26.99	104.2	3.00	76.59	3.62	0.00	0.00	0.00	80.21	0.00
2	1,750	1,751	28.00	104.2	3.00	75.87	3.33	0.00	0.00	0.00	79.20	0.00
3	1,178	1,181	32.51	104.2	3.00	72.44	2.24	0.00	0.00	0.00	74.69	0.00
4	53	90	56.95	104.2	3.00	50.08	0.17	0.00	0.00	0.00	50.25	0.00
5	265	276	46.87	104.2	3.00	59.81	0.52	0.00	0.00	0.00	60.33	0.00
6	585	590	39.67	104.2	3.00	66.41	1.12	0.00	0.00	0.00	67.53	0.00
7	1,007	1,010	34.19	104.2	3.00	71.09	1.92	0.00	0.00	0.00	73.01	0.00
8	1,389	1,391	30.69	104.2	3.00	73.86	2.64	0.00	0.00	0.00	76.51	0.00
9	1,905	1,907	26.37	103.6	3.00	76.61	3.62	0.00	0.00	0.00	80.23	0.00
10	2,418	2,419	23.33	103.6	3.00	78.67	4.60	0.00	0.00	0.00	83.27	0.00
11	2,944	2,945	20.62	103.6	3.00	80.38	5.60	0.00	0.00	0.00	85.98	0.00
12	2,296	2,297	24.01	103.6	3.00	78.22	4.36	0.00	0.00	0.00	82.59	0.00
13	1,459	1,461	29.53	103.6	3.00	74.30	2.78	0.00	0.00	0.00	77.07	0.00
14	611	617	38.62	103.6	3.00	66.81	1.17	0.00	0.00	0.00	67.98	0.00
15	732	737	36.86	103.6	3.00	68.34	1.40	0.00	0.00	0.00	69.74	0.00
16	1,065	1,069	32.99	103.6	3.00	71.58	2.03	0.00	0.00	0.00	73.61	0.00
17	1,527	1,529	29.01	103.6	3.00	74.69	2.91	0.00	0.00	0.00	77.59	0.00
18	2,042	2,043	25.51	103.6	3.00	77.21	3.88	0.00	0.00	0.00	81.09	0.00
Sum	57.62											

Noise sensitive area: K Receptor-11

WTG		Wind speed: 8.0 m/s										
No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	1,982	1,983	26.48	104.2	3.00	76.95	3.77	0.00	0.00	0.00	80.72	0.00
2	1,825	1,827	27.50	104.2	3.00	76.23	3.47	0.00	0.00	0.00	79.70	0.00
3	1,251	1,253	31.86	104.2	3.00	72.96	2.38	0.00	0.00	0.00	75.34	0.00
4	146	160	51.80	104.2	3.00	55.09	0.30	0.00	0.00	0.00	55.40	0.00
5	172	186	50.45	104.2	3.00	56.40	0.35	0.00	0.00	0.00	56.75	0.00
6	507	511	41.05	104.2	3.00	65.17	0.97	0.00	0.00	0.00	66.15	0.00
7	929	932	35.04	104.2	3.00	70.39	1.77	0.00	0.00	0.00	72.16	0.00
8	1,310	1,312	31.35	104.2	3.00	73.36	2.49	0.00	0.00	0.00	75.85	0.00
9	1,828	1,829	26.88	103.6	3.00	76.24	3.48	0.00	0.00	0.00	79.72	0.00
10	2,340	2,341	23.77	103.6	3.00	78.39	4.45	0.00	0.00	0.00	82.83	0.00
11	2,864	2,865	21.02	103.6	3.00	80.14	5.44	0.00	0.00	0.00	85.58	0.00
12	2,194	2,196	24.60	103.6	3.00	77.83	4.17	0.00	0.00	0.00	82.00	0.00
13	1,348	1,351	30.42	103.6	3.00	73.61	2.57	0.00	0.00	0.00	76.18	0.00
14	515	521	40.27	103.6	3.00	65.34	0.99	0.00	0.00	0.00	66.33	0.00
15	705	709	37.25	103.6	3.00	68.01	1.35	0.00	0.00	0.00	69.35	0.00
16	1,076	1,079	32.89	103.6	3.00	71.66	2.05	0.00	0.00	0.00	73.71	0.00
17	1,560	1,562	28.76	103.6	3.00	74.87	2.97	0.00	0.00	0.00	77.84	0.00
18	2,091	2,092	25.21	103.6	3.00	77.41	3.98	0.00	0.00	0.00	81.39	0.00
Sum	54.82											

Noise sensitive area: L Receptor-12

WTG		Wind speed: 8.0 m/s										
No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	1,995	1,996	26.41	104.2	3.00	77.00	3.79	0.00	0.00	0.00	80.79	0.00
2	1,837	1,838	27.42	104.2	3.00	76.29	3.49	0.00	0.00	0.00	79.78	0.00
3	1,263	1,265	31.76	104.2	3.00	73.04	2.40	0.00	0.00	0.00	75.44	0.00
4	167	180	50.77	104.2	3.00	56.09	0.34	0.00	0.00	0.00	56.43	0.00
5	163	178	50.87	104.2	3.00	56.00	0.34	0.00	0.00	0.00	56.33	0.00
6	498	502	41.22	104.2	3.00	65.02	0.95	0.00	0.00	0.00	65.98	0.00
7	919	922	35.15	104.2	3.00	70.29	1.75	0.00	0.00	0.00	72.05	0.00
8	1,299	1,301	31.44	104.2	3.00	73.29	2.47	0.00	0.00	0.00	75.76	0.00
9	1,817	1,818	26.95	103.6	3.00	76.19	3.46	0.00	0.00	0.00	79.65	0.00
10	2,329	2,330	23.83	103.6	3.00	78.35	4.43	0.00	0.00	0.00	82.77	0.00

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+45 8943 8714

Livio Casella / livio.casella@suzlon.com

Calculated:

04/10/2010 09:56/2.7.473

DECIBEL - Detailed results**Calculation: Alternative S88 V3Noise calculation model: ISO 9613-2 General 8.0 m/s**

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WTG		Wind speed: 8.0 m/s										
No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet
	[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
11	2,852	2,853	21.07	103.6	3.00	80.11	5.42	0.00	0.00	0.00	85.53	0.00
12	2,178	2,179	24.69	103.6	3.00	77.77	4.14	0.00	0.00	0.00	81.91	0.00
13	1,329	1,331	30.58	103.6	3.00	73.49	2.53	0.00	0.00	0.00	76.02	0.00
14	494	500	40.67	103.6	3.00	64.98	0.95	0.00	0.00	0.00	65.93	0.00
15	696	700	37.36	103.6	3.00	67.91	1.33	0.00	0.00	0.00	69.24	0.00
16	1,075	1,077	32.90	103.6	3.00	71.65	2.05	0.00	0.00	0.00	73.70	0.00
17	1,563	1,565	28.74	103.6	3.00	74.89	2.97	0.00	0.00	0.00	77.86	0.00
18	2,097	2,098	25.18	103.6	3.00	77.44	3.99	0.00	0.00	0.00	81.42	0.00
Sum	54.54											

Noise sensitive area: M Receptor-13

WTG		Wind speed: 8.0 m/s										
No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet
	[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
1	2,244	2,245	24.91	104.2	3.00	78.02	4.27	0.00	0.00	0.00	82.29	0.00
2	2,088	2,089	25.83	104.2	3.00	77.40	3.97	0.00	0.00	0.00	81.37	0.00
3	1,514	1,516	29.70	104.2	3.00	74.61	2.88	0.00	0.00	0.00	77.50	0.00
4	392	397	43.46	104.2	3.00	62.98	0.76	0.00	0.00	0.00	63.74	0.00
5	92	117	54.63	104.2	3.00	52.35	0.22	0.00	0.00	0.00	52.57	0.00
6	243	253	47.67	104.2	3.00	59.05	0.48	0.00	0.00	0.00	59.53	0.00
7	666	670	38.41	104.2	3.00	67.52	1.27	0.00	0.00	0.00	68.79	0.00
8	1,047	1,049	33.79	104.2	3.00	71.42	1.99	0.00	0.00	0.00	73.41	0.00
9	1,564	1,566	28.73	103.6	3.00	74.90	2.98	0.00	0.00	0.00	77.87	0.00
10	2,077	2,078	25.30	103.6	3.00	77.35	3.95	0.00	0.00	0.00	81.30	0.00
11	2,601	2,602	22.35	103.6	3.00	79.31	4.94	0.00	0.00	0.00	84.25	0.00
12	1,949	1,950	26.09	103.6	3.00	76.80	3.71	0.00	0.00	0.00	80.51	0.00
13	1,123	1,125	32.44	103.6	3.00	72.03	2.14	0.00	0.00	0.00	74.16	0.00
14	617	622	38.54	103.6	3.00	66.88	1.18	0.00	0.00	0.00	68.06	0.00
15	918	922	34.56	103.6	3.00	70.29	1.75	0.00	0.00	0.00	72.04	0.00
16	1,319	1,321	30.67	103.6	3.00	73.42	2.51	0.00	0.00	0.00	75.93	0.00
17	1,815	1,817	26.96	103.6	3.00	76.19	3.45	0.00	0.00	0.00	79.64	0.00
18	2,352	2,353	23.70	103.6	3.00	78.43	4.47	0.00	0.00	0.00	82.90	0.00
Sum	55.99											

Noise sensitive area: N Receptor-14

WTG		Wind speed: 8.0 m/s										
No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet
	[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
1	2,319	2,320	24.48	104.2	3.00	78.31	4.41	0.00	0.00	0.00	82.72	0.00
2	2,164	2,165	25.38	104.2	3.00	77.71	4.11	0.00	0.00	0.00	81.82	0.00
3	1,590	1,592	29.14	104.2	3.00	75.04	3.02	0.00	0.00	0.00	78.06	0.00
4	466	471	41.84	104.2	3.00	64.46	0.90	0.00	0.00	0.00	65.36	0.00
5	168	183	50.61	104.2	3.00	56.25	0.35	0.00	0.00	0.00	56.59	0.00
6	167	181	50.71	104.2	3.00	56.14	0.34	0.00	0.00	0.00	56.49	0.00
7	590	594	39.59	104.2	3.00	66.48	1.13	0.00	0.00	0.00	67.61	0.00
8	971	973	34.58	104.2	3.00	70.77	1.85	0.00	0.00	0.00	72.62	0.00
9	1,489	1,490	29.30	103.6	3.00	74.47	2.83	0.00	0.00	0.00	77.30	0.00
10	2,001	2,002	25.76	103.6	3.00	77.03	3.80	0.00	0.00	0.00	80.84	0.00
11	2,526	2,527	22.75	103.6	3.00	79.05	4.80	0.00	0.00	0.00	83.85	0.00
12	1,879	1,880	26.54	103.6	3.00	76.49	3.57	0.00	0.00	0.00	80.06	0.00
13	1,061	1,064	33.04	103.6	3.00	71.54	2.02	0.00	0.00	0.00	73.56	0.00
14	664	668	37.83	103.6	3.00	67.50	1.27	0.00	0.00	0.00	68.77	0.00
15	985	988	33.83	103.6	3.00	70.89	1.88	0.00	0.00	0.00	72.77	0.00
16	1,390	1,393	30.08	103.6	3.00	73.88	2.65	0.00	0.00	0.00	76.52	0.00
17	1,890	1,891	26.47	103.6	3.00	76.53	3.59	0.00	0.00	0.00	80.13	0.00
18	2,428	2,429	23.28	103.6	3.00	78.71	4.61	0.00	0.00	0.00	83.32	0.00
Sum	54.40											

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DK-8210 Århus V

+45 8943 8714

Livio Casella / livio.casella@suzlon.com

Calculated:

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DECIBEL - Detailed results**Calculation:** Alternative S88 V3Noise calculation model: ISO 9613-2 General 8.0 m/s**Noise sensitive area: O Receptor-15**

WTG		Wind speed: 8.0 m/s										
No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	2,344	2,345	24.34	104.2	3.00	78.40	4.46	0.00	0.00	0.00	82.86	0.00
2	2,188	2,189	25.24	104.2	3.00	77.80	4.16	0.00	0.00	0.00	81.96	0.00
3	1,614	1,616	28.96	104.2	3.00	75.17	3.07	0.00	0.00	0.00	78.24	0.00
4	492	497	41.34	104.2	3.00	64.92	0.94	0.00	0.00	0.00	65.86	0.00
5	191	204	49.63	104.2	3.00	57.18	0.39	0.00	0.00	0.00	57.57	0.00
6	146	162	51.73	104.2	3.00	55.17	0.31	0.00	0.00	0.00	55.47	0.00
7	567	571	39.98	104.2	3.00	66.14	1.09	0.00	0.00	0.00	67.22	0.00
8	947	950	34.84	104.2	3.00	70.55	1.80	0.00	0.00	0.00	72.36	0.00
9	1,465	1,467	29.49	103.6	3.00	74.33	2.79	0.00	0.00	0.00	77.11	0.00
10	1,977	1,979	25.91	103.6	3.00	76.93	3.76	0.00	0.00	0.00	80.69	0.00
11	2,501	2,503	22.88	103.6	3.00	78.97	4.75	0.00	0.00	0.00	83.72	0.00
12	1,850	1,852	26.73	103.6	3.00	76.35	3.52	0.00	0.00	0.00	79.87	0.00
13	1,031	1,034	33.34	103.6	3.00	71.29	1.96	0.00	0.00	0.00	73.26	0.00
14	663	668	37.84	103.6	3.00	67.49	1.27	0.00	0.00	0.00	68.76	0.00
15	995	998	33.72	103.6	3.00	70.98	1.90	0.00	0.00	0.00	72.88	0.00
16	1,405	1,407	29.96	103.6	3.00	73.97	2.67	0.00	0.00	0.00	76.64	0.00
17	1,907	1,908	26.36	103.6	3.00	76.61	3.63	0.00	0.00	0.00	80.24	0.00
18	2,447	2,448	23.17	103.6	3.00	78.78	4.65	0.00	0.00	0.00	83.43	0.00
Sum	54.52											

Noise sensitive area: P Receptor-16

WTG		Wind speed: 8.0 m/s										
No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	2,739	2,740	22.24	104.2	3.00	79.75	5.21	0.00	0.00	0.00	84.96	0.00
2	2,586	2,587	23.03	104.2	3.00	79.26	4.92	0.00	0.00	0.00	84.17	0.00
3	2,014	2,015	26.29	104.2	3.00	77.09	3.83	0.00	0.00	0.00	80.91	0.00
4	885	888	35.54	104.2	3.00	69.97	1.69	0.00	0.00	0.00	71.66	0.00
5	595	600	39.49	104.2	3.00	66.56	1.14	0.00	0.00	0.00	67.71	0.00
6	262	272	46.99	104.2	3.00	59.69	0.52	0.00	0.00	0.00	60.21	0.00
7	181	196	50.00	104.2	3.00	56.83	0.37	0.00	0.00	0.00	57.20	0.00
8	555	560	40.16	104.2	3.00	65.97	1.06	0.00	0.00	0.00	67.04	0.00
9	1,069	1,072	32.96	103.6	3.00	71.61	2.04	0.00	0.00	0.00	73.64	0.00
10	1,582	1,584	28.59	103.6	3.00	75.00	3.01	0.00	0.00	0.00	78.01	0.00
11	2,108	2,110	25.11	103.6	3.00	77.49	4.01	0.00	0.00	0.00	81.49	0.00
12	1,519	1,521	29.07	103.6	3.00	74.64	2.89	0.00	0.00	0.00	77.53	0.00
13	798	802	35.99	103.6	3.00	69.08	1.52	0.00	0.00	0.00	70.61	0.00
14	1,013	1,017	33.53	103.6	3.00	71.14	1.93	0.00	0.00	0.00	73.07	0.00
15	1,388	1,390	30.10	103.6	3.00	73.86	2.64	0.00	0.00	0.00	76.50	0.00
16	1,808	1,810	27.01	103.6	3.00	76.15	3.44	0.00	0.00	0.00	79.59	0.00
17	2,314	2,315	23.91	103.6	3.00	78.29	4.40	0.00	0.00	0.00	82.69	0.00
18	2,855	2,856	21.06	103.6	3.00	80.11	5.43	0.00	0.00	0.00	85.54	0.00
Sum	52.68											

Noise sensitive area: Q Receptor-17

WTG		Wind speed: 8.0 m/s										
No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	2,799	2,800	21.94	104.2	3.00	79.94	5.32	0.00	0.00	0.00	85.26	0.00
2	2,644	2,645	22.73	104.2	3.00	79.45	5.02	0.00	0.00	0.00	84.47	0.00
3	2,070	2,071	25.94	104.2	3.00	77.32	3.94	0.00	0.00	0.00	81.26	0.00
4	945	948	34.87	104.2	3.00	70.53	1.80	0.00	0.00	0.00	72.33	0.00
5	647	651	38.70	104.2	3.00	67.27	1.24	0.00	0.00	0.00	68.50	0.00
6	314	322	45.44	104.2	3.00	61.15	0.61	0.00	0.00	0.00	61.76	0.00
7	112	132	53.51	104.2	3.00	53.44	0.25	0.00	0.00	0.00	53.69	0.00
8	491	496	41.34	104.2	3.00	64.91	0.94	0.00	0.00	0.00	65.86	0.00
9	1,009	1,012	33.58	103.6	3.00	71.10	1.92	0.00	0.00	0.00	73.02	0.00
10	1,521	1,523	29.05	103.6	3.00	74.65	2.89	0.00	0.00	0.00	77.55	0.00

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Bredskifte Alle 13

DK-8210 Århus V

+45 8943 8714

Livio Casella / livio.casella@suzlon.com

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DECIBEL - Detailed results**Calculation: Alternative S88 V3Noise calculation model: ISO 9613-2 General 8.0 m/s**

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WTG		Wind speed: 8.0 m/s											
No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet	
	[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	
11	2,046	2,047	25.49	103.6	3.00	77.22	3.89	0.00	0.00	0.00	81.11	0.00	
12	1,430	1,432	29.76	103.6	3.00	74.12	2.72	0.00	0.00	0.00	76.84	0.00	
13	696	701	37.36	103.6	3.00	67.91	1.33	0.00	0.00	0.00	69.24	0.00	
14	1,015	1,018	33.51	103.6	3.00	71.15	1.93	0.00	0.00	0.00	73.09	0.00	
15	1,408	1,410	29.94	103.6	3.00	73.98	2.68	0.00	0.00	0.00	76.66	0.00	
16	1,836	1,838	26.82	103.6	3.00	76.29	3.49	0.00	0.00	0.00	79.78	0.00	
17	2,349	2,350	23.71	103.6	3.00	78.42	4.47	0.00	0.00	0.00	82.89	0.00	
18	2,897	2,898	20.85	103.6	3.00	80.24	5.51	0.00	0.00	0.00	85.75	0.00	
Sum	54.74												

Noise sensitive area: R Receptor-18

WTG		Wind speed: 8.0 m/s											
No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet	
	[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	
1	2,823	2,824	21.82	104.2	3.00	80.02	5.37	0.00	0.00	0.00	85.38	0.00	
2	2,668	2,669	22.60	104.2	3.00	79.53	5.07	0.00	0.00	0.00	84.60	0.00	
3	2,094	2,095	25.79	104.2	3.00	77.42	3.98	0.00	0.00	0.00	81.41	0.00	
4	970	972	34.60	104.2	3.00	70.75	1.85	0.00	0.00	0.00	72.60	0.00	
5	671	675	38.34	104.2	3.00	67.58	1.28	0.00	0.00	0.00	68.86	0.00	
6	339	346	44.77	104.2	3.00	61.78	0.66	0.00	0.00	0.00	62.43	0.00	
7	90	115	54.76	104.2	3.00	52.22	0.22	0.00	0.00	0.00	52.44	0.00	
8	467	473	41.81	104.2	3.00	64.49	0.90	0.00	0.00	0.00	65.39	0.00	
9	985	988	33.83	103.6	3.00	70.89	1.88	0.00	0.00	0.00	72.77	0.00	
10	1,497	1,499	29.24	103.6	3.00	74.52	2.85	0.00	0.00	0.00	77.36	0.00	
11	2,021	2,023	25.64	103.6	3.00	77.12	3.84	0.00	0.00	0.00	80.96	0.00	
12	1,404	1,407	29.96	103.6	3.00	73.96	2.67	0.00	0.00	0.00	76.64	0.00	
13	675	680	37.66	103.6	3.00	67.65	1.29	0.00	0.00	0.00	68.94	0.00	
14	1,031	1,034	33.34	103.6	3.00	71.29	1.96	0.00	0.00	0.00	73.26	0.00	
15	1,427	1,429	29.78	103.6	3.00	74.10	2.72	0.00	0.00	0.00	76.82	0.00	
16	1,856	1,858	26.69	103.6	3.00	76.38	3.53	0.00	0.00	0.00	79.91	0.00	
17	2,370	2,372	23.59	103.6	3.00	78.50	4.51	0.00	0.00	0.00	83.01	0.00	
18	2,919	2,920	20.75	103.6	3.00	80.31	5.55	0.00	0.00	0.00	85.85	0.00	
Sum	55.68												

Noise sensitive area: S Receptor-19

WTG		Wind speed: 8.0 m/s											
No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet	
	[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	
1	3,101	3,101	20.48	104.2	3.00	80.83	5.89	0.00	0.00	0.00	86.72	0.00	
2	2,947	2,947	21.21	104.2	3.00	80.39	5.60	0.00	0.00	0.00	85.99	0.00	
3	2,373	2,374	24.18	104.2	3.00	78.51	4.51	0.00	0.00	0.00	83.02	0.00	
4	1,246	1,248	31.90	104.2	3.00	72.93	2.37	0.00	0.00	0.00	75.30	0.00	
5	951	954	34.80	104.2	3.00	70.59	1.81	0.00	0.00	0.00	72.40	0.00	
6	616	620	39.17	104.2	3.00	66.85	1.18	0.00	0.00	0.00	68.03	0.00	
7	194	208	49.46	104.2	3.00	57.34	0.39	0.00	0.00	0.00	57.74	0.00	
8	192	206	49.53	104.2	3.00	57.28	0.39	0.00	0.00	0.00	57.67	0.00	
9	706	711	37.22	103.6	3.00	68.03	1.35	0.00	0.00	0.00	69.38	0.00	
10	1,219	1,222	31.54	103.6	3.00	72.74	2.32	0.00	0.00	0.00	75.06	0.00	
11	1,745	1,747	27.43	103.6	3.00	75.85	3.32	0.00	0.00	0.00	79.17	0.00	
12	1,184	1,187	31.86	103.6	3.00	72.49	2.26	0.00	0.00	0.00	74.74	0.00	
13	609	614	38.66	103.6	3.00	66.77	1.17	0.00	0.00	0.00	67.94	0.00	
14	1,300	1,302	30.83	103.6	3.00	73.29	2.47	0.00	0.00	0.00	75.77	0.00	
15	1,705	1,707	27.71	103.6	3.00	75.65	3.24	0.00	0.00	0.00	78.89	0.00	
16	2,137	2,139	24.93	103.6	3.00	77.60	4.06	0.00	0.00	0.00	81.67	0.00	
17	2,653	2,654	22.08	103.6	3.00	79.48	5.04	0.00	0.00	0.00	84.52	0.00	
18	3,202	3,203	19.40	103.6	3.00	81.11	6.09	0.00	0.00	0.00	87.20	0.00	
Sum	53.22												

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DECIBEL - Detailed results**Calculation:** Alternative S88 V3Noise calculation model: ISO 9613-2 General 8.0 m/s**Noise sensitive area: T Nearest land Boundary WTG1**

WTG		Wind speed: 8.0 m/s										
No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	40	81	57.84	104.2	3.00	49.20	0.15	0.00	0.00	0.00	49.36	0.00
2	167	181	50.68	104.2	3.00	56.18	0.34	0.00	0.00	0.00	56.52	0.00
3	737	740	37.40	104.2	3.00	68.39	1.41	0.00	0.00	0.00	69.80	0.00
4	1,860	1,861	27.27	104.2	3.00	76.40	3.54	0.00	0.00	0.00	79.93	0.00
5	2,158	2,159	25.41	104.2	3.00	77.69	4.10	0.00	0.00	0.00	81.79	0.00
6	2,490	2,491	23.54	104.2	3.00	78.93	4.73	0.00	0.00	0.00	83.66	0.00
7	2,914	2,915	21.37	104.2	3.00	80.29	5.54	0.00	0.00	0.00	85.83	0.00
8	3,295	3,296	19.58	104.2	3.00	81.36	6.26	0.00	0.00	0.00	87.62	0.00
9	3,813	3,813	16.73	103.6	3.00	82.63	7.25	0.00	0.00	0.00	89.87	0.00
10	4,325	4,326	14.66	103.6	3.00	83.72	8.22	0.00	0.00	0.00	91.94	0.00
11	4,850	4,850	12.67	103.6	3.00	84.72	9.22	0.00	0.00	0.00	93.93	0.00
12	4,152	4,153	15.34	103.6	3.00	83.37	7.89	0.00	0.00	0.00	91.26	0.00
13	3,278	3,279	19.06	103.6	3.00	81.31	6.23	0.00	0.00	0.00	87.54	0.00
14	2,025	2,026	25.62	103.6	3.00	77.13	3.85	0.00	0.00	0.00	80.98	0.00
15	1,606	1,608	28.42	103.6	3.00	75.13	3.06	0.00	0.00	0.00	78.18	0.00
16	1,218	1,221	31.55	103.6	3.00	72.73	2.32	0.00	0.00	0.00	75.05	0.00
17	808	812	35.87	103.6	3.00	69.19	1.54	0.00	0.00	0.00	70.73	0.00
18	557	562	39.54	103.6	3.00	65.99	1.07	0.00	0.00	0.00	67.06	0.00
Sum	58.74											

Noise sensitive area: U Nearest land Boundary WTG2

WTG		Wind speed: 8.0 m/s										
No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	201	213	49.21	104.2	3.00	57.59	0.41	0.00	0.00	0.00	57.99	0.00
2	48	86	57.37	104.2	3.00	49.66	0.16	0.00	0.00	0.00	49.83	0.00
3	579	583	39.77	104.2	3.00	66.32	1.11	0.00	0.00	0.00	67.43	0.00
4	1,708	1,709	28.30	104.2	3.00	75.65	3.25	0.00	0.00	0.00	78.90	0.00
5	2,002	2,003	26.36	104.2	3.00	77.03	3.81	0.00	0.00	0.00	80.84	0.00
6	2,336	2,337	24.39	104.2	3.00	78.37	4.44	0.00	0.00	0.00	82.81	0.00
7	2,759	2,760	22.14	104.2	3.00	79.82	5.24	0.00	0.00	0.00	85.06	0.00
8	3,139	3,140	20.29	104.2	3.00	80.94	5.97	0.00	0.00	0.00	86.91	0.00
9	3,657	3,658	17.38	103.6	3.00	82.27	6.95	0.00	0.00	0.00	89.22	0.00
10	4,169	4,170	15.27	103.6	3.00	83.40	7.92	0.00	0.00	0.00	91.33	0.00
11	4,693	4,694	13.25	103.6	3.00	84.43	8.92	0.00	0.00	0.00	93.35	0.00
12	3,984	3,985	16.02	103.6	3.00	83.01	7.57	0.00	0.00	0.00	90.58	0.00
13	3,108	3,109	19.84	103.6	3.00	80.85	5.91	0.00	0.00	0.00	86.76	0.00
14	1,849	1,851	26.74	103.6	3.00	76.35	3.52	0.00	0.00	0.00	79.86	0.00
15	1,427	1,429	29.78	103.6	3.00	74.10	2.72	0.00	0.00	0.00	76.82	0.00
16	1,036	1,039	33.30	103.6	3.00	71.33	1.97	0.00	0.00	0.00	73.30	0.00
17	637	642	38.23	103.6	3.00	67.15	1.22	0.00	0.00	0.00	68.37	0.00
18	503	508	40.51	103.6	3.00	65.13	0.97	0.00	0.00	0.00	66.09	0.00
Sum	58.21											

Noise sensitive area: V Nearest land Boundary WTG3

WTG		Wind speed: 8.0 m/s										
No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	737	740	37.41	104.2	3.00	68.38	1.41	0.00	0.00	0.00	69.79	0.00
2	570	574	39.92	104.2	3.00	66.19	1.09	0.00	0.00	0.00	67.28	0.00
3	49	87	57.24	104.2	3.00	49.80	0.17	0.00	0.00	0.00	49.96	0.00
4	1,141	1,143	32.87	104.2	3.00	72.16	2.17	0.00	0.00	0.00	74.33	0.00
5	1,432	1,434	30.34	104.2	3.00	74.13	2.72	0.00	0.00	0.00	76.86	0.00
6	1,767	1,768	27.89	104.2	3.00	75.95	3.36	0.00	0.00	0.00	79.31	0.00
7	2,189	2,191	25.23	104.2	3.00	77.81	4.16	0.00	0.00	0.00	81.97	0.00
8	2,570	2,571	23.11	104.2	3.00	79.20	4.88	0.00	0.00	0.00	84.09	0.00
9	3,088	3,089	19.94	103.6	3.00	80.80	5.87	0.00	0.00	0.00	86.66	0.00
10	3,599	3,600	17.63	103.6	3.00	82.13	6.84	0.00	0.00	0.00	88.97	0.00

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DECIBEL - Detailed results**Calculation: Alternative S88 V3Noise calculation model: ISO 9613-2 General 8.0 m/s**

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WTG		Wind speed: 8.0 m/s											
No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet	
	[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	
11	4,123	4,123	15.46	103.6	3.00	83.30	7.83	0.00	0.00	0.00	91.14	0.00	
12	3,417	3,418	18.43	103.6	3.00	81.67	6.49	0.00	0.00	0.00	88.17	0.00	
13	2,543	2,544	22.65	103.6	3.00	79.11	4.83	0.00	0.00	0.00	83.95	0.00	
14	1,300	1,302	30.83	103.6	3.00	73.29	2.47	0.00	0.00	0.00	75.77	0.00	
15	900	903	34.77	103.6	3.00	70.12	1.72	0.00	0.00	0.00	71.83	0.00	
16	592	598	38.94	103.6	3.00	66.53	1.14	0.00	0.00	0.00	67.66	0.00	
17	538	544	39.86	103.6	3.00	65.71	1.03	0.00	0.00	0.00	66.74	0.00	
18	890	893	34.88	103.6	3.00	70.02	1.70	0.00	0.00	0.00	71.72	0.00	
Sum	57.59												

Noise sensitive area: W Nearest land Boundary WTG4

WTG		Wind speed: 8.0 m/s											
No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet	
	[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	
1	1,853	1,854	27.31	104.2	3.00	76.36	3.52	0.00	0.00	0.00	79.89	0.00	
2	1,701	1,703	28.34	104.2	3.00	75.62	3.24	0.00	0.00	0.00	78.86	0.00	
3	1,131	1,133	32.96	104.2	3.00	72.09	2.15	0.00	0.00	0.00	74.24	0.00	
4	39	83	57.68	104.2	3.00	49.37	0.16	0.00	0.00	0.00	49.52	0.00	
5	317	326	45.31	104.2	3.00	61.27	0.62	0.00	0.00	0.00	61.89	0.00	
6	636	640	38.86	104.2	3.00	67.13	1.22	0.00	0.00	0.00	68.34	0.00	
7	1,058	1,061	33.67	104.2	3.00	71.51	2.02	0.00	0.00	0.00	73.53	0.00	
8	1,439	1,441	30.29	104.2	3.00	74.17	2.74	0.00	0.00	0.00	76.91	0.00	
9	1,955	1,957	26.05	103.6	3.00	76.83	3.72	0.00	0.00	0.00	80.55	0.00	
10	2,468	2,470	23.06	103.6	3.00	78.85	4.69	0.00	0.00	0.00	83.54	0.00	
11	2,994	2,995	20.38	103.6	3.00	80.53	5.69	0.00	0.00	0.00	86.22	0.00	
12	2,348	2,349	23.72	103.6	3.00	78.42	4.46	0.00	0.00	0.00	82.88	0.00	
13	1,511	1,513	29.13	103.6	3.00	74.60	2.87	0.00	0.00	0.00	77.47	0.00	
14	632	638	38.30	103.6	3.00	67.09	1.21	0.00	0.00	0.00	68.30	0.00	
15	720	724	37.02	103.6	3.00	68.20	1.38	0.00	0.00	0.00	69.58	0.00	
16	1,036	1,040	33.29	103.6	3.00	71.34	1.98	0.00	0.00	0.00	73.31	0.00	
17	1,489	1,492	29.29	103.6	3.00	74.47	2.83	0.00	0.00	0.00	77.31	0.00	
18	1,999	2,001	25.77	103.6	3.00	77.02	3.80	0.00	0.00	0.00	80.83	0.00	
Sum	58.13												

Noise sensitive area: X Nearest land Boundary WTG5

WTG		Wind speed: 8.0 m/s											
No.	Distance	Sound distance	Calculated	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A	Cmet	
	[m]	[m]	[dB(A)]	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	
1	2,132	2,133	25.57	104.2	3.00	77.58	4.05	0.00	0.00	0.00	81.63	0.00	
2	1,974	1,975	26.53	104.2	3.00	76.91	3.75	0.00	0.00	0.00	80.67	0.00	
3	1,400	1,402	30.60	104.2	3.00	73.93	2.66	0.00	0.00	0.00	76.60	0.00	
4	293	300	46.08	104.2	3.00	60.55	0.57	0.00	0.00	0.00	61.12	0.00	
5	44	84	57.55	104.2	3.00	49.49	0.16	0.00	0.00	0.00	49.65	0.00	
6	364	370	44.13	104.2	3.00	62.37	0.70	0.00	0.00	0.00	63.07	0.00	
7	783	786	36.79	104.2	3.00	68.91	1.49	0.00	0.00	0.00	70.41	0.00	
8	1,162	1,165	32.66	104.2	3.00	72.32	2.21	0.00	0.00	0.00	74.54	0.00	
9	1,680	1,682	27.89	103.6	3.00	75.52	3.20	0.00	0.00	0.00	78.71	0.00	
10	2,192	2,193	24.61	103.6	3.00	77.82	4.17	0.00	0.00	0.00	81.99	0.00	
11	2,715	2,716	21.76	103.6	3.00	79.68	5.16	0.00	0.00	0.00	84.84	0.00	
12	2,044	2,045	25.50	103.6	3.00	77.21	3.89	0.00	0.00	0.00	81.10	0.00	
13	1,201	1,203	31.70	103.6	3.00	72.61	2.29	0.00	0.00	0.00	74.90	0.00	
14	521	527	40.17	103.6	3.00	65.43	1.00	0.00	0.00	0.00	66.43	0.00	
15	796	799	36.03	103.6	3.00	69.05	1.52	0.00	0.00	0.00	70.57	0.00	
16	1,193	1,196	31.77	103.6	3.00	72.55	2.27	0.00	0.00	0.00	74.83	0.00	
17	1,691	1,692	27.81	103.6	3.00	75.57	3.22	0.00	0.00	0.00	78.79	0.00	
18	2,229	2,231	24.39	103.6	3.00	77.97	4.24	0.00	0.00	0.00	82.21	0.00	
Sum	58.22												

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DECIBEL - Detailed results**Calculation:** Alternative S88 V3Noise calculation model: ISO 9613-2 General 8.0 m/s**Noise sensitive area: Y Nearest land Boundary WTG6**

WTG		Wind speed: 8.0 m/s										
No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	2,485	2,486	23.57	104.2	3.00	78.91	4.72	0.00	0.00	0.00	83.63	0.00
2	2,328	2,330	24.43	104.2	3.00	78.35	4.43	0.00	0.00	0.00	82.77	0.00
3	1,754	1,756	27.97	104.2	3.00	75.89	3.34	0.00	0.00	0.00	79.23	0.00
4	634	638	38.90	104.2	3.00	67.09	1.21	0.00	0.00	0.00	68.30	0.00
5	332	340	44.93	104.2	3.00	61.62	0.65	0.00	0.00	0.00	62.27	0.00
6	51	88	57.19	104.2	3.00	49.84	0.17	0.00	0.00	0.00	50.01	0.00
7	428	434	42.62	104.2	3.00	63.76	0.83	0.00	0.00	0.00	64.58	0.00
8	807	811	36.48	104.2	3.00	69.18	1.54	0.00	0.00	0.00	70.72	0.00
9	1,325	1,327	30.62	103.6	3.00	73.46	2.52	0.00	0.00	0.00	75.98	0.00
10	1,837	1,838	26.82	103.6	3.00	76.29	3.49	0.00	0.00	0.00	79.78	0.00
11	2,361	2,362	23.65	103.6	3.00	78.46	4.49	0.00	0.00	0.00	82.95	0.00
12	1,711	1,713	27.67	103.6	3.00	75.67	3.25	0.00	0.00	0.00	78.93	0.00
13	903	907	34.73	103.6	3.00	70.15	1.72	0.00	0.00	0.00	71.87	0.00
14	744	748	36.70	103.6	3.00	68.48	1.42	0.00	0.00	0.00	69.90	0.00
15	1,108	1,111	32.58	103.6	3.00	71.91	2.11	0.00	0.00	0.00	74.02	0.00
16	1,528	1,530	29.00	103.6	3.00	74.69	2.91	0.00	0.00	0.00	77.60	0.00
17	2,036	2,038	25.55	103.6	3.00	77.18	3.87	0.00	0.00	0.00	81.05	0.00
18	2,581	2,582	22.46	103.6	3.00	79.24	4.91	0.00	0.00	0.00	84.14	0.00
Sum	57.78											

Noise sensitive area: Z Nearest land Boundary WTG7

WTG		Wind speed: 8.0 m/s										
No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	2,901	2,902	21.43	104.2	3.00	80.25	5.51	0.00	0.00	0.00	85.77	0.00
2	2,745	2,746	22.21	104.2	3.00	79.77	5.22	0.00	0.00	0.00	84.99	0.00
3	2,171	2,172	25.33	104.2	3.00	77.74	4.13	0.00	0.00	0.00	81.87	0.00
4	1,048	1,051	33.77	104.2	3.00	71.43	2.00	0.00	0.00	0.00	73.43	0.00
5	748	752	37.25	104.2	3.00	68.52	1.43	0.00	0.00	0.00	69.95	0.00
6	418	424	42.85	104.2	3.00	63.54	0.81	0.00	0.00	0.00	64.35	0.00
7	51	88	57.17	104.2	3.00	49.86	0.17	0.00	0.00	0.00	50.03	0.00
8	391	398	43.45	104.2	3.00	62.99	0.76	0.00	0.00	0.00	63.75	0.00
9	909	912	34.67	103.6	3.00	70.20	1.73	0.00	0.00	0.00	71.93	0.00
10	1,420	1,422	29.84	103.6	3.00	74.06	2.70	0.00	0.00	0.00	76.76	0.00
11	1,944	1,945	26.12	103.6	3.00	76.78	3.70	0.00	0.00	0.00	80.48	0.00
12	1,325	1,327	30.62	103.6	3.00	73.46	2.52	0.00	0.00	0.00	75.98	0.00
13	614	619	38.60	103.6	3.00	66.83	1.18	0.00	0.00	0.00	68.00	0.00
14	1,088	1,090	32.78	103.6	3.00	71.75	2.07	0.00	0.00	0.00	73.82	0.00
15	1,492	1,494	29.28	103.6	3.00	74.48	2.84	0.00	0.00	0.00	77.32	0.00
16	1,924	1,926	26.25	103.6	3.00	76.69	3.66	0.00	0.00	0.00	80.35	0.00
17	2,440	2,442	23.21	103.6	3.00	78.75	4.64	0.00	0.00	0.00	83.39	0.00
18	2,991	2,992	20.39	103.6	3.00	80.52	5.69	0.00	0.00	0.00	86.21	0.00
Sum	57.69											

Noise sensitive area: AA Nearest land Boundary WTG8

WTG		Wind speed: 8.0 m/s										
No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	3,290	3,291	19.60	104.2	3.00	81.35	6.25	0.00	0.00	0.00	87.60	0.00
2	3,134	3,135	20.32	104.2	3.00	80.92	5.96	0.00	0.00	0.00	86.88	0.00
3	2,560	2,561	23.16	104.2	3.00	79.17	4.87	0.00	0.00	0.00	84.04	0.00
4	1,436	1,438	30.31	104.2	3.00	74.15	2.73	0.00	0.00	0.00	76.89	0.00
5	1,137	1,139	32.90	104.2	3.00	72.13	2.16	0.00	0.00	0.00	74.30	0.00
6	805	808	36.51	104.2	3.00	69.15	1.54	0.00	0.00	0.00	70.69	0.00
7	383	390	43.64	104.2	3.00	62.82	0.74	0.00	0.00	0.00	63.56	0.00
8	33	79	58.07	104.2	3.00	48.98	0.15	0.00	0.00	0.00	49.13	0.00
9	521	526	40.18	103.6	3.00	65.42	1.00	0.00	0.00	0.00	66.42	0.00
10	1,031	1,034	33.35	103.6	3.00	71.29	1.96	0.00	0.00	0.00	73.25	0.00

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DECIBEL - Detailed results**Calculation:** Alternative S88 V3Noise calculation model: ISO 9613-2 General 8.0 m/s

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WTG**Wind speed: 8.0 m/s**

No.	Distance [m]	Sound distance [m]	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
11	1,555	1,557	28.80	103.6	3.00	74.84	2.96	0.00	0.00	0.00	77.80	0.00
12	990	993	33.78	103.6	3.00	70.94	1.89	0.00	0.00	0.00	72.82	0.00
13	534	539	39.94	103.6	3.00	65.64	1.03	0.00	0.00	0.00	66.66	0.00
14	1,445	1,447	29.64	103.6	3.00	74.21	2.75	0.00	0.00	0.00	76.96	0.00
15	1,864	1,865	26.64	103.6	3.00	76.42	3.54	0.00	0.00	0.00	79.96	0.00
16	2,301	2,303	23.98	103.6	3.00	78.24	4.37	0.00	0.00	0.00	82.62	0.00
17	2,822	2,823	21.22	103.6	3.00	80.01	5.36	0.00	0.00	0.00	85.38	0.00
18	3,376	3,377	18.61	103.6	3.00	81.57	6.42	0.00	0.00	0.00	87.99	0.00

Sum 58.45

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DECIBEL - Assumptions for noise calculation**Calculation:** Alternative S88 V3 **Noise calculation model:** ISO 9613-2 General 8.0 m/s**Noise calculation model:**

ISO 9613-2 General

Wind speed:

8.0 m/s

Ground attenuation:

None

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:

2.0 m Don't 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)

Octave data not required

Air absorption: 1.9 dB/km

WTG: Suzlon S64 1250 64.0 !O!**Noise:** Runtime input

Source	Source/Date	Creator	Edited
	30/12/1899	USER	30/12/1899 00:00

Status	Hub height [m]	Wind speed [m/s]	LwA,ref [dB(A)]	Pure tones
User value	74.0	8.0	104.2	No

WTG: Suzlon S88 2100 88.0 !O!**Noise:** WD 90022 S88 V3

Source	Source/Date	Creator	Edited
	12/06/2007	USER	27/08/2009 12:11

Status	Hub height [m]	Wind speed [m/s]	LwA,ref [dB(A)]	Pure tones
From Windcat	79.0	8.0	103.6	No

NSA: Receptor-1-A**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Receptor-2-B**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m

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DECIBEL - Assumptions for noise calculation**Calculation:** Alternative S88 V3 **Noise calculation model:** ISO 9613-2 General 8.0 m/s**NSA:** Receptor-3-C**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Receptor-4-D**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Receptor-5-E**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Receptor-6-F**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:**

6.0 [m/s] 8.0 [m/s]

0.0 dB(A) 0.0 dB(A)

Distance demand: 0.0 m**NSA:** Receptor-7-G**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Receptor-8-H**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Receptor-9-I**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model

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DECIBEL - Assumptions for noise calculation**Calculation:** Alternative S88 V3 **Noise calculation model:** ISO 9613-2 General 8.0 m/s**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Receptor-10-J**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Receptor-11-K**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Receptor-12-L**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Receptor-13-M**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Receptor-14-N**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:**

6.0 [m/s] 8.0 [m/s]

0.0 dB(A) 0.0 dB(A)

Distance demand: 0.0 m**NSA:** Receptor-15-O**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m

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DECIBEL - Assumptions for noise calculation**Calculation:** Alternative S88 V3 **Noise calculation model:** ISO 9613-2 General 8.0 m/s**NSA:** Receptor-16-P**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Receptor-17-Q**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Receptor-18-R**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Receptor-19-S**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Nearest land Boundary WTG1-T**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Nearest land Boundary WTG2-U**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Nearest land Boundary WTG3-V**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)

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DECIBEL - Assumptions for noise calculation**Calculation:** Alternative S88 V3 **Noise calculation model:** ISO 9613-2 General 8.0 m/s**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Nearest land Boundary WTG4-W**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:**

6.0 [m/s] 8.0 [m/s]

0.0 dB(A) 0.0 dB(A)

Distance demand: 0.0 m**NSA:** Nearest land Boundary WTG5-X**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Nearest land Boundary WTG6-Y**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Nearest land Boundary WTG7-Z**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m**NSA:** Nearest land Boundary WTG8-AA**Predefined calculation standard:****Imission height(a.g.l.):** Use standard value from calculation model**Noise demand:** 0.0 dB(A)**Ambient noise:** 0.0 dB(A)**Margin or Allowed additional exposure:** 0.0 dB(A)**Sound level always accepted:** 0.0 dB(A)**Distance demand:** 0.0 m

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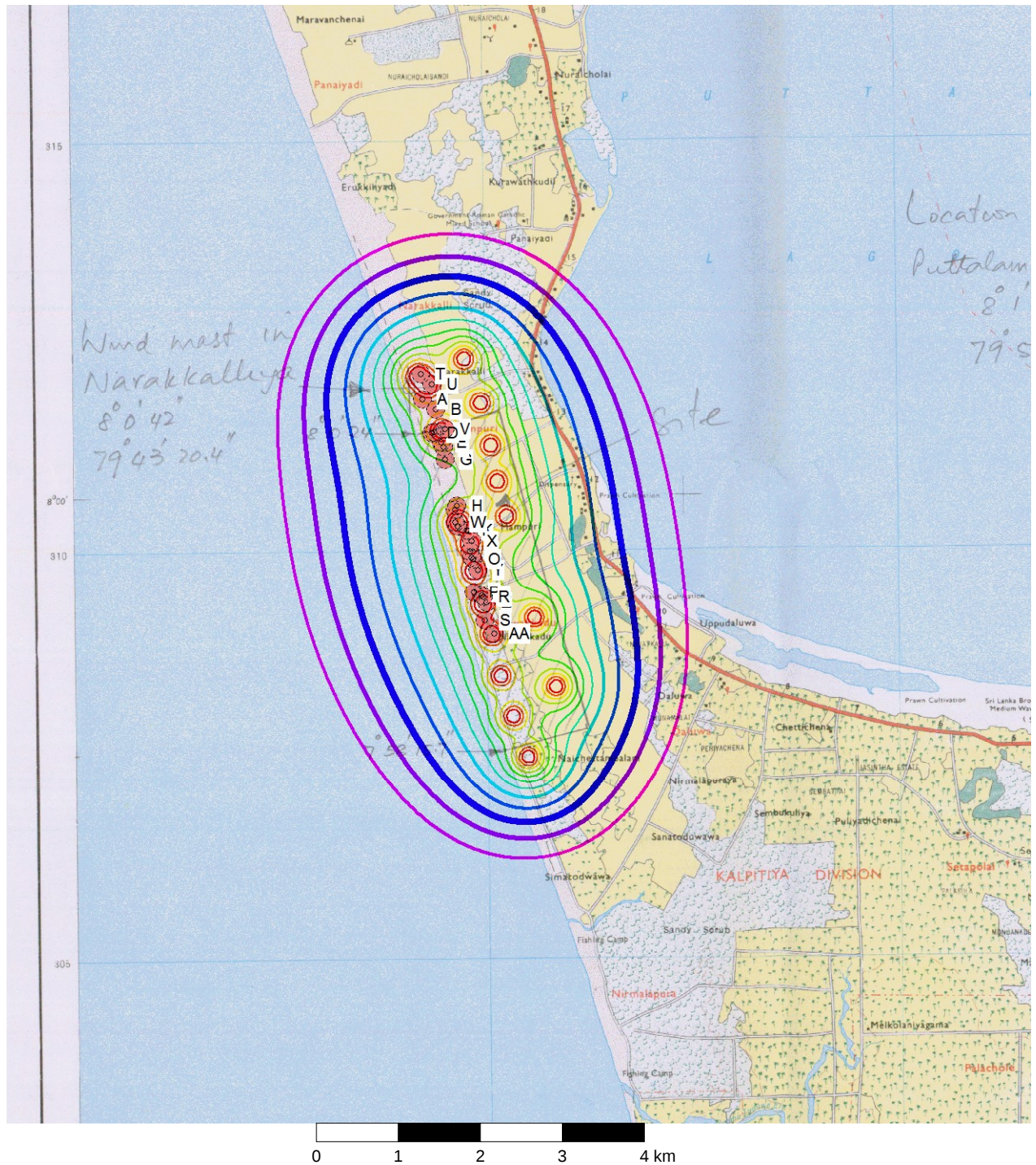
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DECIBEL - Map 8.0 m/s**Calculation:** Alternative S88 V3Noise calculation model: ISO 9613-2 General 8.0 m/s

Noise sensitive area

Height above sea level from active line object

