

12 Betriebsmodus 450 kW s

12.1 Terzbandpegel NH

Tab. 82: Terzbandpegel in dB(A), bezogen auf Windgeschwindigkeit v_H in Nabenhöhe

Terzbandmitten- frequenz in Hz	v_H in m/s										
	5	5,5	6	6,5	7	7,5	8	8,5	9	9,5	10
20	52,9	53,3	53,3	53,2	53,1	53,1	53,1	53,1	53,1	53,1	53,1
25	58,8	59,3	59,2	59,1	59,1	59,1	59,0	59,0	59,0	59,0	59,0
31,5	64,0	64,5	64,4	64,3	64,3	64,3	64,2	64,2	64,2	64,2	64,2
40	68,6	69,0	68,9	68,8	68,8	68,8	68,7	68,7	68,7	68,7	68,7
50	72,4	72,8	72,8	72,7	72,6	72,6	72,6	72,6	72,6	72,6	72,6
63	75,8	76,1	76,1	76,0	75,9	75,9	75,9	75,9	75,9	75,9	75,9
80	78,6	79,0	78,9	78,8	78,7	78,7	78,7	78,7	78,7	78,7	78,7
100	80,7	81,0	80,9	80,8	80,8	80,8	80,7	80,7	80,7	80,7	80,7
125	81,9	82,1	82,0	81,9	81,8	81,8	81,8	81,8	81,8	81,8	81,8
160	82,8	82,9	82,7	82,6	82,5	82,5	82,5	82,5	82,5	82,5	82,5
200	83,7	83,7	83,5	83,4	83,3	83,3	83,3	83,3	83,2	83,2	83,3
250	85,0	84,7	84,5	84,4	84,3	84,3	84,2	84,2	84,2	84,2	84,3
315	86,1	85,6	85,4	85,2	85,1	85,1	85,1	85,1	85,1	85,1	85,2
400	87,1	86,4	86,1	86,0	85,9	85,9	85,9	85,9	85,9	86,0	86,0
500	87,5	86,9	86,7	86,6	86,6	86,6	86,6	86,6	86,6	86,6	86,7
630	87,3	87,0	86,9	86,9	86,9	87,0	87,0	87,0	87,0	87,1	87,1
800	86,7	86,7	86,7	86,8	86,8	86,9	87,0	87,1	87,1	87,1	87,2
1000	86,3	86,5	86,6	86,8	86,9	87,0	87,0	87,1	87,2	87,2	87,2
1250	85,9	86,3	86,6	86,8	86,9	87,0	87,0	87,0	87,0	87,0	87,0
1600	85,1	85,8	86,2	86,4	86,5	86,5	86,5	86,4	86,4	86,3	86,2
2000	83,5	84,4	84,8	85,0	85,0	84,9	84,8	84,7	84,6	84,5	84,4
2500	81,3	82,3	82,5	82,6	82,4	82,3	82,1	82,0	81,9	81,8	81,7
3150	78,3	79,3	79,4	79,2	79,0	78,8	78,7	78,5	78,4	78,3	78,2
4000	74,2	75,1	74,9	74,5	74,3	74,1	73,9	73,8	73,7	73,5	73,5
5000	68,5	69,2	68,8	68,3	68,1	67,9	67,7	67,5	67,4	67,3	67,2
6300	60,0	60,6	60,2	59,6	59,3	59,1	58,9	58,7	58,6	58,5	58,4
8000	47,6	48,1	47,7	47,1	46,7	46,5	46,3	46,1	45,9	45,8	45,7
10000	31,3	31,8	31,3	30,6	30,2	29,9	29,7	29,5	29,3	29,2	29,1

Technische Änderungen vorbehalten.

13 Betriebsmodus 300 kW s

13.1 Terzbandpegel NH

Tab. 90: Terzbandpegel in dB(A), bezogen auf Windgeschwindigkeit v_H in Nabenhöhe

Terzbandmitten- frequenz in Hz	v_H in m/s										
	5	5,5	6	6,5	7	7,5	8	8,5	9	9,5	10
20	51,2	51,1	51,0	51,0	51,0	51,0	51,0	51,0	51,0	51,0	51,0
25	57,0	56,9	56,9	56,8	56,8	56,8	56,8	56,8	56,8	56,8	56,8
31,5	62,1	62,0	61,9	61,9	61,9	61,9	61,9	61,9	61,9	61,9	61,9
40	66,5	66,4	66,3	66,3	66,3	66,3	66,3	66,3	66,3	66,3	66,3
50	70,3	70,2	70,1	70,1	70,1	70,1	70,1	70,1	70,1	70,1	70,1
63	73,5	73,4	73,3	73,3	73,3	73,3	73,3	73,3	73,3	73,3	73,3
80	76,3	76,2	76,1	76,0	76,0	76,0	76,0	76,0	76,1	76,1	76,1
100	78,3	78,2	78,1	78,1	78,1	78,0	78,1	78,0	78,1	78,1	78,1
125	79,4	79,2	79,1	79,1	79,1	79,1	79,1	79,1	79,1	79,1	79,1
160	80,2	79,9	79,9	79,8	79,8	79,8	79,8	79,8	79,8	79,8	79,9
200	80,9	80,7	80,6	80,6	80,5	80,6	80,6	80,6	80,6	80,6	80,6
250	81,9	81,7	81,6	81,6	81,5	81,5	81,5	81,6	81,6	81,6	81,7
315	82,8	82,5	82,4	82,4	82,4	82,4	82,4	82,4	82,5	82,5	82,5
400	83,5	83,3	83,2	83,2	83,2	83,2	83,2	83,2	83,3	83,3	83,3
500	83,9	83,8	83,7	83,7	83,8	83,8	83,8	83,8	83,9	83,9	83,9
630	84,0	83,9	84,0	84,0	84,1	84,2	84,2	84,2	84,3	84,3	84,3
800	83,7	83,7	83,8	83,9	84,0	84,1	84,2	84,2	84,3	84,3	84,3
1000	83,6	83,7	83,8	84,0	84,0	84,1	84,2	84,2	84,2	84,1	84,1
1250	83,4	83,7	83,8	83,9	84,0	84,0	84,0	83,9	83,9	83,8	83,7
1600	82,9	83,3	83,4	83,4	83,3	83,3	83,2	83,1	83,0	82,9	82,9
2000	81,5	81,8	81,8	81,7	81,6	81,5	81,4	81,3	81,2	81,1	81,0
2500	79,3	79,5	79,3	79,1	78,9	78,8	78,7	78,6	78,5	78,4	78,4
3150	76,3	76,2	75,8	75,6	75,4	75,3	75,2	75,1	75,0	74,9	74,8
4000	71,9	71,5	71,1	70,9	70,7	70,6	70,4	70,3	70,2	70,1	70,0
5000	65,9	65,3	64,9	64,7	64,5	64,3	64,2	64,1	64,0	63,9	63,8
6300	57,2	56,6	56,2	55,9	55,7	55,5	55,4	55,2	55,1	55,0	54,9
8000	44,8	44,1	43,6	43,3	43,0	42,8	42,7	42,5	42,4	42,3	42,2
10000	28,4	27,6	27,1	26,7	26,5	26,3	26,1	25,9	25,8	25,7	25,6

Technische Änderungen vorbehalten.

Appendix - 1/3rd-Octave Band Apparent Sound Power Level L_{WA,k}

Normal Operation – 1/3 rd -Octave Spectra [dB]												
Hub Height Wind Speed [m/s]	4	5	6	7	8	9	10	11	12	13	14	15
Wind speed at 10 m height for a hub height of 110 m [m/s]	2.8	3.4	4.1	4.8	5.5	6.2	6.9	7.6	8.3	8.9	9.6	10.3
Wind speed at 10 m height for a hub height of 131 m [m/s]	2.7	3.4	4.0	4.7	5.4	6.1	6.7	7.4	8.1	8.8	9.4	10.1
Frequency [Hz]	13	40.1	42.1	46.1	49.5	52.6	54.1	54.6	54.6	54.6	54.6	54.6
	16	45.6	47.6	51.6	55.0	58.1	59.6	60.1	60.1	60.1	60.1	60.1
	20	50.6	52.6	56.6	60.0	63.1	64.6	65.1	65.1	65.1	65.1	65.1
	25	54.8	56.8	60.8	64.2	67.3	68.8	69.3	69.3	69.3	69.3	69.3
	32	58.3	60.3	64.3	67.7	70.8	72.3	72.8	72.8	72.8	72.8	72.8
	40	61.8	63.8	67.8	71.2	74.3	75.8	76.3	76.3	76.3	76.3	76.3
	50	64.9	66.9	70.9	74.3	77.4	78.9	79.4	79.4	79.4	79.4	79.4
	63	67.0	69.0	73.0	76.4	79.5	81.0	81.5	81.5	81.5	81.5	81.5
	80	69.4	71.4	75.4	78.8	81.9	83.4	83.9	83.9	83.9	83.9	83.9
	100	71.3	73.3	77.3	80.7	83.8	85.3	85.8	85.8	85.8	85.8	85.8
	125	73.2	75.2	79.2	82.6	85.7	87.2	87.7	87.7	87.7	87.7	87.7
	160	74.7	76.7	80.7	84.1	87.2	88.7	89.2	89.2	89.2	89.2	89.2
	200	75.9	77.9	81.9	85.3	88.4	89.9	90.4	90.4	90.4	90.4	90.4
	250	77.0	79.0	83.0	86.4	89.5	91.0	91.5	91.5	91.5	91.5	91.5
	315	78.1	80.1	84.1	87.5	90.6	92.1	92.6	92.6	92.6	92.6	92.6
	400	79.2	81.2	85.2	88.6	91.7	93.2	93.7	93.7	93.7	93.7	93.7
	500	80.0	82.0	86.0	89.4	92.5	94.0	94.5	94.5	94.5	94.5	94.5
	630	80.9	82.9	86.9	90.3	93.4	94.9	95.4	95.4	95.4	95.4	95.4
	800	81.9	83.9	87.9	91.3	94.4	95.9	96.4	96.4	96.4	96.4	96.4
1000	82.9	84.9	88.9	92.3	95.4	96.9	97.4	97.4	97.4	97.4	97.4	
1250	83.6	85.6	89.6	93.0	96.1	97.6	98.1	98.1	98.1	98.1	98.1	
1600	83.8	85.8	89.8	93.2	96.3	97.8	98.3	98.3	98.3	98.3	98.3	
2000	83.0	85.0	89.0	92.4	95.5	97.0	97.5	97.5	97.5	97.5	97.5	
2500	80.9	82.9	86.9	90.3	93.4	94.9	95.4	95.4	95.4	95.4	95.4	
3150	77.5	79.5	83.5	86.9	90.0	91.5	92.0	92.0	92.0	92.0	92.0	
4000	73.3	75.3	79.3	82.7	85.8	87.3	87.8	87.8	87.8	87.8	87.8	
5000	68.2	70.2	74.2	77.6	80.7	82.2	82.7	82.7	82.7	82.7	82.7	
6300	63.2	65.2	69.2	72.6	75.7	77.2	77.7	77.7	77.7	77.7	77.7	
8000	58.1	60.1	64.1	67.5	70.6	72.1	72.6	72.6	72.6	72.6	72.6	
10000	53.1	55.1	59.1	62.5	65.6	67.1	67.6	67.6	67.6	67.6	67.6	
Total Sound Power Level [dB]	92.5	94.5	98.5	101.9	105.0	106.5	107.0	107.0	107.0	107.0	107.0	107.0

Table 2: Apparent 1/3rd-Octave Band Sound Power Levels (A-weighted) as function of Wind Speed

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Annex II - 1/3rd-Octave Band Apparent Sound Power Level L_{WA,k}

NRO 106 - 1/3 rd -Octave Spectra [dB]												
Hub Height Wind Speed [m/s]	4	5	6	7	8	9	10	11	12	13	14	15
Wind speed at 10 m height for a hub height of 110 m [m/s]	2.8	3.4	4.1	4.8	5.5	6.2	6.9	7.6	8.3	8.9	9.6	10.3
Wind speed at 10 m height for a hub height of 131.4 m [m/s]	2.7	3.4	4.0	4.7	5.4	6.1	6.7	7.4	8.1	8.8	9.4	10.1
Frequency [Hz]	12.5	40.1	42.1	46.1	49.5	52.6	53.6	53.6	53.6	53.6	53.6	53.6
	16	45.6	47.6	51.6	55.0	58.1	59.1	59.1	59.1	59.1	59.1	59.1
	20	50.6	52.6	56.6	60.0	63.1	64.1	64.1	64.1	64.1	64.1	64.1
	25	54.8	56.8	60.8	64.2	67.3	68.3	68.3	68.3	68.3	68.3	68.3
	32	58.3	60.3	64.3	67.7	70.8	71.8	71.8	71.8	71.8	71.8	71.8
	40	61.8	63.8	67.8	71.2	74.3	75.3	75.3	75.3	75.3	75.3	75.3
	50	64.9	66.9	70.9	74.3	77.4	78.4	78.4	78.4	78.4	78.4	78.4
	63	67.0	69.0	73.0	76.4	79.5	80.5	80.5	80.5	80.5	80.5	80.5
	80	69.4	71.4	75.4	78.8	81.9	82.9	82.9	82.9	82.9	82.9	82.9
	100	71.3	73.3	77.3	80.7	83.8	84.8	84.8	84.8	84.8	84.8	84.8
	125	73.2	75.2	79.2	82.6	85.7	86.7	86.7	86.7	86.7	86.7	86.7
	160	74.7	76.7	80.7	84.1	87.2	88.2	88.2	88.2	88.2	88.2	88.2
	200	75.9	77.9	81.9	85.3	88.4	89.4	89.4	89.4	89.4	89.4	89.4
	250	77.0	79.0	83.0	86.4	89.5	90.5	90.5	90.5	90.5	90.5	90.5
	315	78.1	80.1	84.1	87.5	90.6	91.6	91.6	91.6	91.6	91.6	91.6
	400	79.2	81.2	85.2	88.6	91.7	92.7	92.7	92.7	92.7	92.7	92.7
	500	80.0	82.0	86.0	89.4	92.5	93.5	93.5	93.5	93.5	93.5	93.5
	630	80.9	82.9	86.9	90.3	93.4	94.4	94.4	94.4	94.4	94.4	94.4
	800	81.9	83.9	87.9	91.3	94.4	95.4	95.4	95.4	95.4	95.4	95.4
1000	82.9	84.9	88.9	92.3	95.4	96.4	96.4	96.4	96.4	96.4	96.4	
1250	83.6	85.6	89.6	93.0	96.1	97.1	97.1	97.1	97.1	97.1	97.1	
1600	83.8	85.8	89.8	93.2	96.3	97.3	97.3	97.3	97.3	97.3	97.3	
2000	83.0	85.0	89.0	92.4	95.5	96.5	96.5	96.5	96.5	96.5	96.5	
2500	80.9	82.9	86.9	90.3	93.4	94.4	94.4	94.4	94.4	94.4	94.4	
3150	77.5	79.5	83.5	86.9	90.0	91.0	91.0	91.0	91.0	91.0	91.0	
4000	73.3	75.3	79.3	82.7	85.8	86.8	86.8	86.8	86.8	86.8	86.8	
5000	68.2	70.2	74.2	77.6	80.7	81.7	81.7	81.7	81.7	81.7	81.7	
6300	63.2	65.2	69.2	72.6	75.7	76.7	76.7	76.7	76.7	76.7	76.7	
8000	58.1	60.1	64.1	67.5	70.6	71.6	71.6	71.6	71.6	71.6	71.6	
10000	53.1	55.1	59.1	62.5	65.6	66.6	66.6	66.6	66.6	66.6	66.6	
Total Sound Power Level [dB]	92.5	94.5	98.5	101.9	105.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0

Table 10: NRO 106 1/3rd-Octave Band Sound Power Levels as a function of wind speeds

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NRO 105 ¹ - 1/3 rd -Octave Spectra [dB]												
Hub Height Wind Speed [m/s]	4	5	6	7	8	9	10	11	12	13	14	15
Wind speed at 10 m height for a hub height of 110 m [m/s]	2.8	3.4	4.1	4.8	5.5	6.2	6.9	7.6	8.3	8.9	9.6	10.3
Frequency [Hz]	12.5	40.1	42.1	46.1	49.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6
	16	45.6	47.6	51.6	55.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1
	20	50.6	52.6	56.6	60.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1
	25	54.8	56.8	60.8	64.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3
	32	58.3	60.3	64.3	67.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8
	40	61.8	63.8	67.8	71.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3
	50	64.9	66.9	70.9	74.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4
	63	67.0	69.0	73.0	76.4	79.5	79.5	79.5	79.5	79.5	79.5	79.5
	80	69.4	71.4	75.4	78.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9
	100	71.3	73.3	77.3	80.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8
	125	73.2	75.2	79.2	82.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7
	160	74.7	76.7	80.7	84.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2
	200	75.9	77.9	81.9	85.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4
	250	77.0	79.0	83.0	86.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5
	315	78.1	80.1	84.1	87.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6
	400	79.2	81.2	85.2	88.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7
	500	80.0	82.0	86.0	89.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5
	630	80.9	82.9	86.9	90.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4
	800	81.9	83.9	87.9	91.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4
	1000	82.9	84.9	88.9	92.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4
1250	83.6	85.6	89.6	93.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	
1600	83.8	85.8	89.8	93.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	
2000	83.0	85.0	89.0	92.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	
2500	80.9	82.9	86.9	90.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	
3150	77.5	79.5	83.5	86.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
4000	73.3	75.3	79.3	82.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	
5000	68.2	70.2	74.2	77.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	
6300	63.2	65.2	69.2	72.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	
8000	58.1	60.1	64.1	67.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	
10000	53.1	55.1	59.1	62.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	
Total Sound Power Level [dB]	92.5	94.5	98.5	101.9	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0

Table 11: NRO 105 1/3rd-Octave Band Sound Power Levels as a function of wind speeds

¹ Not available for the 131.4 m hub height steel tower

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NRO 104 ¹ - 1/3 rd -Octave Spectra [dB]												
Hub Height Wind Speed [m/s]	4	5	6	7	8	9	10	11	12	13	14	15
Wind speed at 10 m height for a hub height of 110 m [m/s]	2.8	3.4	4.1	4.8	5.5	6.2	6.9	7.6	8.3	8.9	9.6	10.3
Frequency [Hz]	12.5	40.1	42.1	46.1	49.5	51.6	51.6	51.6	51.6	51.6	51.6	51.6
	16	45.6	47.6	51.6	55.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1
	20	50.6	52.6	56.6	60.0	62.1	62.1	62.1	62.1	62.1	62.1	62.1
	25	54.8	56.8	60.8	64.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3
	32	58.3	60.3	64.3	67.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8
	40	61.8	63.8	67.8	71.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3
	50	64.9	66.9	70.9	74.3	76.4	76.4	76.4	76.4	76.4	76.4	76.4
	63	67.0	69.0	73.0	76.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5
	80	69.4	71.4	75.4	78.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9
	100	71.3	73.3	77.3	80.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8
	125	73.2	75.2	79.2	82.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7
	160	74.7	76.7	80.7	84.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	200	75.9	77.9	81.9	85.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4
	250	77.0	79.0	83.0	86.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5
	315	78.1	80.1	84.1	87.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6
	400	79.2	81.2	85.2	88.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7
	500	80.0	82.0	86.0	89.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5
	630	80.9	82.9	86.9	90.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4
	800	81.9	83.9	87.9	91.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4
	1000	82.9	84.9	88.9	92.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4
1250	83.6	85.6	89.6	93.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	
1600	83.8	85.8	89.8	93.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	
2000	83.0	85.0	89.0	92.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	
2500	80.9	82.9	86.9	90.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	
3150	77.5	79.5	83.5	86.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	
4000	73.3	75.3	79.3	82.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	
5000	68.2	70.2	74.2	77.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	
6300	63.2	65.2	69.2	72.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	
8000	58.1	60.1	64.1	67.5	69.6	69.6	69.6	69.6	69.6	69.6	69.6	
10000	53.1	55.1	59.1	62.5	64.6	64.6	64.6	64.6	64.6	64.6	64.6	
Total Sound Power Level [dB]	92.5	94.5	98.5	101.9	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0

Table 12: NRO 104 1/3rd-Octave Band Sound Power Levels as a function of wind speeds

¹ Not available for the 131.4 m hub height steel tower

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NRO 103 - 1/3 rd -Octave Spectra [dB]												
Hub Height Wind Speed [m/s]	4	5	6	7	8	9	10	11	12	13	14	15
Wind speed at 10 m height for a hub height of 110 m [m/s]	2.8	3.4	4.1	4.8	5.5	6.2	6.9	7.6	8.3	8.9	9.6	10.3
Wind speed at 10 m height for a hub height of 131.4 m [m/s]	2.7	3.4	4.0	4.7	5.4	6.1	6.7	7.4	8.1	8.8	9.4	10.1
Frequency [Hz]	12.5	40.1	42.1	46.1	49.5	50.6	50.6	50.6	50.6	50.6	50.6	50.6
	16	45.6	47.6	51.6	55.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1
	20	50.6	52.6	56.6	60.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1
	25	54.8	56.8	60.8	64.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3
	32	58.3	60.3	64.3	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8
	40	61.8	63.8	67.8	71.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3
	50	64.9	66.9	70.9	74.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4
	63	67.0	69.0	73.0	76.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5
	80	69.4	71.4	75.4	78.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9
	100	71.3	73.3	77.3	80.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8
	125	73.2	75.2	79.2	82.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7
	160	74.7	76.7	80.7	84.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2
	200	75.9	77.9	81.9	85.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4
	250	77.0	79.0	83.0	86.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5
	315	78.1	80.1	84.1	87.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6
	400	79.2	81.2	85.2	88.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7
	500	80.0	82.0	86.0	89.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5
	630	80.9	82.9	86.9	90.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4
	800	81.9	83.9	87.9	91.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4
	1000	82.9	84.9	88.9	92.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4
1250	83.6	85.6	89.6	93.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	
1600	83.8	85.8	89.8	93.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
2000	83.0	85.0	89.0	92.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	
2500	80.9	82.9	86.9	90.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	
3150	77.5	79.5	83.5	86.9	88.0	88.0	88.0	88.0	88.0	88.0	88.0	
4000	73.3	75.3	79.3	82.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	
5000	68.2	70.2	74.2	77.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	
6300	63.2	65.2	69.2	72.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7	
8000	58.1	60.1	64.1	67.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	
10000	53.1	55.1	59.1	62.5	63.6	63.6	63.6	63.6	63.6	63.6	63.6	
Total Sound Power Level [dB]	92.5	94.5	98.5	101.9	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0

Table 13: NRO 103 1/3rd-Octave Band Sound Power Levels as a function of wind speeds

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NRO 102 - 1/3 rd -Octave Spectra [dB]												
Hub Height Wind Speed [m/s]	4	5	6	7	8	9	10	11	12	13	14	15
Wind speed at 10 m height for a hub height of 110 m [m/s]	2.8	3.4	4.1	4.8	5.5	6.2	6.9	7.6	8.3	8.9	9.6	10.3
Wind speed at 10 m height for a hub height of 131.4 m [m/s]	2.7	3.4	4.0	4.7	5.4	6.1	6.7	7.4	8.1	8.8	9.4	10.1
Frequency [Hz]	12.5	40.1	42.1	46.1	49.1	49.6	49.6	49.6	49.6	49.6	49.6	49.6
	16	45.6	47.6	51.6	54.6	55.1	55.1	55.1	55.1	55.1	55.1	55.1
	20	50.6	52.6	56.6	59.6	60.1	60.1	60.1	60.1	60.1	60.1	60.1
	25	54.8	56.8	60.8	63.8	64.3	64.3	64.3	64.3	64.3	64.3	64.3
	32	58.3	60.3	64.3	67.3	67.8	67.8	67.8	67.8	67.8	67.8	67.8
	40	61.8	63.8	67.8	70.8	71.3	71.3	71.3	71.3	71.3	71.3	71.3
	50	64.9	66.9	70.9	73.9	74.4	74.4	74.4	74.4	74.4	74.4	74.4
	63	67.0	69.0	73.0	76.0	76.5	76.5	76.5	76.5	76.5	76.5	76.5
	80	69.4	71.4	75.4	78.4	78.9	78.9	78.9	78.9	78.9	78.9	78.9
	100	71.3	73.3	77.3	80.3	80.8	80.8	80.8	80.8	80.8	80.8	80.8
	125	73.2	75.2	79.2	82.2	82.7	82.7	82.7	82.7	82.7	82.7	82.7
	160	74.7	76.7	80.7	83.7	84.2	84.2	84.2	84.2	84.2	84.2	84.2
	200	75.9	77.9	81.9	84.9	85.4	85.4	85.4	85.4	85.4	85.4	85.4
	250	77.0	79.0	83.0	86.0	86.5	86.5	86.5	86.5	86.5	86.5	86.5
	315	78.1	80.1	84.1	87.1	87.6	87.6	87.6	87.6	87.6	87.6	87.6
	400	79.2	81.2	85.2	88.2	88.7	88.7	88.7	88.7	88.7	88.7	88.7
	500	80.0	82.0	86.0	89.0	89.5	89.5	89.5	89.5	89.5	89.5	89.5
	630	80.9	82.9	86.9	89.9	90.4	90.4	90.4	90.4	90.4	90.4	90.4
	800	81.9	83.9	87.9	90.9	91.4	91.4	91.4	91.4	91.4	91.4	91.4
1000	82.9	84.9	88.9	91.9	92.4	92.4	92.4	92.4	92.4	92.4	92.4	
1250	83.6	85.6	89.6	92.6	93.1	93.1	93.1	93.1	93.1	93.1	93.1	
1600	83.8	85.8	89.8	92.8	93.3	93.3	93.3	93.3	93.3	93.3	93.3	
2000	83.0	85.0	89.0	92.0	92.5	92.5	92.5	92.5	92.5	92.5	92.5	
2500	80.9	82.9	86.9	89.9	90.4	90.4	90.4	90.4	90.4	90.4	90.4	
3150	77.5	79.5	83.5	86.5	87.0	87.0	87.0	87.0	87.0	87.0	87.0	
4000	73.3	75.3	79.3	82.3	82.8	82.8	82.8	82.8	82.8	82.8	82.8	
5000	68.2	70.2	74.2	77.2	77.7	77.7	77.7	77.7	77.7	77.7	77.7	
6300	63.2	65.2	69.2	72.2	72.7	72.7	72.7	72.7	72.7	72.7	72.7	
8000	58.1	60.1	64.1	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	
10000	53.1	55.1	59.1	62.1	62.6	62.6	62.6	62.6	62.6	62.6	62.6	
Total Sound Power Level [dB]	92.5	94.5	98.5	101.5	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0

Table 14: NRO 102 1/3rd-Octave Band Sound Power Levels as a function of wind speeds

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