# ANNEXURE C – Signed Specialist Declaration

D	ETAILS OF THE SPECIALIST, DECLARATION	I OF INTEREST AND UNDERTAKING UNDER OATH					
Fi	ile Reference Number:	(For official use only)					
	EAS Reference Number: ate Received:	DEA/EIA/					
Ap	pplication for authorisation in terms of the Nation nd the Environmental Impact Assessment (EIA)	nal Environmental Management Act, Act No. 107 of 1998, as amended Regulations, 2014, as amended (the Regulations)					
PI	ROJECT TITLE						
Pr Ca	roposed Construction of a Wind Energy Facility ape Province.	and Associated Infrastructure known as Pofadder WEF 1 in the Norther					
Ki	indly note the following:						
1.	This form must always be used for applic	ations that must be subjected to Basic Assessment or Scoping &					
2.	Environmental Impact Reporting where this D	epartment is the Competent Authority.					
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SAFETECH Contribution level (indicate 1 to 8 or non-compliant) BRETT WILLIAMS PHD REGISTERED OCCUPATION	NON- COMPLIANT	Percentage Procurement	0			
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ENVIRONMENT HEALTH SAFETY

# SITE SENSITIVITY VERIFICATION REPORT

FOR THE POFADDER WIND ENERGY FACILITY 1 NEAR POFADDER, NORTHERN CAPE.



Date of Site Visit: Specialist Name: Professional Registration Number: Specialist Affiliation / Company: Specialist Topic: Proposed WEF Project Name: Version:

08/12/2021 – 10/12/2021 Dr Brett Williams SAIOH 0221 Safetech Noise Impact Assessment Pofadder Wind Energy Facility 1 Version 2

8<sup>th</sup> March 2022



HW592A1000508

Fax: +27 (0)86 6579864 Southern Office: PO Box 27607, Greenacres, Port Elizabeth 6057 Tel: +27 (0)41 3656846 / Fax: +27 (0)41 3652123 info@safetech.co.za / www.safetech.co.za Safetrain cc T/A Safetech Reg. No 1992/034818/23

Northern Office: PO Box 80171, Doornpoort, Pretoria, 0017 Tel: +27 (0)82 411 1571

VAT No. 4180135461 Directors: B Williams, C Williams



Approved Inspection Authority (OH0049-CI-09)

## 1. Introduction

Pofadder Wind Energy Facility 1 (Pty) Ltd proposes to develop a Wind Energy Facility (WEF) near Pofadder in the Northern Cape. Safetech has been appointed to conduct the noise impact assessment. This report only deals with the residual noise conditions of the Pofadder WEF 1 project. The first stage in the assessment is to conduct a site sensitivity report as per the requirements of the Environmental Assessment Protocols of the NEMA EIA Regulations (2014, as amended), and the Protocol for the Specialist Assessment and Minimum Report Content Requirements for Noise Impacts (GG 43110 / GNR 320, 20 March 2020).

The potential noise impacts from the construction and operation of the proposed development will include the following:

- Construction equipment and vehicle noise and
- Mechanical and aerodynamic noise from the operation of the wind turbine components.

The Impacts of mechanical and aerodynamic noise are described in detail below.

### 2. Description of Noise Impacts

The sources of sounds emitted from operating wind turbines can be divided into two categories, firstly mechanical sounds, from the interaction of turbine components, and secondly aerodynamic sounds, produced by the flow of air over the blades.

#### Mechanical Sounds

Mechanical sounds originate from the relative motion of mechanical components and the dynamic response among them. Sources of such sounds include:

- Gearbox
- Generator
- Yaw Drives
- Cooling Fans and
- Auxiliary Equipment (e.g., hydraulics).

Since the emitted sound is associated with the rotation of mechanical and electrical equipment, it tends to be tonal (of a common frequency), although it may have a broadband component. For example, pure tones can be emitted at the rotational frequencies of shafts and generators, and the meshing frequencies of the gears.

In addition, the hub, rotor, and tower may act as loudspeakers, transmitting the mechanical sound and radiating it. The transmission path of the sound can be air-borne or structure-borne. Air-borne means that the sound is directly propagated from the component surface or interior into the air. Structure-borne sound is transmitted along other structural components before it is radiated into the air.

Figure 1 below shows the type of transmission path, and the sound power levels for the individual components for a wind turbine.



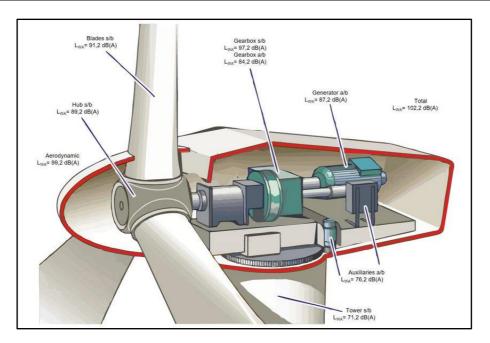


Figure 1: Typical Sound Power Levels of a Turbine (Moraleda 2019).

#### Aerodynamic Sound

Aerodynamic broadband sound is typically the largest component of wind turbine acoustic emissions. It originates from the flow of air around the blades, especially the downward moving blade. A large number of complex flow phenomena occur, each of which might generate some sound (see Figure 2). Aerodynamic sound generally increases with rotor speed. The various aerodynamic sound generation mechanisms that must be considered are divided into three groups:

- Low Frequency Sound: Sound in the low frequency part of the sound spectrum is generated when the rotating blade encounters localized flow deficiencies due to the flow around a tower, wind speed changes, or wakes shed from other blades
- Inflow Turbulence Sound: Depends on the amount of atmospheric turbulence. The atmospheric turbulence results in local force or local pressure fluctuations around the blade and
- Airfoil Self Noise: This group includes the sound generated by the air flow right along the surface of the airfoil. This type of sound is typically of a broadband nature, but tonal components may occur due to blunt trailing edges, or flow over slits and holes.

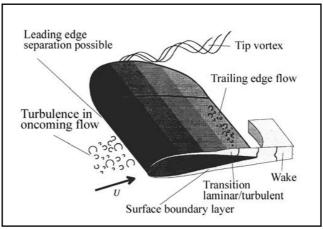


Figure 2: Sources of Aerodynamic Noise (Wagner 1996).



Modern airfoil design takes all the above factors into account and is generally much quieter that the first generation of bade design.

### Residual Sound & Wind Speed

The ability to hear a wind turbine depends on the residual sound level. When the background sounds and wind turbine sounds are of the same magnitude, the wind turbine sound may get lost in the background. Both the wind turbine sound power level and the residual sound pressure level will be functions of wind speed. Thus, whether the sound emitted from a wind turbine exceeds the residual sound level will depend on how each of these varies with wind speed.

The most likely sources of wind-generated sounds are interactions between wind and vegetation. Several factors affect the sound generated by wind flowing over vegetation. For example, the total magnitude of wind-generated sound depends more on the size of the windward surface of the vegetation than the foliage density or volume.

The sound level and frequency content of wind generated sound also depends on the type of vegetation. For example, sounds from deciduous trees tend to be slightly lower and more broadband than that from conifers, which generate more sounds at specific frequencies. The equivalent A-weighted broadband sound pressure generated by wind in foliage has been shown to be approximately proportional to the base 10 logarithm of wind speed.

Sound emitted from large modern wind turbines during constant speed operation tend to increase more slowly with increasing wind speed, than wind generated sound. As a result, wind turbine noise is more commonly a concern at lower wind speeds, and it is often difficult to measure sound from modern wind turbines above wind speeds of 8 m/s because the background wind-generated sound sometimes masks the wind turbine sound above 8 m/s.

It should be remembered that average sound level measurements might not indicate when a sound is detectable by a listener. Just as a dog's barking can be heard through other sounds, sounds with particular frequencies or an identifiable pattern may be heard through background sounds that is otherwise loud enough to mask those sounds. Sound emissions from wind turbines will also vary as the turbulence in the wind through the rotor changes. Turbulence in ground level winds will also affect a listener's ability to hear other sounds. Because fluctuations in ground level wind speeds will not exactly correlate with those at the hub height of the turbine, a listener might find moments when the wind turbine could be heard over the residual sound.

#### Low Frequency Noise and Infrasound

Infrasound was a significant characteristic of some wind turbine models that has been attributed to early designs in which turbine blades were downwind of the main tower. The effect was generated as the blades cut through the turbulence generated around the downwind side of the tower. Modern designs generally have the blades upwind of the tower. Wind conditions around the blades and improved blade design minimize the generation of the effect.

As depicted in Figure 3 below, low frequency pressure vibrations are typically categorized as low frequency sound when they can be heard near the bottom of human perception (10-200 Hz), and infrasound when they are below the common limit of human perception. Sound below 20 Hz is generally considered to be infrasound, even though there may be some human perception in that range. Because the ranges of low frequency sound and infrasound overlap it is important to understand how the terms are applied in a given context.



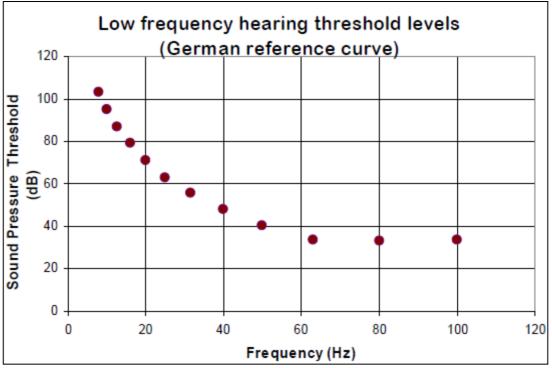


Figure 3: Low Frequency Hearing Threshold Levels

Infrasound is always present in the environment and stems from many sources including residual air turbulence from wind, ventilation units, waves on the seashore, distant explosions, traffic, aircraft, and other machinery. Infrasound propagates farther (i.e., with lower levels of dissipation) than higher frequencies. To place infrasound in perspective, when a child is swinging high on a swing, the pressure changes on their ears, from top to bottom of the swing, is nearly 120 dB(A) at a frequency of around 1 Hz.

Some characteristics of the human perception of infrasound and low frequency sound are:

- Low frequency sound and infrasound (2-100 Hz) are perceived as a mixture of auditory and tactile sensations
- Lower frequencies must be of a higher magnitude (dB) to be perceived, e.g., the threshold of hearing at 10 Hz is around 100 dB (see Figure 3 above)
- Tonality cannot be perceived below around 18 Hz and
- Infrasound may not appear to be coming from a specific location, because of its long wavelengths.

The primary human response to perceived infrasound is annoyance, with resulting secondary effects. Annoyance levels typically depend on other characteristics of the infrasound, including intensity, variations with time, such as impulses, loudest sound, periodicity, etc. Infrasound has three annoyance mechanisms:

- A feeling of static pressure
- Periodic masking effects in medium and higher frequencies; and
- Rattling of doors, windows, etc. from strong low frequency components.



Human effects vary by the intensity of the perceived infrasound, which can be grouped into these approximate ranges:

- 90 dB and below: No evidence of adverse effects'
- 115 dB: Fatigue, apathy, abdominal symptoms, hypertension in some humans
- 120 dB: Approximate threshold of pain at 10 Hz and
- 120 130 dB and above: Exposure for 24 hours causes physiological damage.

The typical range of sound power level for wind turbine generators is in the range of 100 to 105 dB(A) – a much lower sound power level (10 dB or more) than the majority of construction machinery such as bulldozers. For infrasound to be audible even to a person with the most sensitive hearing at a distance of 300 m would require a sound power level of at least 140 dB at 10 Hz and even higher emission levels than this at lower frequencies and at greater distances. There is no information available to indicate that wind turbine generators emit infrasound anywhere near this intensity.

## 3. Possible Mitigation Measures of Potential Noise Impacts

To mitigate the potential noise impacts of the proposed development, the following measures should be considered:

- Construction Phase:
  - Conduct Noise Sensitivity Training for all construction staff where construction takes place close to sensitive receptors.
  - No construction should occur during night-time hours (22:00-06:00).
  - If possible, piling activities should occur during the hottest part of the day to take advantage of the unstable atmospheric conditions.
  - Residual Noise Monitoring should be conducted during the construction phase at sensitive NSAs.
- Operational Phase:
  - Wind Turbine Generators (WTGs) should not be placed within 500m of any occupied NSA.
  - If the night-time noise rating limit for rural areas (35dB(A)) is exceeded, the WTGs could be operated in a lower power mode at certain wind speeds or be relocated further away from an NSA.

The potential noise mitigation measures will be determined upon the final modelling and noise impact assessment.

#### 4. Description of the Affected Environment

Figure 4 below shows the regional context. A total of 64 Noise Sensitive Areas (NSAs) were identified. The distance of each NSA to the Closest WTG is shown in Appendix B. The site verification process determined that most NSAs are not occupied. Furthermore, some NSAs are kraals for livestock and abandoned buildings.



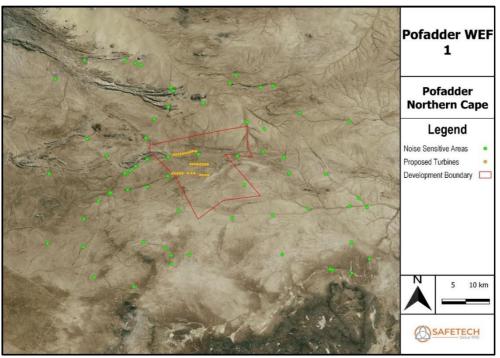


Figure 4: Pofadder Regional Context.

The noise emissions could have an impact on the residents. Figure 5 below shows the NSAs that are most likely to be impacted due to their distance to the closest turbine. During the site visit, it was determined that NSA 38 is a kraal and will be excluded in the full noise impact assessment report. NSA 41 is occupied full time. NSA 43 and NSA 40 had no occupants during the field study. However, the properties were well kept and therefore it is possible that occupants may be present at some stages during the year, even if only for short periods. The land owner should be contacted to determine the status of these two NSAs.

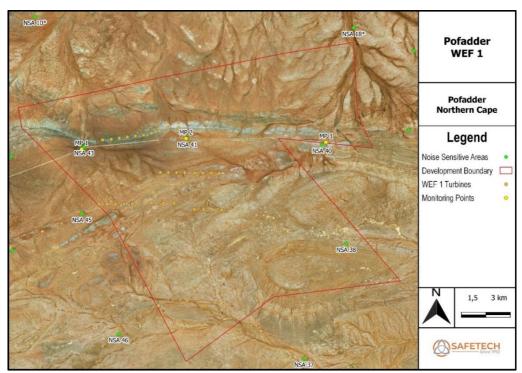


Figure 5: Pofadder WEF 1 Local Context.



Several noise measurements were conducted. The locations of the monitoring points (MP) are shown below. Long-term monitoring was conducted at MP 2 and short-term monitoring was conducted at MP 3.

## 5. Field Study

A field study was conducted from the 8<sup>th</sup> of December 2021 to the 10<sup>th</sup> of December 2021 in accordance with SANS 10103:2008. The guidelines to determine the ambient noise levels of the area are described in the methodology below:

A long-term measurement was taken by placing a noise meter on a tripod and ensuring that it was placed at least 1.2 m from floor level and 3.5 m from any large flat reflecting surface. The 36-hour measurement time encompassed one "day" period (06:00-22:00) and two "night" periods (22:00-06:00). The noise meter was calibrated before and after the survey. At no time was the difference more than one decibel (dB) (Note: If the difference between measurements at the same point under the same conditions is more than 1 dB, then this is an indication that the noise meter is not properly calibrated). The weighting used was on the A scale and the meter was placed on "fast", which is the preferred method as per SANS 10103:2008, the measurement and rating of environmental noise. The meter was fitted with a windscreen, which is supplied by the manufacturer. The windscreen is designed to reduce wind noise around the microphone and not bias the measurements. The short-term monitoring utilized the same method but over a 10-minute period for each measurement taken.

The details of the equipment used are as follows:

- Rion NL-62 and UC-59L Integrating Sound Level Meter with built-in <sup>1</sup>/<sub>3</sub>-Octave Filter and <sup>1</sup>/<sub>2</sub>" Microphone with NC-74 Sound Calibrator: Type 1, Rion NL-62, NH-26, UC-59L Integrating Sound Level Meter with built-in <sup>1</sup>/<sub>3</sub>-Octave Filter and <sup>1</sup>/<sub>2</sub>" Microphone. Serial no.: 00420125; 01697; 00840. Calibrated by: M and N Acoustic Services cc on 06-20 July 2021 (calibration due July 2022 as per SANS 10083:2013). Certificate number: 2021-AS-0751. Calibration certificate attached in Annexure. Total uncertainty of measurements: Integrating Sound Level Meter: Refer to calibration certificate. <sup>1</sup>/<sub>2</sub>" Microphone: ± 0.3 dB. Built-in <sup>1</sup>/<sub>3</sub>-Octave Filter: ± 0.3 dB.
- Rion NC-74, NC-74-002 Sound Calibrator: Serial no.: 34425540. Calibrated by: M and N Acoustic Services cc on 07 July 2021 (calibration due July 2022). Certificate number: 2019-AS-0749. Calibration certificate attached in Annexure. Total uncertainty of measurements: Sound Calibrator: ± 0.19 dB

The calibration certificates can be found in Annexure A.

The results of the baseline residual noise monitoring for the long-term measurement are shown in Figure 6 below. The results of the short-term measurements (10 minutes each) are shown in Table 1 and Table 2. Several measurements for the short-term points were taken at different times of the day and night. The noise sources during the time of the monitoring were typical of the rural Namaqualand landscape. Noise sources included birds chirping, wind noise and leaves rustling. Weather conditions during the daytime hours were sunny.



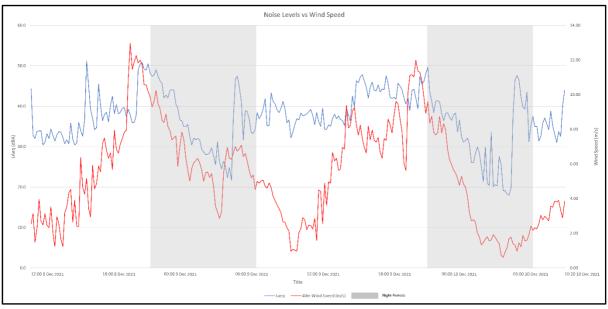


Figure 6: Long Term Ambient Noise Levels vs Weather Conditions at MP 2

The L<sub>Aeq</sub> value at Monitoring Point 2 was as follows:

- Day-time (06:00-22:00): 41.7dB(A)
- Night-time (22:00-06:00): 39.9 dB(A).

The weather data for the monitoring period was supplied by the client from a weather recording mast within the project area. The wind speeds were recorded at a height of 40m and averaged over 10-minute intervals.

The coordinates of the Weather Station are 29°17'37.97"S, 19°45'11.69"E.

	Monitoring Point 1							
Session	Date	Start Time	LA <sub>eq</sub> (dBA)	LA <sub>max</sub> (dBA)	LA <sub>min</sub> (dBA)	L <sub>10</sub> (dBA)	L <sub>90</sub> (dBA)	
Morning 1	08/12/2021	06:33	42.3	75.3	19	35	23.3	
Midday 1	08/12/2021	11:36	36.1	58.8	20.4	35.7	25.6	
Night 1	08/12/2021	21:57	49.3	58.2	35.4	52.6	42.3	
Night 2	09/12/2021	22:15	46.8	57.4	36.2	49.7	41.8	
Morning 2	10/12/2021	10:58	40.2	58.4	23.3	43.6	31.2	

Table 1: MP 1 Short Term Monitoring Results

Table 2: MP 3 Short Term Monitoring Results	;
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	Monitoring Point 3						
Session	Date	Start Time	LA <sub>eq</sub> (dBA)	LA <sub>max</sub> (dBA)	LA <sub>min</sub> (dBA)	L <sub>10</sub> (dBA)	L <sub>90</sub> (dBA)
Morning 1	08/12/2021	7:00	49.3	75.9	20.9	34.6	23.9
Midday 1	08/12/2021	11:14	31.4	55.5	18.8	32.5	20.8
Night 1	08/12/2021	22:18	51.3	61.8	40.6	54.9	44.9
Night 2	09/12/2021	22:44	42.2	57.5	31.5	44.5	36.9
Morning 2	10/12/2021	10:35	34.9	64	17.5	34.5	19.6

## 6. Cumulative Study

The cumulative impacts from Pofadder WEF 2 and Pofadder WEF 3 will be considered during the noise impact assessment phase, as seen in Figure 7 below.

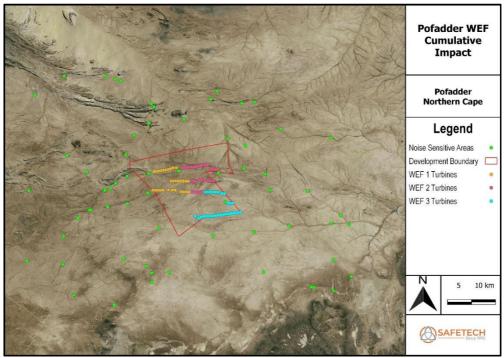


Figure 7: Cumulative Impacts of all three Pofadder WEFs

Additionally, Figure 8 below shows existing and proposed renewable energy projects within a 35km radius of the proposed development. The cumulative impacts will be determined in the final noise impact assessment report.

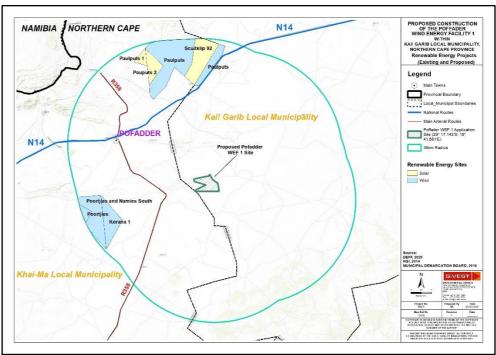


Figure 8: Renewable Energy Projects with 35km of the proposed facility (SiVEST, 2022).



## 7. Legal Requirements

The field study confirmed that the project area is classified as a rural district. Table 3 below shows the SANS 10103:2008 guidelines for day and night noise limits. National noise control regulations classify noise levels exceeding 7dB(A) above the ambient noise levels as a disturbing noise.

	Equivalent Continuous Rating Level, LReq.T for Noise						
Type of District	Outdoors (dB(A))			Indoors, with open windows (dB(A))			
	Day-night	Daytime	Night-time	Day-night	Daytime	Night-time	
Rural Districts	45	45	35	35	35	25	

The current residual noise meets the SANS 10103:2008 daytime levels but exceeds the SANS 10103:2008 night time levels. The following legislation and standards have been identified that are applicable to the noise impact assessment:

- South Africa GNR.154 of January 1992: Noise control regulations in terms of section 25 of the Environment Conservation Act (ECA), 1989 (Act No. 73 of 1989).
- South Africa GNR.155 of 10 January 1992: Application of noise control regulations made under section 25 of the Environment Conservation Act, 1989 (Act No. 73 of 1989).
- South Africa GNR. 320 of 20 March 2020: Procedures for the Assessment and Minimum Criteria for Reporting on identified Environmental Themes under Sections 24(5)(a) and (h) of the National Environmental Management Act, 1998 (Act no. 107 of 1998).
- SANS 10103:2008 Version 6 The measurement and rating of environmental noise with respect to annoyance and to speech communication.
- SANS 10357:2004 Version 2.1 The calculation of sound propagation by the Concawe method.
- International Finance Corporation 2007 General EHS Guidelines: Environmental Noise.

## 8. Conclusion

The following is concluded and verified:

- The project site is situated in a rural district.
- The project could impact on several noise sensitive areas.
- The land owner should be contacted to determine the status of NSA 43 and 41.
- It is recommended that a 500m buffer be placed around all noise sensitive receptors for planning purposes. No wind turbines should be placed within the 500m buffer.

It is recommended that a full noise impact assessment that includes emission modelling be conducted. Several mitigation measures standard to Wind Energy Facilities have been outlined. However, a comprehensive report will be provided that will include the final noise mitigation measures to be included in the environmental management plan.

**Dr Brett Williams** 



#### **ANNEXURE A – Calibration Certificates**

Calibration Laboratory	Our Heg. Mix 2017/17/2009/07 VAT NO-4300255876 BEE Status: Lo P. Ox Box 617113, Plenne sain Bymeveld, 0045 No. 15, Muzheng Avenue Plenre van Rynoved, 0045
CERTIFICATE	Tel: 012 689-2007 (076 990 3070) * Fax: 086 211 4690 E-mail: admin@mnacoustics.co.co Website: www.mnacoustics.co.co OF CALIBRATION
CERTIFICATE NUMBER	2021-AS-0751
ORGANISATION	RUBICEPT (PTY) LTD
ORGANISATION ADRESS	14 ROSE STREET, GQEBERHA
CALIBRATION OF	INTEGRATING SOUND LEVEL METER complete with buil in %- OCTAVE/OCTAVE FILTER, %" PRE-AMPLIFIER an %" MICROPHONE
MANUFACTURERS	RION
MODEL NUMBERS	NL-62, NH-26 and UC-59L
SERIAL NUMBERS	00420125, 01697 and 00840
DATE OF CALIBRATION	06-20 JULY 2021
	JULY 2022
RECOMMENDED DUE DATE	

The measurement results recorded in this certificate were correct at the time of calibration. The subsequent accuracy will depend on factors such as care, handling, frequency of use and the number of different users. It is recommended that re-calibration should be performed at an interval, which will ensure that the instrument remains within the desired limits and/or manufacturer's specifications.

The South African National Accreditation System (SANAS) is member of the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA). This arrangement allows for mutual recognition of technical test and calibration data by member accreditation bodies worldwide. For more information on the arrangement please consult www.ilac.org

Authorized Calibrated by:	Checked by:	Date of Issue:	
M. RAUDE (SANAS TECHNICAL SIGNATORY)	N.J. BLIGNAUT (CALIBRATION TECHNICIAN)	20 JULY 2021	

Director: Marianka Naudé



Colloration Laboratory	Co. Rep. No. 9018/12/02/02/07 VAT NO.4300255876 BEE St P. D. Bok 61773, Paerre veh Rynoveld, 0045
148 1302	No. 15, Musterne Avenue Plerre van Rynewaal, 0045
CERTIFICATE	Tel: 012 689-2007 (076 320 5070) • Fax: 055 211 4690 E-mail: admin@mnacoustics.co.co Website: www.mnacoustics.co.co OF CONFORMANCE
CERTIFICATE NUMBER	2021-AS-0749
ORGANISATION	RUBICEPT (PTY) LTD
ORGANISATION ADDRESS	14 ROSE STREET, GQEBERHA
CALIBRATION OF	SOUND LEVEL CALIBRATOR (complete with ½" Adapter)
MANUFACTURER	RION
MODEL NUMBER	NC-74 and NC-74-002
SERIAL NUMBER	34425540
DATE OF CALIBRATION	07 JULY 2021
RECOMMENDED DUE DATE	JULY 2022
PAGE NUMBER	PAGE 1 OF 3
pproval of SANAS and M and N Acou alibrations performed by this labor aceable to national measuring standa	atory are in terms of standards, the accuracies of which a
ubsequent accuracy will depend on fa f different users. It is recommended ill ensure that the instrument remain: he South African National Accreditat ccreditation Cooperation (ILAC) M llows for mutual recognition of tech	that re-calibration should be performed at an interval, whi s within the desired limits and/or manufacturer's specification tion System (SANAS) is member of the International Laborato Mutual Recognition Arrangement (MRA). This arrangeme nical test and calibration data by member accreditation bodi the arrangement please consult www.ilac.org



NSA Name	Closest WTG
	Distance (m)
NSA 41	841
NSA 45	1 211
NSA 43	1 212
NSA 48	5 698
NSA 47	6 050
NSA 40	6 546
NSA 44	6 870
NSA 38	7 917
NSA 49	7 918
NSA 46	7 940
NSA 10*	8 615
NSA 50	8 884
NSA 52	10 035
NSA 54	10 086
NSA 51	10 131
NSA 9	10 132
NSA 8	10 310
NSA 37	10 406
NSA 21	11 933
NSA 18*	12 140
NSA 6	13 321
NSA 0	13 661
NSA 57	13 930
NSA 30	13 930
NSA 19 NSA 53	14 004
NSA 33	14 125
NSA 7	14 139
	15 836
NSA 64 NSA 36	
	15 947
NSA 12*	16 086
NSA 20	16 170
NSA 58*	16 700
NSA 61	16 937
NSA 23	17 028
NSA 63	17 283
NSA 13	18 173
NSA 1	18 521
NSA 62	19 075
NSA 14*	19 240
NSA 5	20 099
NSA 4	20 877
NSA 60*	21 009



NSA Name	Closest WTG
	Distance (m)
NSA 15	21 400
NSA 27	22 105
NSA 17*	22 187
NSA 11*	22 325
NSA 35	22 838
NSA 70	24 360
NSA 22	24 786
NSA 66	25 249
NSA 59	25 994
NSA 3	27 373
NSA 69	27 383
NSA 2	29 576
NSA 71	30 220
NSA 25	30 480
NSA 16	31 205
NSA 24*	32 071
NSA 34*	32 356
NSA 33*	32 901
NSA 29	33 307
NSA 26	34 132
NSA 31*	36 524
NSA 30	38 237



# ANNEXURE C – Signed Specialist Declaration

D	ETAILS OF THE SPECIALIST, DECLARATION O	OF INTEREST AND UNDERTAKING UNDER OATH			
Fi	le Reference Number:	(For official use only)			
Ν	EAS Reference Number: ate Received:	DEA/EIA/			
Ap ar	oplication for authorisation in terms of the National ad the Environmental Impact Assessment (EIA) Re	I Environmental Management Act, Act No. 107 of 1998, as amended egulations, 2014, as amended (the Regulations)			
P	ROJECT TITLE				
Pr Ca	oposed Construction of a Wind Energy Facility an ape Province.	d Associated Infrastructure known as Pofadder WEF 1 in the Norther			
Ki	ndly note the following:				
1.	This form must always be used for applicat	ions that must be subjected to Basic Assessment or Scoping &			
2.	Environmental Impact Reporting where this Dep This form is current as of 01 September 2018.	It is the responsibility of the Applicant / Environmental Assessment			
	Practitioner (EAP) to ascertain whether subsec	quent versions of the form have been published or produced by the			
	Competent Authority. The latest available Departmental templates are available at https://www.environment.gov.za/documents/forms.				
		ne			
3.	A copy of this form containing original signature	ns. as must be appended to all Draft and Final Reports submitted to the			
	A copy of this form containing original signature department for consideration.	es must be appended to all Draft and Final Reports submitted to the			
	A copy of this form containing original signature department for consideration. All documentation delivered to the physical ad	es must be appended to all Draft and Final Reports submitted to the ddress contained in this form must be delivered during the official			
4.	A copy of this form containing original signature department for consideration. All documentation delivered to the physical ac Departmental Officer Hours which is visible on the	es must be appended to all Draft and Final Reports submitted to the ddress contained in this form must be delivered during the official he Departmental gate.			
4.	A copy of this form containing original signature department for consideration. All documentation delivered to the physical ad Departmental Officer Hours which is visible on the All EIA related documents (includes application	es must be appended to all Draft and Final Reports submitted to the ddress contained in this form must be delivered during the official he Departmental gate.			
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64 WORRAKER STREET, NE PO BOX 27607, GREENACR 6057		Percentage Procurement recognition	0				
to 8 or non-compliant) BRETT WILLIAMS PHD REGISTERED OCCUPATION 64 WORRAKER STREET, NE PO BOX 27607, GREENACRI 6057	COMPLIANT AL HYGIENIST	Procurement recognition	0				
PHD REGISTERED OCCUPATION 64 WORRAKER STREET, NE PO BOX 27607, GREENACR 6057							
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64 WORRAKER STREET, NE PO BOX 27607, GREENACR 6057			PHD				
PO BOX 27607, GREENACRI 6057		REGISTERED OCCUPATIONAL HYGIENIST					
PO BOX 27607, GREENACRI 6057	MTON DADK						
6057	64 WORRAKER STREET, NEWTON PARK, PORT ELIZABETH						
044 3050040	Cell:	0825502					
041-3656846 Brett.williams@safetech.co.za	Fax:	041-365	2123				
THE SPECIALIST							
, decl	are that –						
age in, conflicting interests in the the applicant and the competent we the potential of influencing - a nd - the objectivity of any report ent authority; d by me in this form are true and	e undertaking o authority all ma any decision to t, plan or docum	f the activity; aterial information in be taken with respen- nent to be prepared	ct to the application by myself for				
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	specialist in this application; ating to the application in an object the applicant; we no circumstances that may co- nducting the specialist report rel elines that have relevance to the Regulations and all other applica- tage in, conflicting interests in the the applicant and the competent we the potential of influencing - a and - the objectivity of any report ent authority; d by me in this form are true and	, declare that	, declare that – specialist in this application; ating to the application in an objective manner, even if this results in the applicant; e no circumstances that may compromise my objectivity in perform nducting the specialist report relevant to this application, including the elines that have relevance to the proposed activity; Regulations and all other applicable legislation; rage in, conflicting interests in the undertaking of the activity; the applicant and the competent authority all material information in ve the potential of influencing - any decision to be taken with respe- nd - the objectivity of any report, plan or document to be prepared ent authority; d by me in this form are true and correct; and ration is an offence in terms of regulation 48 and is punishable in terms of regulation 48 and is punishable in terms PRACTISING ATTORN TO WORRAKER STREET, NEW PORT ELIZABETH, 60				

