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**Illaunbaun Wind Farm - Environmental Impact
Assessment Report**

**Appendix A13-06: Calibration Certificates of Noise
Monitoring Equipment**



1 APPENDIX A13-06: CALIBRATION CERTIFICATES OF NOISE MONITORING EQUIPMENT

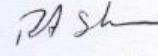
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 <p>MTS Calibration</p>	<p>MTS Calibration Ltd, The Grange Business Centre, Belasis Avenue, Billingham TS23 1LG, England Telephone: 01642 876 410</p>	  <p>0607</p>																														
CERTIFICATE OF CALIBRATION																																
<p>Issued by: MTS Calibration Ltd Performed by: Tony Sherris Date of Issue: 02 March 2023 Certificate Number: 38152U</p>	<p>Page 1 of 1 Approved Signatory:  </p>																															
Sound Calibrator																																
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<p>The Device calibrated was:</p> <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Larson Davis</td> <td style="width: 33%;">Model CAL200</td> <td style="width: 33%;">Serial Number 18140</td> </tr> </table> <p><i>The measurements were performed at Elvington Close, Billingham, TS23 3YS and the measured values were as follows:</i></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>Output Level 1:</td> <td>93.98 dB re 20μPa</td> <td>± 0.15 dB (k= 2)</td> </tr> <tr> <td>Fundamental Frequency 1:</td> <td>1000.07 Hz</td> <td>± 0.11 Hz (k= 2)</td> </tr> <tr> <td>Total Harmonic Distortion 1:</td> <td>0.37 %</td> <td>± 0.01 % (k= 2)</td> </tr> <tr> <td>Output Level 2:</td> <td>114.01 dB re 20μPa</td> <td>± 0.15 dB (k= 2)</td> </tr> <tr> <td>Fundamental Frequency 2:</td> <td>1000.07 Hz</td> <td>± 0.11 Hz (k= 2)</td> </tr> <tr> <td>Total Harmonic Distortion 2:</td> <td>0.51 %</td> <td>± 0.01 % (k= 2)</td> </tr> </table> <p><i>This measurement is valid only for the above device configured for calibration of a WS-2 microphone under the stated environmental conditions. For deviation of prevailing conditions, the manufacturer's literature for the calibrator should be referred to.</i></p>			Larson Davis	Model CAL200	Serial Number 18140	Output Level 1:	93.98 dB re 20μPa	± 0.15 dB (k= 2)	Fundamental Frequency 1:	1000.07 Hz	± 0.11 Hz (k= 2)	Total Harmonic Distortion 1:	0.37 %	± 0.01 % (k= 2)	Output Level 2:	114.01 dB re 20μPa	± 0.15 dB (k= 2)	Fundamental Frequency 2:	1000.07 Hz	± 0.11 Hz (k= 2)	Total Harmonic Distortion 2:	0.51 %	± 0.01 % (k= 2)									
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Date of Measurements: 02 March 2023		Date of Receipt: 23 February 2023																														
<p>Method of calibration</p> <p>A Reference Calibrator was used to establish the sensitivity of the measurement chain. The same measurement chain is then used to determine the output level of the Object Calibrator by the difference between its output and that of the nominated Reference Calibrator. Four independent measurements of the third-octave band sound pressure levels produced by the Reference Calibrators and the Object Calibrator are averaged to minimise uncertainties of the calibration. The measurement chain consists of a calibrated, Reference Microphone, Reference Preamplifier and Reference Analyser.</p> <p>As well as providing a traceable measurement of the sound pressure level in the cavity of the Object Calibrator, the Calibrator's frequency and total harmonic distortion are also measured. Frequency is determined from the average of four independent measurements using a multimeter. The total harmonic distortion is measured from the average of three independent measurements by third octave analysis, subtracting the level of the fundamental frequency from the sum of the combined harmonics in the frequency band to 20kHz. The complete procedure is detailed in the MTS Calibration Ltd. work procedure WP01.</p> <p>The sound pressure level generated by the calibrator in its WS2 configuration was measured by reference to the reference Sound Calibrator as shown in the Test Equipment section below.</p> <p>The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k (individually calculated as above), providing a coverage probability of approximately 95%. The uncertainty evaluation has been calculated in accordance with the current version of UKAS publication M3003. The uncertainty quoted for the Distortion Measurement is the Distortion Percentage as measured, multiplied by our Uncertainty as calculated for the individual measurement or our CMC, whichever is the larger.</p>																																
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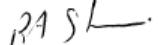
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<p>Sound Level Meter</p> <p>Sound Level Meter Periodic Tests to EN 61672-3: 2013 Class 1</p>																							
<p>Client: Brendan O'Reilly</p>		<p>Instrument Make: Larson Davis</p> <p>Instrument Model: LxT1L</p> <p>Serial Number: 0005660</p>																					
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