



## **APPENDIX 11-3**

***LIDAR INSTALLATION REPORT***



**Zephir Campaign Device Installation Checklist**

**DISTRIBUTION :**

**Client:**

**Slieveacurry Ltd.**

	<b>Name</b>	<b>Job Title</b>	<b>Signature</b>
<b>Site Engineer</b>	James Crowley	Project Engineer	
<b>Prepared by</b>	James Crowley	Project Engineer	
<b>Reviewed by</b>	James Crowley	Project Engineer	
<b>Authorized by</b>	Thomas Scanlon	Project Engineer	
<b>Date of Issue</b>	28/05/2020	<b>Classification:</b>	Confidential

<b>Client</b>	Slieveacurry Ltd.
<b>Site name</b>	Slieveacurry
<b>Project number</b>	0033
<b>Site information</b>	
<b>Deployment start date &amp; time</b>	14/05/2020 @ 10.30
<b>Client contact details</b>	James Crowley (+353) 86 3979248
<b>Landowner contact details</b>	Arranged by client
<b>Site access procedure</b>	Contact WFSO operational control number (+353) 21 7355898 before entering site and again when leaving site.
<b>Site access route</b>	Hardcore Surface to within 100m of the Zephyr unit
<b>Nearest town / Postcode</b>	Inagh, Co. Clare
<b>Observed conditions</b>	
<b>Wind speed</b>	Good wind. Between 5 & 7 m/s
<b>Wind direction</b>	Easterly
<b>Precipitation</b>	Sunny
<b>Visibility</b>	Clear
<b>Deployment information</b>	
<b>Installation Engineer(s)</b>	James Crowley
<b>Model of device(s)</b>	Zephyr 300 (573)
<b>Serial number of device(s)</b>	
<b>Location information</b>	
<b>Irish Grid coordinates</b>	IG E112955, N179167
<b>Elevation</b>	165m
<b>Location description</b>	Unit is located in an agricultural grazing field
<b>Road Type</b>	Hardcore Road Track and grazing field
<b>Distance from Access Road</b>	You can drive within 3m of the Zephyr with a 4x4 vehicle

<b>Vehicle Requirements</b>	Jeep	
<b>Terrain Type</b>	Grazing mountainous land	
<b>Current Land use</b>	Grazing	
<b>Seasonal Land use (e.g. crops)</b>	Grazing animals. Tree cover located around the field boundary.	
<b>Communications</b>		
<b>Router Hardware</b>	Waltz software	
<b>SIM Card Number</b>	No SIM card	
<b>SIM Card IP Address</b>		
<b>Signal strength (-dBm)</b>		
<b>Power supply</b>		
<b>Type</b>	Domestic Supply	
<b>Distance from Zephir (cable length)</b>	100m	
<b>Fuel level</b>		
<b>Photos (including photo numbers)</b>		
<b>360° from North</b>	Figure 1,2,3 & 4	
<b>Ground conditions</b>	Marginal Land.	
<b>Others</b>	See notes below	
<b>Device configuration</b>		
<b>Alignment (offset from north)</b>	Due North	
<b>Scan type</b>	VAD (Basic)	
<b>Max Range</b>	Met Station is positioned on the Zephir. Clear Span around field is approx. 10 – 50m. See images.	
<b>VAD Processing</b>	ON	OFF

<b>Hourly Scanner Home</b>	ON	OFF
<b>Hourly Window Wipe</b>	ON	OFF
<b>Auto Clean</b>	ON	OFF NA
<b>Heat up Before Start</b>	ON	OFF NA
<b>Software version</b>	Zephir Lidar ZP573	
<b>Target description</b>	Slievecallan Wind Farm Turbine Delivery Entrance	
<b>Distance to target</b>	1.5km	
<b>Target coordinates</b>		
<b>Target elevation</b>		
<b>Settings File</b>		
<b>Segments</b>		
<b>Scan file</b>		
<b>Number of beams</b>		
<b>Azimuth</b>	<b>Elevation</b>	
<b>Notes</b>		
<p><b>Zephir measurement heights set to:</b> 11m, 40m, 43m, 60m, 64m, 80m, 100m, 107m, 140m, 175m</p> <p><b>Site Description:</b> From the Zephir - North – Boundary ditch located approx. 25m away. East – Relatively flat. Tree located 15m away on boundary ditch South – Ground falls before climbing again on approach to Slievecallan Wind Farm West – Dense tree cover on landowner boundary approx. 25m away. Note: Zephir is in a cage so therefore a <b>2m offset</b> approx. in reported heights vs. ground level set in software.</p>		

## Photo's



Figure 1 - Zephyr from South looking North



**Figure 2 - Zephyr from North looking South**



**Figure 3 - Zephir from West facing East**



**Figure 4 - Zephir from East facing West**

# ZephIR Configuration



Site Options

Configure the ZephIR measurement heights Above Ground Level

Height 1 (m)	174	175m AGL
Height 2 (m)	139	140m AGL
Height 3 (m)	106	107m AGL
Height 4 (m)	99	100m AGL
Height 5 (m)	79	80m AGL
Height 6 (m)	63	64m AGL
Height 7 (m)	59	60m AGL
Height 8 (m)	42	43m AGL
Height 9 (m)	39	40m AGL
Height 10 (m)	10	11m AGL
Ref Height (m)	38	39m AGL
Window height (m)	1	1m AGL

Bearing  deg

