

**PROPOSED TWO BRITWIND R9000 WIND TURBINES
AT
LONGSYKE FARM ONCE BREWED HALTWHISTLE**

SHADOW FLICKER REPORT

11 December 2017

Shadow flicker is caused from the rotating blades interrupting the sunlight when the turbine is between the sun and a sensitive receptor. This generally occurs more in the morning and evenings or during sunny days in winter when the sun is lower.

The guidance document 'Onshore Wind Energy Planning Conditions Guidance Note', October 2007 for all UK local planning authorities states the following 'Only dwellings within 130 degrees either side of north relative to a turbine can be affected and the shadow can be experienced only within 10 rotor diameters of the wind farm'.

In this case the separation distance between the turbine and the nearest third party property to the south west (Cawburn Shield Farm) is over 400m, well in excess of the recommendations above ($10 \times \text{rotor diameter} = 10 \times 5.5\text{m} = 55\text{m}$). Therefore shadow flicker will not affect any surrounding neighbouring properties.

The nearest public highway is a lane approximately 680m to the south of the proposed turbines. This is a substantial separation distance, again ensure no risk to road users.

Based on these details, it is anticipated that no sensitive receptors would be adversely impacted by potential shadow flicker from the proposed R9000 wind turbines at Longsyke Farm.

Brian Newman