

Appendix 15.2 POTENTIAL SHADOW PERIODS

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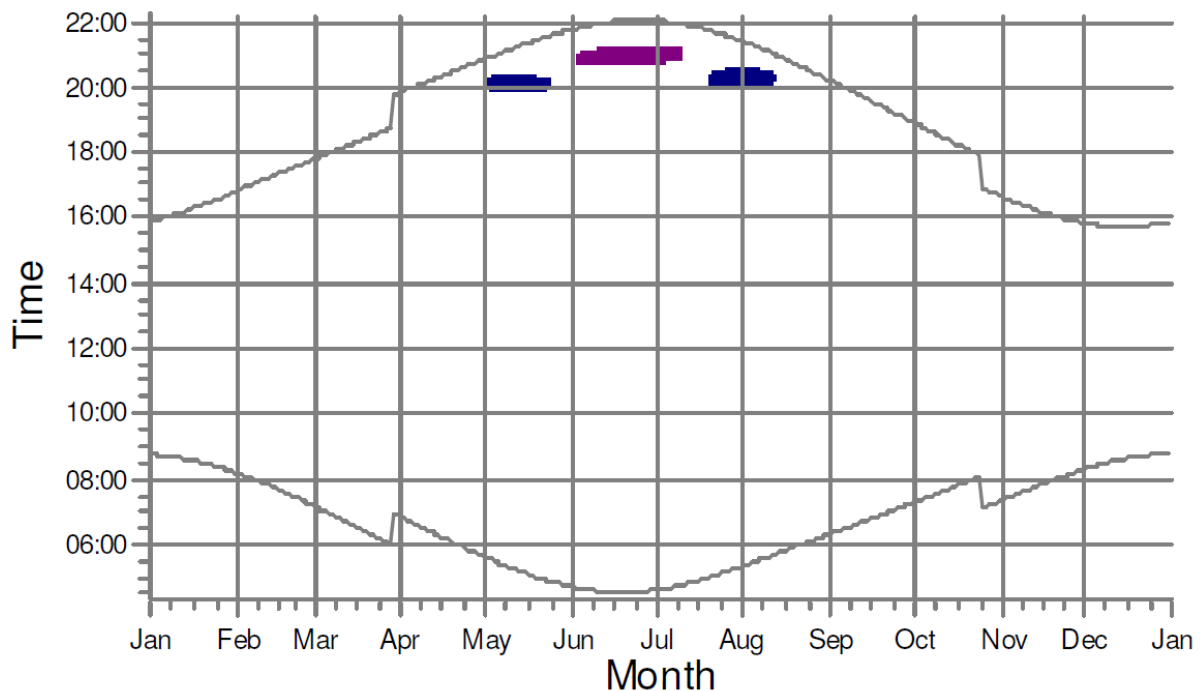
Graphs A15.1 to A15.3 below visually represent the potential periods when each receptor may experience shadow flicker during the operational phase of the Proposed Development. These are calculated using commercial software model WindPro Version 3.2 which takes into account the movement of the sun relative to the time of day and time of year predicting the time and duration of expected shadow flicker at each window of an affected receptor (refer to Chapter 15). These graphs represent a worst case scenario assuming no mitigation as explained in Chapter 15.

Key



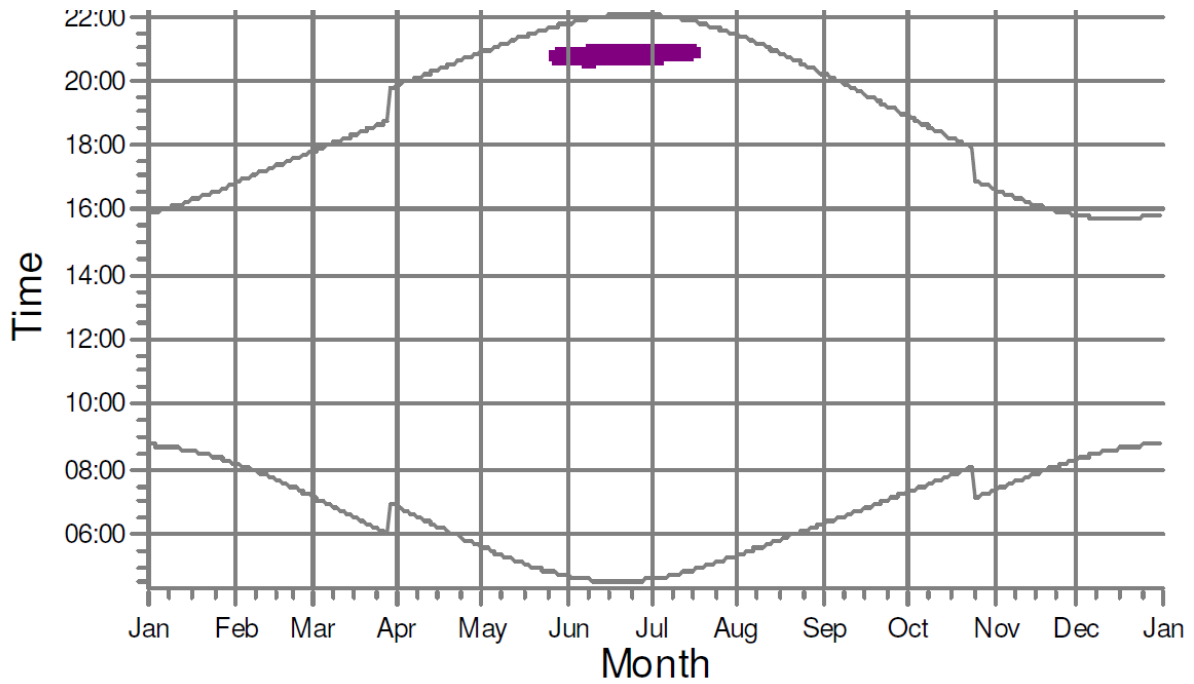
Graphs

Graph A15.1 – Theoretical Shadow Flicker Periods for Receptor 1 (Station House)



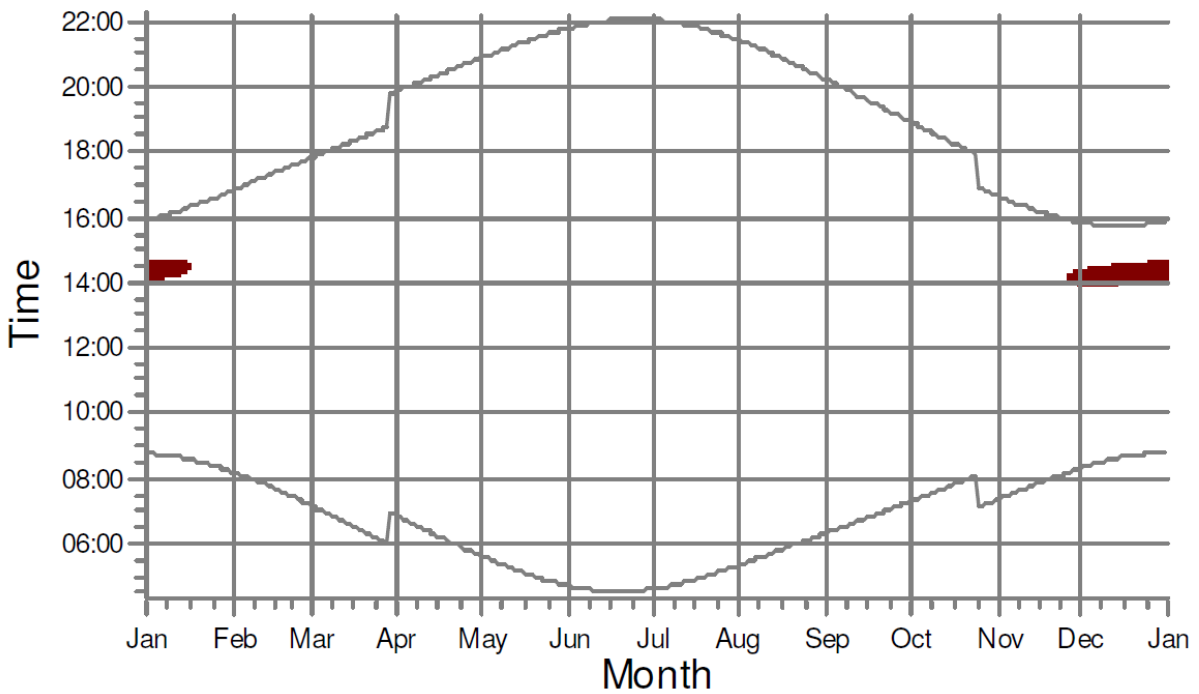
There is potential for turbines 7 and 11 to cause shadow flicker for periods late in the evening from May to mid-August.

Graph A15.2 – Theoretical Shadow Flicker Periods for Receptor 2 (Blackwood Cottage)



There is potential for turbine 11 to cause shadow flicker for periods late in the evening during late May through to mid-July.

Graph A15.3 – Theoretical Shadow Flicker Periods for Receptor 3 (Gunsgreen)



There is potential for turbine 8 to cause shadow flicker for periods during early afternoon from the end of November through to mid-January.