

Attention: Isabelle Deguise
 BER Hand Hills Wind GP Inc
 855 – 2 Street SW, Suite 3500
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Green Cat Renewables
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6 May 2021

Dear: Isabelle Deguise

Further to your email received on April 26th, 2021 we understand that BER Hand Hills Wind GP Inc. (BER) has updated the turbine selection for the Hand Hills Wind Project (the Project) located near Delia, Alberta, Canada.

The Project was originally permitted in Alberta Utilities Commission (AUC) Proceeding 22843, receiving AUC Power Plant Approval 22843-D05-2020¹ on December 17, 2020. Exhibit 22843-X0083², issued January 14th, 2020, provides the shadow flicker assessment for the Project's design at the time of approval.

With the recent updates in the turbine selection, BER is now seeking confirmation from Green Cat Renewables that this design change does not have a material impact on the approved shadow flicker assessment results for the Hand Hills Wind Project. A table of comparison between the AUC permitted design specification and the updated Project design specifications, provided by BER, can be found below:

Turbine Technology	AUC Permitted Specifications (December 2020)	Updated Project (April 2021)
Capacity (MW)	4.5	5.2
Hub height (m)	107.5	102.5
Blade length (m)	72.5	71 metres
Rotor swept height (m)	35 to 180	30 to 175
Rotor swept area (ha) per turbine	1.66	1.66
Total rotor swept area (ha)	48	48

Green Cat Renewables have reviewed the changes in the turbine design specifications and confirm that they will have minimal change in impact on the shadow flicker results presented in Exhibit 22843-X0083. Further to this, any change in results would be a reduction in predicted minutes of potential shadow flicker.

¹ AUC Power Plant Approval - [22843-D05-2020](#)

² Previous Shadow Flicker Assessment - [22843-X0083](#)

BER has also confirmed that 3 'spare' turbine locations were removed in Proceeding 22843, and the locations of the remaining 29 wind turbines remain the same as approved. Removal of the spare turbine locations has the potential to reduce the amount of shadow flicker predicted in Exhibit 22843-X0083.

The Commission's previous finding categorized the duration of shadow flicker as 'relatively minor'³ and the change of turbine selection proposed by BER should not negatively, or materially, change the predicted shadow flicker results which led to this conclusion.

Yours Sincerely,

A handwritten signature in black ink, appearing to read "Cameron Sutherland", is written over a light grey horizontal line.

Cameron Sutherland, Technical Director, Green Cat Renewables

³ Amendment to the Hand Hills Wind Project - [22843-D04-2020](#)