



Transport Canada Transports Canada

Prairie and Northern Region
344 Edmonton Street
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May 8, 2023

Keith Morrison
Manager, Impact Assessment
Nunavut Impact Review Board
Cambridge Bay, NU

Via Email: info@nirb.ca

Transport Canada's Response to Information Request for the Back River Energy Centre Project Proposal (NIRB File No. 12MN036)

Dear Keith Morrison,

In response to the Nunavut Impact Review Board's April 26, 2023 letter, please find attached Transport Canada's response to the Kitikmeot Inuit Association's information request filed as part of the public technical review for the Back River Energy Centre Project Proposal (the Project).

Transport Canada looks forward to continued participation in the Nunavut Impact Review Board's assessment of the Project. If you have any questions or comments about this submission, please contact Scott Kidd (A/ Regional Environmental Supervisor) at scott.kidd@tc.gc.ca or (431) 334-9682.

Sincerely,

Margaret Zellis-Skiba
Acting Regional Manager, Environmental Programs, Prairie and Northern Region
Transport Canada, Prairie and Northern Region / Government of Canada

cc. Kaitlyn Bakker, Northern Projects Management Office, Canadian Northern
Economic Development Agency

NIRB assessment of "Back River Energy Centre Project Proposal"

NIRB File No.: 12MN036

Transport Canada – Response to Information Request

IR No.: KIA-IR-1	Party: Kitikmeot Inuit Association
Subject/Topic: Use of lighting deterrence measures	

Information Request:

Can Sabina and/or Transport Canada please comment on which of these light-related mitigation measures (1-3 above) will be allowed prior to the technical FEIS Addendum review period? If some will only be allowed in certain areas, please include these details.

Measures from FEIS Amendment at p. 2-78 referred to in KIA-IR-1:

1. Directed lighting will be used rather than broad lighting, whenever possible. All lighting will be directed into the facility and toward the ground to limit stray light as a visual disturbance.
2. Red and white lighting on turbine towers will be avoided except where legally required by Transport Canada. Blue or green light will be preferentially used.
3. Lighting on turbine towers will be optimized to include shorter duration flashes, longer gaps between flashes, and additional measures included in Wind Turbines and Birds, Environmental Assessment Guidance Document (Environment Canada & Canadian Wildlife Service 2007).

Transport Canada's response to the information request:

Other than the information provided below, Transport Canada is not able to provide further comments on the lighting of the proposed windfarm until the Proponent submits a completed Aeronautical Assessment Form for the Project to Transport Canada.

Measure #1:

Transport Canada has no comment.

Measure #2:

As set out in Transport Canada's Standard 621 - Obstruction Marking and Lighting - Canadian Aviation Regulations (CARs), aeronautical obstruction lights must be either red or white depending on their usage; blue or green lights are not acceptable. For a windfarm, C864 medium intensity red flashing lights shall be used. For more details, please refer to Standard 621: Chapter 4 Lighting, General, and Chapter 12 Marking and Lighting of Wind turbines and Wind farms (available at: <https://tc.canada.ca/en/corporate-services/acts-regulations/list-regulations/canadian-aviation-regulations-sor-96-433/standards/standard-621-obstruction-marking-lighting-canadian-aviation-regulations-cars>).

Measure #3:

The time between flashes is set out in Transport Canada's Standard 621 - Obstruction Marking and Lighting - Canadian Aviation Regulations (CARs). For a windfarm, C864 medium intensity red flashing lights shall be used. The flash rate can be between 20 to 40 flashes per minute (fpm). For more details, please refer to Standard 621: Chapter 4 Lighting, General, Table 1 (available at: <https://tc.canada.ca/en/corporate-services/acts-regulations/list-regulations/canadian-aviation-regulations-sor-96-433/standards/standard-621-obstruction-marking-lighting-canadian-aviation-regulations-cars>).