

February 25, 2010

Yukon Utilities Board  
Box 31728  
Whitehorse, Y1A 6L3

submitted by email: yub@utilitiesboard.yk.ca

Attention: Yukon Utilities Board

**Re: Yukon Conservation Society Information Request for YEC Mayo B Application**

To Whom It May Concern,

Please accept this document as the Yukon Conservation Society (YCS)'s information request regarding the YEC Mayo B application to the Yukon Utilities Board.

YCS has requests for information covering three topics: Fish and Fish Habitat, Power Capacity and Economics and Alternatives.

The specific Information Requests are as follows:

**Fish and Fish Habitat**

1. Please include all fish and fish habitat studies in Mayo Lake and Mayo River watershed as exhibits (not as footnotes or references to YESAB).
2. Please show how YEC intends to enhance salmon habitat below the Wareham Dam in the section of river between the existing powerhouse and the proposed new powerhouse.
3. Please explain where YEC intends to get the water to increase minimum flows below Wareham Dam.
4. Please show incremental cost benefit analyses incorporating environment and economics for different possible drawdown allowances (from no drawdown, to 6 inches, etc, up to the full one metre).
5. Please show all studies on the drawdowns on Mayo Lake since the dam was built. Please include how often the range has been fully utilized and what effects the current operating range has been found to have on fish habitat and wildlife?

## **Power Capacity and Economics**

6. Please state the existing generating capacity (MW and GWh) of the Mayo Hydro facility.
7. Please state the proposed generating capacity (MW and GWh) of the proposed new turbine power plant (both with and without the additional one metre drawdown).
8. Please state the net increase in generating capacity of the entire Mayo facility if Mayo B is constructed. Please include projections both with and without the additional one metre drawdown.
9. Please state load projections for the proposed Alexco and Carmacks Copper mines as well as the current and projected requirements for the Minto mine.

## **Alternatives to Mayo B**

10. What is the power generating capacity (in MW and GWh) of the existing Mayo Hydro facility system (without Mayo B) with an extra one metre drawdown on Mayo Lake?
11. Was the alternative of simply replacing the existing Mayo Hydro facility turbines with newer more efficient ones investigated? What would be the cost of this and the increased capacity?
12. Please share all demand side management scenarios investigated to meet future load.

Thank you for accepting our information request.

If you have any questions, please contact the undersigned.

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