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October 30, 2019

Fred James, Chief Regulatory Officer
British Columbia Hydro and Power Authority
333 Dunsmuir Street
Vancouver BC V6B 5R3
By email: bchydroregulatorygroup@bchydro.com

Dear Mr. James:

Re: BC Hydro F2020 to F2021 Revenue Requirements Application
BCUC Project No. 1598990
B.C. Sustainable Energy Association Information Request No.4

Pursuant to the regulatory timetable amended by Order G-218-19 [Exhibit A-13], attached please find BCSEA's Information Request No. 4 to BC Hydro. A version in Word format will be provided separately. If you have any questions, please do not hesitate to contact me.

Yours truly,

William J. Andrews



Barrister & Solicitor

Encl.

REQUESTOR NAME: **BC Sustainable Energy Association (BCSEA)**
INFORMATION REQUEST ROUND NO: 4
TO: **BC Hydro and Power Authority**
DATE: **October 30, 2019**
PROJECT NO: **1598990**
APPLICATION NAME: **BC Hydro F2020 to F2021 Revenue Requirements Application**

86.0 Topic: Load Forecast
Reference: Exhibit B-15, June 2019 Load Forecast F2020-F2039

BC Hydro refers to its June 2019 Load Forecast for F2020-F2039 and also refers to a comprehensive load forecast, for example that was completed for the 2013 IRP, and that will be completed in early 2020 for the 2021 IRP.

86.1 What distinguishes a “comprehensive” 20-year load forecast from the June 2019 F2020-F2039 Load Forecast?

87.0 Topic: Load Forecast
Reference: Exhibit B-15, June 2019 Load Forecast F2020-F2039, “4. June 2019 Load Forecast Expects Annual Load Growth of Approximately 1 per cent Over Next 20 Years”

“As shown in Table 2 below, on a billed sales basis, the June 2019 Load Forecast expects load growth of approximately one per cent per year from fiscal 2020 to fiscal 2039.”

“As shown in Figure 1 above, BC Hydro’s load forecast includes projections for the mid, high and low forecast.”

87.1 Please confirm, or otherwise explain, that the figure provided is a compound annual growth rate.

87.2 Please provide the high and low load forecast in terms of an approximate compound annual growth rate from F2020 to F2039.

87.3 With reference to Table 2, please provide a graph and table for the June 2019 Forecast showing annual increases in Total Domestic Sales after DSM and Rate Impacts in GWh and as a percent change from the previous year. Please briefly explain any notable trends.

88.0 Topic: Load Forecast
Reference: Exhibit B-15, June 2019 Load Forecast F2020-F2039

“The Total Integrated (mid) June 2019 System Peak Forecast after Demand-Side Management (DSM) savings expects growth in peak demand of approximately 1.0 per cent per year over the next 20 years.” [pdf p.27]

Figure B-3, Total Integrated System Peak Forecast June 2019 Forecast, shows the forecast uncertainty range.

88.1 Please confirm, or otherwise explain, that the figure provided is a compound annual growth rate.

88.2 Please provide the high and low peak forecast in terms of an approximate compound annual growth rate from F2020 to F2039.

89.0 Topic: Load Forecast

Reference: Exhibit B-15, Appendix D, Load Resource Balance Tables, Table D-3 Planning View of the Energy Load Resource Balance After Planned Resources; Table D-4 Peak Capacity Load Resource Balance After Planned Resources

89.1 Please provide an Energy Load-Resource Balance figure (line and shaded range for demand, vertical bars for supply) and a Capacity Load-Resource Balance figure based on Tables D-3 and D-4 respectively.

89.2 For each of the Energy Load-Resource Balance and the Capacity Load-Resource Balance after Planned Resources and after DSM based on the June 2019 Load Forecast, please provide a table showing the year in which a deficit position arises in the Low, Mid and High Gap scenarios.

90.0 Topic: Cost of Energy, Biomass Energy Program and Retired Railway Ties
Reference: Exhibit B-17, BC Hydro Response to BCSEA 3.82.1; Exhibit B-13, BC Hydro Response to BCSEA 2.59.1; Exhibit B-7, BC Hydro Response to BCSEA 1.13; Exhibit B-1, s.4.3.2, pdf p.237

In BCSEA IR 1.13, BCSEA asked about the current status of renegotiation of long-term EPAs with certain biomass generation facilities, and in particular whether a long-term EPA with Atlantic Power's Williams Lake facility did or would require power to be exclusively from clean or renewable resources (i.e., precluding the use of retired rail ties as fuel).

BC Hydro's response to BCSEA IR 3.82.1 states in part that "As of September 30, 2019, BC Hydro has executed new long-term Electricity Purchase Agreements with Atlantic Power for its NW Energy facility as well as with Tolko Armstrong." However, the response is silent regarding whether the long-term EPA with Atlantic Power requires power exclusively from clean or renewable resources.

90.1 Does BC Hydro's new long-term EPA with Atlantic Power for power from the Williams Lake biomass generation facility require delivery of power exclusively from clean or renewable resources? For greater certainty, does the new long-term EPA with Atlantic Power preclude delivery of power from retired railway ties?

90.2 If the new long-term EPA with Atlantic Power would allow delivery of power from retired railway ties, please provide the details of the current status of BC Hydro's provision of the EPA to the Commission for acceptance under UCA section 71.