

**Fred James**

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March 20, 2020

Mr. Patrick Wruck  
Commission Secretary and Manager  
Regulatory Support  
British Columbia Utilities Commission  
Suite 410, 900 Howe Street  
Vancouver, BC V6Z 2N3

Dear Mr. Wruck:

**RE: Project No. 1598990  
British Columbia Utilities Commission (BCUC or Commission)  
British Columbia Hydro and Power Authority (BC Hydro)  
Fiscal 2020 to Fiscal 2021 Revenue Requirements Application**

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BC Hydro writes to provide its responses to the following undertakings resulting from the Oral Hearing of February 24 to March 4, 2020:

Exhibit B-58	Responses to Undertaking Nos. 44, 54 and 62 (Public Version)
Exhibit B-58-1	Responses to Undertaking Nos. 44 and 54 (Confidential Version)

BC Hydro also writes to provide supplemental responses to the following undertakings resulting from clarification requests from the Association of Major Power Customers (**AMPC**).<sup>1</sup>

Exhibit B-50-1	Supplemental Response to Undertaking No. 37
Exhibit B-51-2	Supplemental Response to Undertaking No. 39
Exhibit B-53-1	Supplemental Response to Undertaking No. 35
Exhibit B-57-2	Supplemental Response to Undertaking No. 58

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<sup>1</sup> As discussed further in Transcript Volume 15, page 2903, line 26 to page 2905, line 5.

March 20, 2020  
Mr. Patrick Wruck  
Commission Secretary and Manager  
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British Columbia Utilities Commission  
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For further information, please contact Chris Sandve at 604-974-4641 or by email at [bchydroregulatorygroup@bchydro.com](mailto:bchydroregulatorygroup@bchydro.com).

Yours sincerely,



(for) Fred James  
Chief Regulatory Officer

cs/rh

Enclosure

**BC Hydro Fiscal 2020 to Fiscal 2021  
Revenue Requirements Application**

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**BC HYDRO SUPPLEMENTAL UNDERTAKING NO. 37**

**HEARING DATE:** February 28, 2020

**REQUESTOR:** AMPC, Mr. M. Keen

**TRANSCRIPT REFERENCE:** Volume 12, Page 2155, line 16 to Page 2156, line 18

**TRANSCRIPT EXCERPT:**

MR. KEEN: Q EMTP. Is it only EMTP aspects of system impact studies that have received third-party assistances or are there also other aspects that have received third-party assistance?

MR. KUMAR: A That's the only one that comes to mind in the last five years, subject to check.

MR. KEEN: Q All right. So please confirm with us if that recollection is inaccurate.

MR. KEEN: Q And it's your view that tariff supplement 6 prevents BC Hydro from relying on third-party resources for –

MR. KUMAR: A I think your question was that can the load customers do the system impact study as opposed to third parties. And my answer was that I'm not aware of a third party doing a system impact study, whether that's as a result of being precluded through the tariff supplement 6 of a business practice, I don't know that.

MR. KEEN: Q I'd understood your response to be in part because you were precluded by tariff supplement 6. I just want to be clear about that, is that a constraint?

MR. KUMAR: A I'm not aware of whether that -- I'll have to check tariff supplement 6 in terms of what the actual language is in terms of a system impact study.

MR. KEEN: Q Okay, if you can come back and clarify for us.

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**ORIGINAL QUESTION:**

Is it an option for a customer to have an external party undertake a facilities study instead of BC Hydro? Further, does Tariff Supplement 6 prevent customers from having an external third-party undertake a system impact study instead of BC Hydro?

**ORIGINAL RESPONSE:**

**Under Tariff Supplement 6, BC Hydro has the responsibility to construct, own, operate, and maintain the System Reinforcements and Basic Transmission**

**BC Hydro Fiscal 2020 to Fiscal 2021  
Revenue Requirements Application**

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Extension (BTE) as well as provide detailed studies for customer interconnection requests. Therefore, in accordance with Tariff Supplement 6, BC Hydro must undertake system impact studies and facilities studies.

**SUPPLEMENTAL RESPONSE:**

In response to a request for clarification from AMPC, BC Hydro wishes to clarify that EMTP is not a service provider. Rather, it is an abbreviation for Electromagnetic Transient Program (EMTP), which is a software for power system electromagnetic transient simulation. EMTP simulation is a component of a System Impact Study.

BC Hydro has on occasion used external service providers to supplement our internal resources when conducting an EMTP analysis. Our primary provider is BC Hydro's subsidiary corporation, Powertech. In October 2019, BC Hydro engaged the Electranix Company as a provider to assist with one complex study.