Douglas Smith
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July 5, 2021

Mr. D Flintoff

Re: British Columbia Hydro and Power Authority – Public Electric Vehicle Fast Charging rate Application – Project No. 1599190 – Strata Plan VR 2673 Information Request No. 1 on Intervener Evidence - Flintoff

Dear Mr. D. Flintoff,

Please find enclosed Strata Plan VR 2673 Information Request No. 1 on Intervener Evidence. All Information Requests are for Mr. D. Flintoff.

Thank you.

Sincerely,

"Douglas Smith"

Douglas Smith, Barrister & Solicitor

REQUESTOR NAME: **Strata Plan VR2673**
INFORMATION REQUEST ON INTERVENER EVIDENCE
TO: **D. FLINTOFF**
DATE: **July 5, 2021**
PROJECT NO: 1599190
APPLICATION NAME: **BC Hydro Public EV Fast Charging Rate Application**

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1. You have submitted a brochure for the ABB Terra 54 multi-standard DC charging station as part of your evidence submission.
    a. Is this the 50kW charging station currently deployed by BC Hydro? If any of the units deployed are the previous model, the Terra 53, is there any material difference in the specifications?
    b. Is this the 100kW charging station that BCH has, and has been used for testing? Is it also the intended model for deployment of additional 100kW charging stations?
    c. The efficiency of these charging stations is stated to be 94% at nominal output power. Does the nominal output power and therefore the efficiency change when temperatures are more extreme, either high or low, and when charging from 0 - 20% and 80 – 100%?

2. In your submission you state:

This being the case then AC metering (Smart Meters) could be used on the primary side of the charger with reasonable accuracy to satisfy the requirement and the other participants. I propose the Commission consider using AC primary metering for billing purposes.

    a. In this model, can the AC metering (Smart Meters) provide the necessary data to the charging station for the charging session to bill the customer based on the metered AC energy?
    b. Can the charging station utilize the necessary information from the AC metering to bill the customer based on the metered AC energy?