

1 **Q. (Reference Application) With respect to proposed charger station infrastructure:**

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- 3 **a) What will be the typical size of the proposed charger stations?**
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- 5 **b) How many customers will be able to charge their EVs at the same time?**
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- 7 **c) What criteria were used to determine the optimum sized charging station?**
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- 9 **d) Is Hydro proposing a similar design for its charging stations?**

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- 11 **A. a) The Direct Current Fast Chargers (“DCFC”) will be sized between 50 kW and**
- 12 **75 kW. The Level 2 chargers will be 7.2 kW minimum.**
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- 14 **b) The charging stations will have 2 chargers that will provide the opportunity for 2**
- 15 **customers to charge their vehicles at the same time. A DCFC will have the capacity**
- 16 **to charge 1 electric vehicle (“EV”) per charging session. The co-located Level 2**
- 17 **charger will have the capacity to charge 1 EV per charging session.**
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- 19 **c) The criteria used to determine the optimum sized charging station were charger cost**
- 20 **and acceptance rate.<sup>1</sup>**

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22 For the DCFC stations, a market scan of available chargers indicated that the least-

23 cost chargers have a capacity in the 50-75 kW range. As the majority of electric

24 vehicles currently on the market have an acceptance rate of at least 50 kW, the

25 proposed DCFC capacity will attain the acceptance rate of these vehicles at the lowest

26 cost.

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28 For Level 2 chargers, a market scan of available chargers indicated that the most

29 common public chargers have a capacity of 7.2 kW. As the majority of electric

30 vehicles currently on the market have an acceptance rate at or below 7.2 kW, the

31 proposed Level 2 capacity will attain the acceptance rate of these vehicles at the

32 lowest cost, while also minimizing charging time.

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- 34 **d) Yes, the design Hydro has proposed for its charging stations will be consistent with**
- 35 **its 14 charging stations currently installed that use a 62.5 kW DCFC and a 7.2 kW**
- 36 **Level 2 charger.**

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<sup>1</sup> Acceptance rate is the maximum power the battery can accept while recharging, measured in kilowatts (kW).