Page 1 of 2

1 Q. What is Hydro's estimate of the annual penetration rate for heat pumps by island 2 interconnected customers? Has any trend in the reliance on heat pumps been incorporated in Hydro's load forecast for the island interconnected system? 3 4 5 Α. Hydro does not have statistics on the annual penetration rate for heat pumps by 6 Island Interconnected customers. Hydro is monitoring the residential consumer 7 market activity for heat pumps through dialogue and information sharing with 8 Newfoundland Power. Both the 2015 Conservation and Demand Management 9 (CDM) Potential Study and the results from a study by Newfoundland Power of 10 customers using heat pumps indicate the potential for reduced electricity 11 consumption by customers for heating purposes associated with the installation of 12 this technology. 13 14 Hydro's load forecast for the Island Interconnected System does not currently 15 incorporate an explicit trend on the reliance on heat pumps; however, Hydro's load 16 forecast methodology implicitly reflects the adoption of heat pumps through 17 changes in customer consumption levels associated with increasing electricity price 18 levels. The recently prepared load forecasts for the Island Interconnected System 19 reflect projected electricity price levels that result in reduced customer 20 consumption levels that generally reflect increased saturation levels of heat pumps 21 in the customer base. 22 23 It is Hydro's opinion that it is early in the adoption stage for heat pump 24 technologies within the Island Interconnected System customer base. The impacts 25 due to increased market saturation levels of heat pumps on the overall Island 26 Interconnected System energy and demand levels requires further analysis and

Page 2 of 2

- 1 study before incorporating any explicit trend on the reliance on heat pumps in the
- 2 load forecast models.