

Undertaking #6 at Page at Page 326, lines 20-22

To advise if during the cold snap last winter Yukon Energy had enough reserve to meet the N-1.

Yukon Energy Response:

No, during the cold snap in January 2020 Yukon Energy did not have sufficient capacity to meet the N-1 criteria. The peak forecasted by Yukon Energy's load forecasting model for the winter of 2019/2020 (which was used to determine the number of diesel rental units required) was lower than the actual peak demand experienced in January 2020.

As a result of the record-breaking peak set on January 14, 2020 (non-industrial peak load of 97.6 MW), Yukon Energy was required to update its non-industrial peak capacity demand forecasting model. The update accounted for the January 2020 peak information regarding the actual peak demand of the Yukon system experienced during a prolonged cold weather event, and the impact of the current level of penetration of electric heating systems.

Yukon Energy's updated forecast demonstrated an increase in the expected non-industrial peak load compared to previous forecasts, based on the actual peak experienced in 2020. Accordingly, the Company increased its number of rented diesel generators from 8 units in the winter of 2019/2020 to 15 units in the winter of 2020/2021 to ensure sufficient reserve to meet the N-1 criteria.