

1 Q. Did Hydro consider if efficiency gains were possible through either design or materials when
2 selecting a replacement runner?

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5 A. As part of the runner design process, Newfoundland and Labrador Hydro will pursue all
6 opportunities to improve efficiency through the selection of materials and runner shape.
7 However, as the generators at the Cat Arm Hydroelectric Generating Station include Pelton
8 wheel turbines, appreciable improvements in efficiency would require a detailed redesign of
9 multiple systems beyond the runners, such as nozzles and other features. Such modifications
10 would require extensive feasibility study and detailed design and could not be practically
11 performed in the timeframe of the proposed runner replacements.