

ED Interrogatory #029

Issue Number: 6.5

Issue: Are the test period expenditures related to extended operations for Pickering appropriate?

Interrogatory

Reference:

Reference: "Pickering extension to 2022/2024 yields a net benefit in the range of \$0.3B-\$0.6B..." Exhibit F2-2-3, Attachment 1, Page 6 of 116

For each year of the Pickering extension to 2022/2024 analysis, please provide the IESO's *best current estimate* of:

- a) Pickering's total installed capacity (MW);
- b) Pickering's available capacity (MW) at the time of Ontario's peak annual demand;
- c) Pickering's generation (MWh);
- d) The avoided generation (MWh), by fuel type, as a result of Pickering's extended operation;
- e) Pickering's rolling average forced loss rate as defined by OPG's *2015 Nuclear Benchmarking Report*;
- f) The available capacity at the time of Ontario's peak annual demand of new gas-fired peaking capacity as a percent of its installed capacity;
- g) Pickering's fuel and operating cost per kWh;
- h) Pickering's incremental capital expenditures to permit its extension to 2022/24;
- i) Natural gas prices at Henry Hub;
- j) The NYMEX natural gas futures prices at Henry Hub;
- k) Ontario's carbon prices;

Witness Panel: Nuclear Operations and Projects

Privileged and confidential. Prepared in contemplation of litigation.

- 1 l) Ontario's incremental peaking requirements (MW) to meet the NPCC resource
2 adequacy criterion if Pickering is not extended to 2022/24;
3
4 m) Ontario's cost, per MW, of meeting the NPCC resource adequacy criterion if Pickering is
5 not extended to 2022/24 by: a) domestic supply resources; b) demand response
6 resources; c) energy efficiency resources; and c) electricity imports from neighbouring
7 jurisdictions.
8

9 Please fully justify all your responses. In particular, please state your methodology and
10 assumptions for calculating Pickering's available capacity (MW) at the time of Ontario's peak
11 annual demand.
12
13

14 **Response**
15

Witness Panel: Nuclear Operations and Projects

Privileged and confidential. Prepared in contemplation of litigation.