Energy Probe Interrogatory #50

Interrogatory

Reference:
Exhibit E2, Tab 1, Schedule 1, page 6

Please explain how the forecast of the duration of post-refurbishment outages for each unit was determined. Please show all calculations.

Response

The duration of post-refurbishment outages for each unit was based upon an assessment of operating experience issues seen from other CANDU plants in the immediate post-refurbishment period and the length of outage duration required to fix major equipment issues (see Ex. L-E2-01-Staff-185).

The durations for post refurbishment outage #1 were generally based on the following logic:

- 7 days required for cool-down, heat sinks and work protection;
- 30 days maintenance window to address potential scope based on repairs for known post refurbishment industry issues such as high leakage to collection;
- 10 days to address discovery issues;
- 8 days for pressurization of Primary Heat Transport system, approach to critical, heat up and low power testing and synchronization

Similarly, the durations for post refurbishment outage #2 were generally based on the following logic:

- 7 days required for cool-down activities as set out above;
- 12 days maintenance window to address issues identified after post refurbishment outage #1;
- 4 days to address discovery issues;
- 8 days for start up activities as set out above

This served as the planning basis for each of the Darlington Units' post-refurbishment outages. The specific split between the first and second post-refurbishment outages may differ as OPG plans for the outages.