Board Staff Interrogatory #185

Interrogatory

Reference:
Exhibit E2 / Tab 1 / Schedule 1 / p. 14

Preamble:

OPG's projected FLR for Darlington NGS units returning to service after refurbishment is 12.0% for the first year, 6.0% for the second year, 2.0% for the third year and returning to the 1.0% target thereafter. OPG stated that this three-year FLR schedule is based on industry operating experience.

Question(s):

a) What was the FLR of Darlington NGS Unit 2 in its first year or year-to-date following refurbishment outage? How many outage days was that FLR equivalent to?

b) Please provide FLR statistics from industry operating experience that support OPG's projected three-year FLR schedule for Darlington NGS units returning from refurbishment outage.

c) How many outage days will OPG's three-year FLR schedule equate to for Units 1,3 and 4 in each applicable year? How does this compare to the outage days associated with OPG's longer-term 1% FLR target for Darlington NGS?

Response

a) Since returning to service in June 2020, Darlington NGS Unit 2 has averaged 9.4% FLR (25.5 equivalent days) up to February 2021.

b) The FLR statistics from industry operating experience ("OPEX") are in the 14%-30% range during the first full year of operation post refurbishments. These also show a 3 year average in the 8%-35% range. Experience from Pickering, Bruce Power and Point Lepreau informed Darlington's three year post-refurbishment unit FLR targets:

Chart 1 – Post-refurbishment OPEX

	Post-Refurb FLR	
FLR Performance (%) Industry	**Yr 1 (Full Yr)**	**3-Yr Avg**
External Plant Unit X	22.63	14.63
External Plant Unit Y	14.43	7.84
External Plant Unit Z	18.05	8.65
Pickering 1	19.09	35.68
Pickering 4	29.68	27.25

The FLR targets post-refurbishment and the duration of the post-refurbishment outages together reflect better than industry OPEX as captured in the chart above.

c) For the units returning to service in the 2022-2026 rate term, the FLR equivalent days based on the referenced three-year FLR schedule is as shown in Chart 2.

Chart 2 - Darlington Unit Post Refurbishment FLR Equivalent Days

	Year				
Unit	**2022**	**2023**	**2024**	**2025**	**2026**
U3	0	0	34.5	20.0	6.9
U1	0	0	0.0	24.4	27.2
U4	0	0	0.0	0.0	9.2

Once the Darlington units return to the targeted FLR of 1% upon returning to stable operations post-refurbishment, each unit is expected to average 3.4 FLR equivalent days per year.