

**Environmental Defence Interrogatory #24**

**Interrogatory**

**Reference:**

Ex. F2-8-1

**Questions:**

- (a) Where will the nuclear waste from new reactors be stored in the long-term?
- (b) How will the nuclear waste be transported to that long-term storage site?
- (c) Please provide a map showing the potential long-term storage sites and the transportation routes between them and the proposed site for potential new nuclear generation.
- (d) Does OPG feel it is safe to transport nuclear waste on Ontario's highways? If yes, please explain why.
- (e) Does OPG feel it is safe to transport nuclear waste on Ontario's highways indefinitely?
- (f) When the NWMO conducted its review of long-term storage sites for nuclear waste, what was the planned date for end of the production of nuclear waste in Ontario? Please provide an answer with reference to: (i) the NWMO's materials; and (ii) OPG's own knowledge of the subject.
- (g) Does having a single site for long-term storage still make sense if nuclear power will be produced indefinitely and will therefore need to be transported to that site indefinitely.
- (h) Does OPG believe that the storage of long-term nuclear waste is irrelevant to the prudence of building new nuclear reactors?
- (i) What is OPG's estimate of the cost to store all of the waste that will be produced by Pickering and Darlington in a final storage location? Please provide both an annual estimate for as far as possible and a cost over the lifetime of the fuel. Please discuss the confidence with which OPG makes this estimate.
- (j) Please provide a table showing when the costs referred to in (i) will be or have been recovered from ratepayers. Please ensure the answer provides a breakdown between the amounts already recovered and the amounts not recovered.
- (k) Is the amount referred to in (i) included in the \$/MWh figures for nuclear power in OPG's benchmarking studies? If in part no, please provide the amount that is excluded (\$).

**Response**

a) – e)

1 OPG declines to produce the requested information on the basis of relevance. OPG  
2 is not seeking recovery of any funding for SMR development in this application, as  
3 set out in Ex. L-F2-08-AMPCO-159. Further, an examination of the nuclear waste  
4 disposal questions posed would not be relevant to any issue in this application.  
5

6 f) For nuclear station end-of-life assumptions underlying OPG's nuclear liability costs  
7 sought in this application, see Ex. F4-1-1, Chart 1.  
8

9 g) - h)  
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11 See part a).  
12

13 i) - j)  
14

15 For the revenue requirement impact of OPG's nuclear liabilities for the IR term, see  
16 Ex. C2-1-1 and, for the period going back to 2005, see Ex. L-C2-01-Staff-086.  
17

18 k) Used fuel disposal & storage variable expenses are excluded from the Total  
19 Generating Cost per MWh benchmarking calculation, for the reasons set out in Ex.  
20 L-F2-01-Environmental Defence-012. These costs can be found at Ex. F2-5-1 for  
21 the IR term.