



Canadian Nuclear
Safety Commission

Commission canadienne
de sûreté nucléaire

P.O. Box 1046, Station B
Ottawa, Ontario
K1P 5S9

C.P. 1046, Succursale B
Ottawa (Ontario)
K1P 5S9

Fax: (613) 995-5086

Télécopieur : (613) 995-5086

Directorate of Nuclear Cycle
and Facilities Regulation

Your file Votre référence

Our file Notre référence

4.01.02

June 22, 2010

Ms. Janice Hudson
Vice-President, Nuclear Waste Management Division
Ontario Power Generation
700 University Avenue, H17-B22
Toronto, Ontario M5G 1X6

Subject: Request pursuant to Subsection 12(2) of the *General Nuclear Safety and Control Regulations*: Operating Experience (OPEX) Issue Relating to Potential Alpha Radiation Exposure to Fuel Handling Workers

Dear Ms. Hudson:

I am writing to communicate a concern with respect to potential alpha exposure of workers at the following OPG facilities: Pickering, Darlington and Western Waste Management Facilities. Based on preliminary information received by the CNSC, it appears that there is the potential for workers conducting fuel handling and maintenance activities, and possibly other workers, to be exposed to alpha radiation. As such, CNSC requires that you provide certain information and take actions to address any potential issues in the above-mentioned facilities.

Therefore, pursuant to my authority as a person authorized by the Commission for the purposes of subsection 12(2) of the *General Nuclear Safety and Control Regulations*, I request that Ontario Power Generation Inc. (OPG) complete, no later than July 30, the following actions:

- perform a risk identification and characterization survey with respect to the presence of alpha hazards in the above-mentioned facilities; and
- perform a gap analyses on current work controls used to mitigate potential alpha exposures and implement any identified program improvements.

I further request that OPG will enhance radiation protection program requirements related to alpha monitoring and control, as deemed necessary. The programmatic requirements must take account of current industry best practices and OPEX. OPG shall provide the results from the above two bullets (risk identification and characterization, and the gap analyses), the proposed program improvements and the program's implementation schedule no later than September 30, 2010.

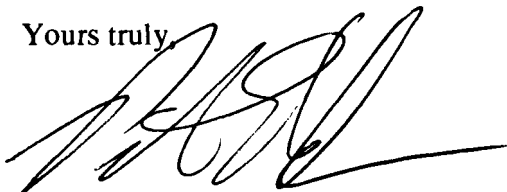
Please note that, in accordance with subsection 12(2) of the *General Nuclear Safety and Control Regulations*, OPG is required to file a report by July 2, 2010, with the Commission that contains the following information:

- a) confirmation that the request will or will not be carried out or will be carried out in part;*
- b) any action that OPG has taken to carry out the request or any part of it;*
- c) any reasons why the request or any part of it will not be carried out;*
- d) any proposed alternative means to achieve the objectives of the request; and*
- e) any proposed alternative period within which OPG proposes to carry out the request.*

If you have any questions related to this matter, please do not hesitate to contact me by telephone at (613) 943-8948 or by e-mail at peter.elder@cnsccsn.gc.ca.

A similar letter has been sent to all CANDU reactor Licensees.

Yours truly,



Peter Elder
Director-General
Directorate of Nuclear Cycle and Facilities Regulation

cc: R. Jammal, (CNSC), T. Jamieson (CNSC), P. Jones (CNSC),
D. Howard (CNSC), L. Thiele (CNSC), P. Thompson (CNSC).