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**CMD 24-H102-Q**

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Date : 2024-07-03

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**Questions from Commission  
Panel Members**

**Questions des membres de  
la formation de la Commission**

In the Matter of

À l'égard d'

**Ontario Power Generation**

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**Ontario Power Generation**

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**Ontario Power Generation – Application  
to change the licensing basis for the  
Pickering Waste Management Facility**

**Ontario Power Generation – Demande  
visant à modifier le fondement  
d'autorisation de l'installation de  
gestion des déchets de Pickering**

Public Hearing – Hearing in writing based  
on written submissions

Audience publique – Audience fondée  
sur des mémoires

**June 2024**

**Juin 2024**



## INTRODUCTION

<b>Questions from Commission</b>	<b>Questions de la Commission</b>
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The Commission, in conducting a Hearing in Writing<sup>1</sup> to consider Ontario Power Generation’s application to amend the licensing basis for the Pickering Waste Management Facility (PWMF) to authorize to process and store, at the PWMF, up to 100 dry storage containers containing 6-year old cooled fuel, has reviewed the written submissions provided by CNSC staff in Commission Member Document (CMD) [CMD 24-H102](#), and OPG in its application and supporting submissions, [CMD 24-H102.1](#), [CMD 24-H102.1A](#). The Commission also reviewed written submissions from 5 intervenors. The Commission requires additional information with respect the questions set out below.

## QUESTIONS

The Commission’s questions for OPG are set out in Table 1 and questions for CNSC staff are set out in Table 2.

**Table 1: CMD 24-H102-Q Questions for OPG**

#	Commission Questions
1.	Provide a brief explanation of mechanism by which placing Dry Storage Containers (DSCs) containing 10-year cooled fuel around the DSCs containing the 6-year cooled fuel provides additional shielding.
2.	Does OPG have a plan to improve the accuracy of their analysis models that predict temperatures in the DSCs, and radiation fields, to create modelling that more accurately reflects field measurements?
3.	Has OPG reviewed the 1998 field measurements following the results of analysis modelling, to re-confirm that the field measurements are an appropriate representation of conditions for 6-year spent fuel in general?
4.	What are the specific backout parameters which would trigger reversing loading of the test DSCs?
5.	What monitoring activities will be implemented to track real world data against modelled expectations?
6.	What is the nature of the test equipment used to validate the test DSCs for temperature and radiation fields?
7.	Should the DSC 6-year dry fuel models prove correct, when is the earliest time that the balance of the 100 DSCs will be loaded - both commencement and intended competition dates?
8.	When are the 2 full unit core unloading activities scheduled to commence in Fuel Bay B?

<sup>1</sup> Notice of Hearing in Writing 2024-H-102, November 21, 2023 and Revised Notice of Hearing in Writing 2024-H-102, March 20, 2024.



9.	Are the long-term monitoring activities of the 6-year fuel DSCs any different than the 10-year fuel DSCs. If so, why?
10.	Is OPG in discussions with Mississaugas of Scugog Island First Nation regarding future consultation or collaborative, given decision-making, for nuclear spent fuel which is held on site?
11.	What are the current communication practices employed by OPG, with regard to concerns raised by Indigenous Nations and communities surrounding spent fuel at PNGS?

**Table 2: CMD 24-H102-Q Questions for CNSC staff**

#	Commission Questions
1.	What are the specific backout parameters which would trigger reversing loading of the test DSCs?
2.	What are the current communication practices employed by CNSC, with regard to concerns raised by Indigenous Nations and communities surrounding spent fuel at PNGS?

**REQUEST**

OPG and CNSC staff shall submit a response by way of supplementary CMD as soon as possible, but no later than **2024-07-17**. OPG and CNSC staff are expected to inform the Registry of any concerns respecting this deadline within five working days of receiving this CMD-Q.

Name:	Candace Salmon, Commission Registrar <i>On behalf of the Commission</i>	Date: 2024-07-03
Signature:	<b>Salmon, Candace</b>	<small>Digitally signed by Salmon, Candace  DN: C=CA, O=GC, OU=CNSC-CCSN, CN="Salmon, Candace"  Reason: I am the author of this document  Location:  Date: 2024.07.03 13:11:48-03'00'  Foxit PDF Editor Version: 13.0.1</small>