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**CMD 23-H103Q**

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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 de

**Bruce Power Inc.  
Bruce Nuclear Generating Stations A and B**

**Bruce Power Inc.  
Centrales nucléaires de Bruce-A et B**

**Application to amend the power reactor  
operating licence for the Bruce Nuclear  
Generating Stations (NGS) A and B**

**Demande visant à modifier son permis  
d'exploitation d'un réacteur de  
puissance pour les centrales nucléaires  
de Bruce-A et B**

Hearing in writing based on written  
submissions

Audience par écrit fondée sur des  
mémoires

**April 2023**

**Avril 2023**



<b>Question(s) from Commission Panel Member(s)</b>	<b>Question(s) des membre(s) de la formation de la Commission</b>
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## INTRODUCTION

The Panel of the Commission, in conducting a [Hearing in Writing](#)<sup>1</sup> to consider an application from Bruce Power Inc. (Bruce Power) for the amendment of its power reactor operating licence for the Bruce Nuclear Generating Stations (NGS) A and B, has reviewed the written submissions provided by CNSC staff in [Commission Member Document](#) (CMD) [CMD 23-H103](#), and Bruce Power in its application, CMD [23-H103.1](#). The Panel of the Commission also reviewed written submissions from 8 intervenors and the submission by the CNSC’s External Advisory Committee on Pressure Tubes, CMD [23-H103.10](#). The Panel of the Commission requires additional information with respect the questions set out below.

## QUESTIONS

The Panel’s questions for CNSC staff are set out in Table 1 and the Panel’s questions for Bruce Power are set out in Table 2.

**Table 1: CMD 23-H103Q Questions for CNSC staff**

#	Commission Panel Questions for CNSC Staff
1.	<p>The Commission requires responses to the following questions raised by the EAC.</p> <p>EAC Question 1: Will there be an expectation somewhere to require that the degree of communication with Indigenous and other local community groups be enhanced until the level of engagement/communication is mutually agreed to?</p>
2.	<p>It is noted that the Finite Element Diffusion analysis referred to in the June 2022 correspondence (Bruce Power Reference #4, BP-CORR-00531-02820) concludes that in inlet rolled joint regions, the high Heq concentrations are on the outside surface of the pressure tube and don’t influence flaws on the inside surface.</p> <p>EAC Question 4: If the Finite Element Diffusion analysis is correct, what will be the effect on the validity of scrape samples on the inside surface of a pressure tube to measure the Heq level in the tube wall?</p>

<sup>1</sup> Revised Notice of Public Hearing 2023 H-103, March 7, 2023



#	Commission Panel Questions for CNSC Staff
3.	Canadian Nuclear Laboratories refers to extensive research and development (R&D) over the years, especially through the Fuel Channel Life Management COG Project. EAC Question 5: Is there a document somewhere that updates the status of all the planned work that was discussed / promised at previous hearings? What percentage of each of the proposed work activities has been completed?
4.	With respect to addressing the SON's concerns: EAC Question 7: How does the CNSC decide whether the information flow to the SON and other stakeholder groups has been adequate?

**Table 2: CMD 23-H103Q Questions for Bruce Power**

#	Commission Panel Questions for Bruce Power
1.	The Commission requires responses to the following questions raised by the EAC. EAC Question 1: Will there be an expectation somewhere to require that the degree of communication with Indigenous and other local community groups be enhanced until the level of engagement/communication is mutually agreed to?
2.	CNSC staff still considers the Region of Interest to be "...the region encompassing the full circumference of a pressure tube..." EAC Question 2: Does Bruce Power accept the full 360-degree extent of the Region of Interest at the inlet and outlet?
3.	The Finite Element Diffusion analysis referred to in the June 2022 correspondence (Bruce Power Reference #4, BP-CORR-00531-02820) concludes that in inlet rolled joint regions, the high Heq concentrations are on the outside surface of the pressure tube and don't influence flaws on the inside surface. EAC Question 3: Has the conclusion of the Finite Element Diffusion analysis been verified on samples from the removed Pressure Tubes?
4.	EAC Question 4: If the Finite Element Diffusion analysis is correct, what will be the effect on the validity of scrape samples on the inside surface of a pressure tube to measure the Heq level in the tube wall?



#	Commission Panel Questions for Bruce Power
5.	Canadian Nuclear Laboratories refers to extensive research and development (R&D) over the years, especially through the Fuel Channel Life Management COG Project. EAC Question 5. Is there a document somewhere that updates the status of all the planned work that was discussed / promised at previous hearings? What percentage of each of the proposed work activities has been completed?
6.	The Saugeen Ojibway Nation raise concerns regarding the argument that a pressure tube failure is in the Design Basis and would therefore not impact the public. EAC Q6: If the risk of a pressure tube failure is fully mitigated by the safety systems in the plant, why did OPG and Bruce Power spend >\$100M on R&D to prevent such failures from happening?
7.	With respect to addressing the SON's concerns: EAC Question 7: How does Bruce Power decide whether the information flow to the SON and other stakeholder groups has been adequate?

**REQUEST**

CNSC staff and Bruce Power shall submit responses by way of supplementary CMD on or before 2023-06-16, if possible. Bruce Power and CNSC staff are expected to inform the Registry of any concerns respecting this deadline within five working days of receiving this CMDQ.

Name:	Denis Saumure, Commission Registrar <i>On behalf of the Panel of the Commission</i>	Date: 2023-06-05
Signature:		