



Supplementary Information

Renseignements supplémentaires

Written submission from Ontario Power Generation

Mémoire d' Ontario Power Generation

In the Matter of

À l'égard de

**Request for authorization to return
Pickering Nuclear Generating Station
Unit 5 to service, following its current
forced outage**

**Demande concernant l'autorisation de la
remise en service de la tranche 5 de la centrale
nucléaire de Pickering à la fin de son arrêt
prévu actuel**

Public Hearing - Hearing in writing based on
written submissions

Audience Publique - Audience fondée sur des
mémoires

October 2021

Octobre 2021

1675 Montgomery Park Road, P41, 3G-4, Pickering,
ON, L1V 2R5

(905) 839-1151 x3643

jon.franke@opg.com

OPG Proprietary

October 1, 2021

CD# NK30-CORR-00531-08332

MR. M. LEBLANC
Commission Secretary

DR. A. VIKTOROV
Director General

Canadian Nuclear Safety Commission
280 Slater Street
Ottawa, Ontario
K1P 5S9

Dear Mr. Leblanc and Dr. Viktorov:

**Pickering NGS: Request for expedited authorization to restart following the
Pickering Unit 5 2021 fall forced outage**

The purpose of this letter is to request an expedited decision regarding the following pursuant to the Order issued to OPG by the CNSC Designated Officer (Reference 1) and confirmed by the Commission as documented in the Summary Record of Decision (Reference 2):

- Authorization to restart Pickering Unit 5 from the current forced outage

On September 30, 2021, Pickering Unit 5 entered into a forced outage due to generator stator cooling issues. While the repair strategy and return to service plan is being determined, the unit's primary heat transport system (HTS) remains hot and pressurized. However, in the coming days, the forced outage strategy may necessitate cooldown and depressurization of the HTS. Therefore, OPG is requesting authorization to restart Unit 5 with all possible expedition.

OPG previously provided information in Reference 3 and 4 demonstrating OPG's high confidence that the concentration of Heq in Pickering Units 5, 6, 7, and 8 will not exceed the licensing limit of 120 ppm. As well, Reference 5 provided additional information identified as required by CNSC staff during the hearing, including qualitative and quantitative analysis to satisfy the conditions of the Order as documented by the Commission in Reference 2.

OPG considers itself to have unconditionally met the requirements of the Order for Pickering Units 5. Based on the information previously submitted, OPG reaffirms that Pickering Units 5 remains fit for service, within the licensing basis, and can safely return to service following the current forced outage.

An expedited review and decision by the Commission regarding restart of Pickering Unit 5 is requested by October 6th, 2021.

If you have any questions or require any clarification regarding this submission, please contact Sara Irvine, Manager Regulatory Affairs at (905) 622-0710 or by email at sara.irvine@opg.com.

Sincerely,



Jon Franke
Senior Vice President
Pickering Nuclear
Ontario Power Generation Inc.

cc: R. Jammal - CNSC (Ottawa)
J. Burta - CNSC (Ottawa)
K. Campbell - CNSC (Ottawa)
C. Chan - CNSC Site Office (Pickering)

References:

1. CNSC Letter, R. Jammal to J. Franke, "Designated Officer Order issued to Ontario Power Generation", July 26, 2021, e-Doc 6612802, CD# P-CORR-00531-22706.
2. CNSC Letter, L. Levert to J. Franke, "Summary Record of Decision on Opportunity to be Heard on the Designated Officer Order and Request to Restart Reactors subject to the Order", September 22, 2021, e-Doc 6646286, CD# P-CORR-00531-22756.
3. OPG Letter, S. Gregoris and J. Franke to M. Leblanc, "Pickering and Darlington: OPG Response to Designated Officer Orders and Opportunity to be Heard on Designated Officer Orders", August 6, 2021, CD# N-CORR-00531-22817.
4. OPG Letter, S. Gregoris and J. Franke to M. Leblanc, "Pickering and Darlington NGS: Submission of Supplemental Information in Response to Designated Officer Orders and to Support Opportunity to be Heard Public Hearing", September 8, 2021, CD# N-CORR-00531-22866.
5. OPG Letter, J. Franke to M. Leblanc and A. Viktorov, "Pickering NGS: Request for Authorization to restart following the Pickering Unit 7 fall outage 2021 and pre-authorization to restart following any Pickering Units 5-8 Forced Outage with Heat Transport System Cooldown", September 29, 2021, CD# NK30-CORR-00531-08328.