

**OPG Proprietary**

December 2, 2020

CD# NK054-CORR-00531-10551

**MR. C. CARRIER**Director  
New Major Facilities Licensing DivisionCanadian Nuclear Safety Commission  
280 Slater Street  
Ottawa, Ontario  
K1P 5S9

Dear Mr. Carrier:

**DNNP - Notice of Intent for Submission of Licence to Construct Application**

- References:
1. OPG Letter, M. Knutson to C. Carrier, "Application for Renewal of OPGs Darlington New Nuclear Project (DNNP) Nuclear Power Reactor Site Preparation Licence (PRSL)", June 29, 2020, CD# NK054-CORR-00531-10533.
  2. OPG Letter, M. Knutson to C. Carrier, "DNNP – Notice of Intent for Early Renewal of Power Reactor Site Preparation Licence PRSL 18.00/2022", April 26, 2019, CD# NK054-CORR-00531-10493.

The purpose of this letter is to notify the CNSC that OPG intends to apply for a licence to construct (LTC) for a grid-scale Small Modular Reactor (SMR) facility (i.e. 300-400 MWe net facility output) at the Darlington New Nuclear Project (DNNP) site.

OPG intends to submit an LTC application to the CNSC by March 31, 2022. OPG's plans in this regard, and timing, are subject to change and require further approvals from the Province of Ontario.

The application will contain the information necessary to demonstrate that OPG has met and will continue to meet the legal requirements of the *Nuclear Safety and Control Act and Regulations for Class I Nuclear Facilities* as they relate to the construction of a reactor facility.

OPG is poised to lead the development and deployment of a grid-scale SMR in Ontario and potentially in other jurisdictions. OPG is resuming planning activities for a new nuclear power reactor at its DNNP site and advancing engineering work with grid-scale SMR

developers to develop a more detailed understanding of the project specific requirements and options. While OPG is now working with three developers, a technology partner has not been selected. OPG continues to be open to potential opportunities, including from other developers, in particular if they offer a strong business case that can meet OPG considerations and requirements for a future project. A decision on a design and a subsequent business case is planned by the end of 2021. Following this project approval, OPG will submit the LTC application.

It should be noted that OPG has submitted an application to renew the existing DNNP site preparation licence (Reference 1) and is seeking a Commission Hearing and decision by Q3 2021 (Reference 2).

OPG will provide CNSC staff with a Licence to Construct Plan document by June 30, 2021, as committed in the Summary Table. The Licence to Construct Plan will outline the scope of OPG's LTC application and will include a schedule associated with key licence submissions to support the above-mentioned application.

Should you have any questions or require additional information, please contact Ms. Sevana Bedrossian, Manager, Regulatory Affairs, Darlington New Nuclear Project Licensing at (416) 716-3879 or by e-mail at [sevana.bedrossian@opg.com](mailto:sevana.bedrossian@opg.com).

Sincerely,



Mark R. Knutson, P. Eng.  
Senior Vice President, Enterprise Engineering  
and Chief Nuclear Engineer  
Ontario Power Generation Inc.

cc: H. Robertson - CNSC (Ottawa)  
L. Andrews - CNSC (Ottawa)  
D. Miller - CNSC (Ottawa)  
J. Burta - CNSC (Ottawa)  
K. Hazelton - CNSC Site Office (Darlington)

**TABLE 1****Summary of Regulatory Management Actions Undertaken in this Submission**

**Submission Title:** "DNNP - Notice of Intent for Submission of Licence to Construct Application"

**Regulatory Management Action (REGM):**

<b>No.</b>	<b>Commitment Description</b>	<b>Target Completion Date</b>
1.	Provide CNSC staff a Licence to Construct Plan document outlining the scope of OPG's licence to construct application and the schedule associated with key licence to construct submissions.	June 30, 2021