

Sent by email (Edward.Leader@Canada.ca)

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Subject: Minor Variance Request
- Pickering Nuclear Generating Station
File: O-5260-001

This is further to our email correspondence expressing our interest in obtaining a minor variance to assist in moving forward with an exciting new development at the foot of Liverpool Road in Pickering.

Please accept this letter as a formal request for a minor variance to the Pickering Nuclear Generating Station Exclusion Zone, to remove lands in South Pickering from the exclusion zone. More detailed information on the specifics of this request, and the private and city-owned lands captured within the existing Exclusion Zone are identified throughout this letter.

It is our understanding through correspondence with the Ontario Power Generation (OPG) that the Pickering Nuclear Generating Station (PNGS) Operating Licence will expire in 2018. We understand that OPG must submit a request to the Canadian Nuclear Safety Commission (CNSC), under subsection 24(2) of the *Nuclear Safety and Control Act* (NSCA), for an amendment to the Nuclear Power Reactor Operating Licence (PROL) for its Pickering Nuclear Generating Station. The current licence, PROL 48-01/2018, expires on August 31, 2018. We have also been informed that there is a formal process for renewal which includes a public consultation process.

We are of the understanding that the Commission, the administrative tribunal of the CNSC, makes decisions on the licensing of major nuclear facilities through a two-part public hearing process. In considering OPG's application, we understand that the Commission will be required to decide pursuant to subsection 24(4) of the NSCA:

Pickering A reactor for a safe dose distance, and is a similar distance seen elsewhere around the world.

Today, the Canadian Nuclear Safety Commission in their safety regulatory document, RD-337, lists the following factors in considering the determination of exclusion zones:

- (a) Land usage needs
- (b) Security requirements
- (c) Evacuation needs
- (d) Environmental factors

Through our review, the most recent and relevant determination of an exclusion zone was completed in 2009 for the Darlington New Nuclear Project in an OPG report (NK054-REP-01210-00003) titled "Exclusion Zone Determination for Darlington New Nuclear Project." Although the report reviews the four factors listed above, it focuses heavily on radioactive dose acceptance criteria, and the appropriate distances to maintain dose requirements to members of the public in relation to site boundaries. The Report concludes that based on the available reactor technology information, distances of 500m or greater meet the requirements and expectations in regulatory documents: RD-337 "Design of New Nuclear Power Plants", RD-346 "Site Evaluation for New Nuclear Power Plants", "Class I Nuclear Facilities Regulations," and "Radiation Protection Regulations," with respect to the site and exclusion zone boundaries.

In considering "land usage needs" within the Pickering Nuclear Generating Station Exclusion Zone, we note that there are important parcels of land in the City of Pickering Waterfront Network that are captured within the Exclusion Zone. Figure 1 shows the current Pickering Nuclear Exclusion Zone in relation to the subject area, extending 914 metres (3,000 ft.) from the exterior of each nuclear reactor. Given the current extent of the exclusion zone and the requirements outlined in the operating licence, residential development could not be approved in the subject area until the operating licence is no longer in effect. **No other Nuclear Generating Stations in Canada have exclusions zones which include land not owned directly by the operator and are available for redevelopment.**

We therefore respectfully request that the Canadian Nuclear Safety Commission consider the information provided in this letter, and consider our formal request for a minor variance to the Pickering Nuclear Generating Station Exclusion Zone. Consideration of this request would allow the City to proceed with the Planning Approval Process for the subject lands to ensure that Pickering's waterfront meets its full potential through intensification in the form of residential and commercial development, coupled with improved public spaces.

Yours truly



Tony Prevedel, P. Eng.
Chief Administrative Officer

TP:jh

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