

Pêches et Océans Canada

Central and Arctic Region Fisheries Protection Program 867 Lakeshore Road Burlington, Ontario L7S 1A1 Région centrale et de l'Arctique Programme de protection des pêches 876 chemin Lakeshore Burlington, Ontario L7S 1A1

March 6, 2017

Your file Votre référence

Our file Notre référence 10-HCAA-CA4-05739

Canadian Environmental Assessment Agency Deep Geologic Repository Project Attn. Panel Manager 160 Elgin Street, 22nd Floor Place Bell Canada Ottawa, ON K1A 0H3

Dear Ms. Virtue,

Subject: Technical Review of Ontario Power Generation's Response to the Request for Additional Information for the Deep Geologic Repository (DGR) for Low and Intermediate-Level Radioactive Waste Project.

The Fisheries Protection Program (the Program) of Fisheries and Oceans Canada received the above-noted request from the Canadian Environmental Assessment Agency on January 18, 2017. As per the letter received, the Program has reviewed the documents submitted by Ontario Power Generation under our mandate in order to provide specialist advice to enable the technical review of the documents. The Program's comments and analysis of the information provided is attached in Annex 1.

If you have any questions related to the information contained in this letter, please contact Sara Eddy at our Burlington office at contact information removed or by email at <u>Sara.Eddy@dfo-mpo.gc.ca</u>. Please refer to the file number referenced above when corresponding with the Program.

Yours sincerely,

<Original signed by>

Jennifer Thomas A/Regional Manager, Regulatory Review



Annex 1: Information requests for the Agency's consideration

Dept #	Project Effects Link to CEAA 2012	Request Element	Reference to OPG's Response	Context and Rationale	Specific Question/ Request for Information
DFO- 01	5(1)(a)(i) Fish and Fish Habitat	Alternate Locations	Environmental Effects of Alternate Locations - Section 4.2.1	It is noted that the sedimentary site would likely not be located on a floodplain.	Siting of infrastructure may impact floodplains of small watercourses and should be considered.
DFO- 02	5(1)(a)(i) Fish and Fish Habitat	Alternate Locations	Study of Alternate Locations Main Submission - Section 4.2.1 Environmental Effects of Alternative Locations - Section 4.3	The report states that in the sedimentary ecozone, most watercourses are cool to cold water.	Note that many of the watercourses in this area are warm water, but may have sensitive species present, including species at risk. The potential for sensitive species should be considered at the alternate locations.
DFO- 03	5(1)(a)(i) Fish and Fish Habitat 5(1)(a)(ii) Aquatic Species 5(2) Linked to Regulatory Permits/Autho rizations	Alternate Locations	Study of Alternate Locations Main Submission - Section 4.3 Environmental Effects of Alternative Locations - Section 4.3	The potential for species at risk to be present at both the sedimentary and crystalline locations is noted in the Main Submission and in Sections 4.3 and 5.3 of the Environmental Effects document. The report states non-critical supporting habitat will be removed for aquatic species.	It is recommended that the proponent consider the potential for aquatic species at risk and critical habitat, as per section 58 of the Species at Risk Act, at the alternate locations. Aquatic species at risk, as per the federal <i>Species at Risk Act</i> , are found throughout the sedimentary alternative location in southern Ontario, as illustrated in Figure 4-2 of the <u>Study of Alternate Locations Main Submission</u> . Aquatic species at risk are found within rivers, streams, creeks and agricultural municipal drains in this area. Aquatic species at risk may also be found in areas of the crystalline alternative location. For further information, please refer to the aquatic species at risk maps on Fisheries and Oceans Canada's website at: <u>http://www.dfo-mpo.gc.ca/pnw-ppe/index-eng.html</u> .

	(Fisheries Act,		- Section		
	Species at Risk		4.3.1		
	Act)		- Section 5.3		
	ACI)		- Section 5.5		
			5.3.1		
DFO-	5(1)(a)(i) Fish	Alternate	Environmental	Installation of infrastructure, such as culverts, may have direct	DFO advises the proponent that changes to water quantity and flow may result in
04	and Fish	Locations	Effects of	impacts on aquatic habitat and aquatic biota, depending on the	impacts to fish and fish habitat, including aquatic species at risk, and should be
04	Habitat	LOCATIONS	Alternate	habitat and species present and design and mitigation measures.	considered prior to siting.
	Παυιται		Locations	Changes to water quantity and flow, including groundwater, may	
	F(1)(a)(ii)		Section		
	5(1)(a)(ii)			impact fish and fish habitat, beyond the aquatic invertebrates	
	Aquatic		Section - Section	identified in the report.	
	Species				
			4.3.1		
			- Section		
DF0			5.3.1	The second states that decomposition is a the DOD has the	The honefite to except the behind of decomposition in the second state of the second s
DFO-	5(1)(a)(i) Fish	Alternate	Environmental	The report states that decommissioning the DGR has the	The benefits to aquatic habitat of decommissioning are not expanded on in the report.
05	and Fish	Locations	Effects of	potential to have a beneficial effect on aquatic habitat.	DFO recommends that the proponent provide more information on the potential
	Habitat		Alternate		benefits.
			Locations		
	5(1)(a)(ii)		Section		
	Aquatic		Section		
	Species		- Section 4.3		
DFO-	5(1)(a)(i) Fish	Alternate	Environmental	The proponent identifies that depending on the sensitivity and	Note that it is the impact on fish and fish habitat and aquatic species at risk that is
06	and Fish	Locations	Effects of	size of nearby aquatic habitat, additional mitigation may be	considered, not the size of the habitat. Should a <i>Fisheries Act</i> authorization be required,
	Habitat		Alternate	required.	offsetting measures will also be needed. A Species at Risk Act permit may also be
			Locations		required.
	5(1)(a)(ii)		Section		
	Aquatic		Section		
	Species		- Section		
			4.3.2		
	5(2) Linked to				
	Regulatory				
	Permits/Autho				
	rizations				
	(Fisheries Act,				
	Species at Risk				
	Act)				
DFO-	5(1)(a)(i) Fish	Alternate	Environmental	The conclusions are that effects on aquatic habitat and aquatic	The alternate locations may impact aquatic species at risk, critical habitat or sensitive

11-1-24-4	Effects of	biota are likely to be similar at all three locations.	species and their habitat, depending on specifics of siting.
Habitat	Alternate		
	Locations		The proponent is advised that aquatic species at risk, as per the federal Species at Risk
5(1)(a)(ii)	- Section		Act, are found throughout the sedimentary alternative location in southern Ontario, as
Aquatic	5.4.5		illustrated in Figure 4-2 of the Study of Alternate Locations Main Submission. Aquatic
Species			species at risk are found within rivers, streams, creeks and agricultural municipal drains in
			this area. Aquatic species at risk may also be found in areas of the crystalline alternative
5(2) Linked to			location. For further information, please refer to the aquatic species at risk maps on
Regulatory			Fisheries and Oceans Canada's website at: <u>http://www.dfo-mpo.gc.ca/pnw-ppe/index-</u>
Permits/Autho			eng.html.
rizations			
(Fisheries Act;			Species at Risk may be added to Schedule 1 of the Species at Risk Act, prior to the
Species at Risk			construction and operation of either alternative site for the DGR, which may necessitate
Act)			additional mitigation measures and design considerations.
			Critical habitat for species at risk is established in Recovery strategies and legally
			protected through Governor-in-Council. Works that may impact critical habitat may not
			be permitted.
			Note that a Cracial at Dick Act Section 72 Descrit may be required for the project to
			Note that a <i>Species at Risk Act</i> Section 73 Permit may be required for the project to
			proceed in an alternate location.
			A Fisheries Act Paragraph 35(2)(b) Authorization may also be required for the project to
			proceed in an alternate location, which would include monitoring, contingency and
			offsetting measures.