

ENVIRONMENTAL ASSESSMENT NEWSLETTER



A MESSAGE FROM LAURIE SWAMI

DIRECTOR OF LICENSING AND ENVIRONMENT DARLINGTON NEW NUCLEAR PROJECT

Ontario Power Generation (OPG) is continuing the work on the federal approvals process for new nuclear units at the existing Darlington Nuclear site.

The federally appointed Joint Review Panel (JRP) has been involved in an exhaustive review of OPG's Environmental Impact

Statement (EIS) and Application for Licence to Prepare the Site. Between December 2009 and November 2010, OPG received and responded to approximately 310 requests for additional information. Each response is posted on our project web site.

One interesting request was to look at additional reactor technologies, such as Atomic Energy of Canada Limited's Enhanced CANDU-6 (EC6). OPG has determined that there are very few areas where the EC6 reactor design differs from the ones used in the environmental assessment studies. For example, the total mass of used fuel from the EC6 is larger and may require an additional used fuel dry storage

building at the Darlington Nuclear site. Overall, OPG found that although some of the parts of the EC6 design differ from other reactor designs, there are no additional residual adverse environmental effects expected, given available mitigation. The EIS conclusions that the New Nuclear at Darlington Project would result in no significant adverse environmental effects remain unchanged.

The JRP closed the public and technical review period on October 8 and issued a notice of public hearing on December 14, 2010. Please see the bottom of this page for more information on the public hearing process, and how you can get involved. As always, OPG will continue to keep you informed about the Project and the federal approvals process. I encourage you to visit our website (www.opg.com/newbuild), use our toll free information line (1-866-487-6006) and visit OPG's community kiosk at the Bowmanville Mall to learn more about the Project.

Laurie Swami
Director, Licensing and Environment
Darlington New Nuclear Project



South West view of the Darlington Nuclear Site

JOINT REVIEW PANEL PUBLIC HEARING

The public hearing will begin on March 21, 2011 at a venue in or near the project area. OPG encourages participation in the hearing process, and notes that those who wish to participate in the hearing must register by January 13, 2011. For more information contact;

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PROTECTION OF FISH HABITAT

OPG has been working with staff from a number of federal and provincial government agencies to ensure that suitable mitigation or compensation would be in place, for any potential loss of fish habitat that might arise from the construction of the New Nuclear at Darlington Project.

Through discussions with Fisheries and Oceans Canada, the Ministry of Natural Resources Lake Ontario Management Unit, the Central Lake Ontario Conservation Authority, the Canadian Nuclear Safety Commission, Environment Canada, and the Canadian Environmental Assessment Agency, a range of mitigation options have been identified, including:

- An expert review of the work done to measure the recession rate of the shoreline bluff, and the movement of sediment in Lake Ontario;
- Design enhancements to the cooling water intake structures;
- Restoration of McLaughlin Bay; and/or
- Long term research on round whitefish and their preferred spawning habitat.



Lake Ontario shoreline at Darlington Nuclear Generating Station

The final mitigation and compensation plan will be determined following the JRP process, once a reactor design has been selected, and in discussion with Fisheries and Oceans Canada as part of their Authorization process.

ARCHAEOLOGY AT THE DARLINGTON NUCLEAR SITE

Some interesting archaeological work was recently undertaken at the Darlington Nuclear site. Archaeological Services Inc. (ASI) undertook an excavation of the Brady site, where there is potential heritage value. The Brady site represents an early home lot established on a 63-acre farm enumerated in the 1852 census.

Preliminary investigations have shown a large assemblage of historical ceramics including whiteware, pearlware, redware, creamware, canary ware and ironstone. Creamware and pearlware

are early ceramics developed in the mid to late 1700s and popular until 1830 when whiteware became the preferred tableware. In addition, a small collection of Aboriginal material culture has been found scattered throughout the site and OPG has brought this to the attention of the First Nation and Métis communities who have had an interest in OPG's New Nuclear at Darlington Project. The site represents a connection to the early pioneer period of Darlington Township and to the pre-contact settlement picture of the Site.



Archaeology Services Inc. performing excavation work on the Brady Site



A collection of historical artifacts found on the Brady Site



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