

OPG's DEEP GEOLOGIC REPOSITORY PROJECT

For Low & Intermediate Level Waste

Keeping You Informed

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OPG Submits Reports on Deep Geologic Repository for Federal Review

DGR Project has support of Bruce County Municipalities

Ontario Power Generation (OPG)'s proposed Deep Geologic Repository (DGR) would safely manage and contain low and intermediate level nuclear waste (L&ILW), according to studies submitted on April 14 to a federal Joint Review Panel.

The Environmental Impact Statement (EIS), Preliminary Safety Report (PSR) and other documentation, which provides about 12,500 pages of material, represents more than four years of significant study, analyses and investigations. The submission reflects

a broad range of consultation from experts as well as input through a robust public engagement process conducted in an open and transparent manner.

"The submission of these studies supports a strong safety case for the long-term management of low and intermediate level nuclear waste," said Albert Sweetnam, OPG Executive Vice President in charge of the project. "The conclusion of the reports – taking into consideration the proposed in-design and mitigation measures – is the DGR project will not likely result in any significant adverse environmental or public health effects, Sweetnam said.

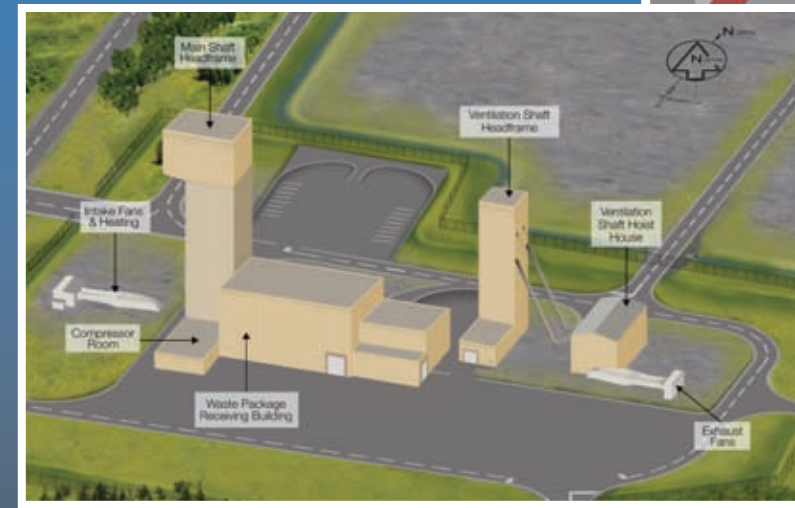
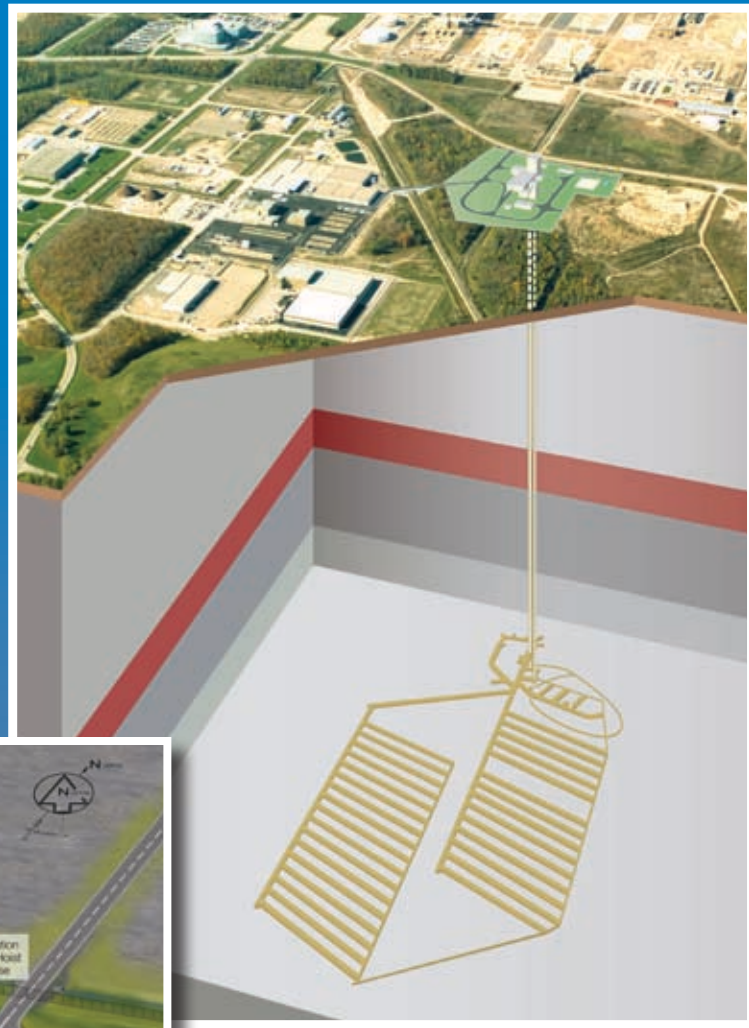
OPG, with the support of Bruce County municipalities, proposes to construct and operate the DGR, 680m (2230 feet) deep underground on OPG-owned

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Environmental Assessment studies conclude DGR will provide safe, long-term management of low and intermediate level waste at Bruce nuclear site

Elements that provide confidence in the DGR's ability to safely isolate and contain L&ILW waste:

- The DGR is isolated from surface and drinking waters;
- Low permeability rock formations under and above the DGR provide multiple natural barriers to safely isolate and contain the waste;
- The 450 million-year-old rock formations have remained stable through tectonic events, climate changes and several ice ages, and are expected to remain stable for at least the next few million years;
- The DGR site is within the tectonically stable interior of the North American continent, which is a region characterized by low rates of seismicity where large magnitude earthquakes are unlikely;
- The radioactivity in the low and intermediate level waste will decay with time; most of the waste volume contains primarily shorter-lived radionuclides; and
- The properties of the host rock and shaft seals will limit the movement of radioactivity to very slow rates.



Surface facilities for the DGR, including the Main Shaft Headframe Building which will facilitate waste handling and the transportation of personnel to the repository level, are shown here.

OPG's proposed DGR for L&ILW will be constructed at about 680 metres beneath the surface at the Bruce nuclear site in low permeability limestone overlain by a 200-metre-thick cap of low permeability shale.

DGR Submission

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lands at the Bruce nuclear site. Located in an area of low seismic activity, the 450 million-year-old stable rock formations will provide multiple natural barriers for the DGR to safely isolate and contain the waste.

The DGR will not accommodate high level waste otherwise known as used fuel. Only low and intermediate level waste from OPG-owned or operated generating stations, in keeping with the hosting agreement between OPG and the Municipality of Kincardine, will be accepted in the DGR.

The submission of these documents, necessary to fulfill the requirements of an environmental assessment (EA) and a site

preparation/construction licence, was made on schedule, and represents a key milestone in the DGR regulatory process. The documents will be reviewed by an appointed Canadian Nuclear Safety Commission/Canadian Environmental Assessment Agency Joint Review Panel. The panel will announce a public review and comment period, expected to be six months in length, as the next step in the regulatory process. This is one of many regulatory steps required prior to construction and operation of the facility.

OPG will continue to dialogue with government, Aboriginal peoples and the public throughout the remainder of the regulatory process for the DGR project. The EIS, PSR and supporting documentation can be accessed through OPG's DGR project website at: www.opg.com/dgr.

Community leaders show their support for DGR Project

Larry Kraemer, Mayor of the Municipality of Kincardine, and Mike Smith, Warden of Bruce County, recently shared their thoughts on the DGR Project, what the submission of the regulatory documents for the long-term management facility means as well as their thoughts on public participation in the regulatory process to date.



Mayor Larry Kraemer

DGR Project "We must conquer today's problems with today's technology. The Municipality of Kincardine is leading by example in one of the most difficult challenges facing modern society – How to safely and permanently dispose of the nuclear waste stored in our community."

Regulatory Filing of documents "After nearly a decade of thorough scientific studies of everything from our geology to our environment, the Environmental Impact Statement has confirmed that the DGR can be built with an incredibly high degree of safety for this generation and the ones that follow. I fully support Ontario Power Generation's licence application to build a DGR for low and intermediate level waste in the Municipality of Kincardine."

Public Participation Right from the inception of the DGR concept, Kincardine has been the subject of one of the most thorough and professional consultation efforts ever undertaken in Canada."



Warden Mike Smith

DGR Project "We have hosted a nuclear facility for over 45 years, from the commissioning of the Douglas Point Generating Station in the early 1960s to refurbishment work currently ongoing; the county has been closely involved and informed about activities on site. Developing a long-term solution to the low and intermediate level waste is the next important

step. We support the project and welcome the opportunity to continue our active participation."

Regulatory Filing of documents "This year the NWMO and OPG achieved an important milestone for Bruce County, the submission of the Environmental Impact Statement moves the DGR to the next phase in the regulatory process, closer to Public Hearings and ultimately closer to the long-term management of our low and intermediate level waste, something I believe is in the best interests of Bruce County residents and our environment."

Public Participation "Bruce County's residents have an excellent understanding of the issues around this project, in fact it would be difficult to find a community better informed. From the beginning of the idea in 2001 to date, Ontario Power Generation and the Nuclear Waste Management Organization have been in our communities seeking public input, providing specific information in a multitude of venues and have developed a very high level of trust with our residents."

HOW TO ACCESS SUBMISSION DOCUMENTS

The Environmental Impact Statement (EIS), Preliminary Safety Report (PSR) and supporting documentation for Ontario Power Generation (OPG)'s proposed Deep Geologic Repository (DGR) for low and intermediate level waste (L&ILW) can be accessed at www.opg.com/dgr. A submission document roadmap provides easy access to over 12,500 pages of material.

Hard copy document sets are available at the Kincardine, Port Elgin, Walkerton, and Bruce County (Saugeen Shores) public libraries. Sets are also available for viewing at the Kincardine Municipal Administration Centre and the County of Bruce Administration Building in Walkerton. (A set of documents includes the EIS, a 60-page EIS Summary, the PSR and supporting documentation). All Bruce County municipal centres have a set of the submission documents on CDs.

Additional hard copies of the EIS, PSR and EIS Summary are at the following public libraries: Chesley, Ripley, Southampton, Teeswater, Tobermory and Walkerton. Hard copies of the EIS Summary are also available at municipal buildings in Arran-Elderslie, Brockton, Huron-Kinloss, North Bruce Peninsula, Saugeen Shores, South Bruce and South Bruce Peninsula. Additional EIS Summaries can be obtained by calling 519-368-1639.

Provisions have been made to supply the Saugeen Ojibway Nation, Historic Saugeen Métis Community and the Métis Nation of Ontario with complete sets of the submission documents in hard copy and CD format.

NWMO Award of Merit recognizes long-time hockey volunteer

Derek Burrows honoured at awards banquet

A long-time Kincardine volunteer with Kincardine Minor Hockey who is also spearheading the Kincardine Davidson Centre Revitalization fundraising initiative is the 2011 recipient of the Nuclear Waste Management Organization Award of Merit. Derek Burrows was presented with the award by NWMO Vice President of Environmental Assessment and Corporate Support Angelo Castellan at the 2011 Community Achievement Awards Dinner hosted by the Kincardine and District Chamber of Commerce on March 26 at the Best Western Governor's Inn. The award is one of eleven community achievement awards presented annually by the Kincardine and District Chamber of Commerce to area businesses, groups or individuals who make an outstanding contribution to the community in the areas of quality of life, volunteerism, environmental stewardship, business, customer service and agriculture.

During the presentation to Derek, it was noted that for the last 22 years on Saturday mornings during the hockey season, with skates and stick in hand, he has headed down to the Kincardine arena where he has overseen the development of hundreds of boys and girls enrolled in the Kincardine Minor Hockey Tyke program. Now for some, skating around a cold arena with 50 or 60 little folks on skates, some tottering and teetering while others are flying by like pros, might not be the most relaxing way to spend a Saturday morning. However, in Derek's words, "I find it very relaxing and if you want to know what life is all about – get on the ice with a bunch of kids."

And the unanimous conclusion from parents and players alike is that Derek creates an environment on the ice which

emphasizes two factors; fun and good, solid skill development. Karen Kieffer, Kincardine Recreation Director, said that Derek treats everyone the same, no matter their skill level, and it's all about giving all of these young players a positive introduction to Canada's most popular game – a game for which Derek obviously has a huge passion.

For the last three years, Derek has also taken on the position of Fundraising Chair for the Davidson Centre Revitalization Program, which includes the addition of a new gym, a running track and more change rooms for the arena.

Derek and his team set themselves a very ambitious goal of \$750,000 and they are currently at the \$455,000 mark with more activities planned for the coming year. Fundraising, especially for large sums of money in a small community, isn't for the faint of heart. Congratulations to the team for their efforts to date, and congratulations to Derek Burrows – the 2011 recipient of the NWMO Award of Merit.



Angelo Castellan (left), NWMO Vice President of Environmental Assessment and Corporate Support, presented Derek Burrows with the NWMO Award of Merit at the Kincardine & District Chamber of Commerce Awards Dinner on March 26, 2011.