According to Holtec, site acceptance tests completed in April 2019 involved 110 individual and 46 integrated tests, including a large number of systems, structures, and components, and were punctuated by the discovery of hidden defects and obsolescent parts. The facility is to be handed over to the state-owned enterprise Chernobyl Nuclear Power Plant to begin commissioning, followed by production loading. ISF-2 will process more than 21,000 spent nuclear fuel assemblies from Chernobyl Units 1, 2, and 3, which will then be placed in double-walled canisters and stored in concrete silos on the site. The spent fuel will be stored for a minimum period of 100 years.

Canada's NWMO drills boreholes near Ignace, Ontario, which is being considered as a host site for a deep geologic repository. (Photo: NWMO)

Canada

Canada's Nuclear Waste Management Organization (NWMO), which is responsible for implementing the country's plan for the long-term management of spent nuclear fuel, announced in November 2019 that it has narrowed its search for a site to host a deep geologic repository to two areas. The township of Ignace in northwestern Ontario and the township of Huron-Kinloss and municipality of South Bruce in southern Ontario will continue to be considered potential host areas for the project. The NWMO is no longer considering the areas around the townships of Hornepayne and Manitouwadge in northern Ontario.

The NWMO began the process for selecting a site for a deep geologic repository for spent fuel in 2010. The process started with 22 Canadian municipalities and indigenous communities that expressed interest in learning more and exploring their potential to host the project. The NWMO has gradually narrowed its focus to fewer areas through technical site evaluations and social engagement to assess safety and the potential to build supportive and resilient partnerships.

In the remaining two areas, the next steps will include working with municipal and indigenous communities to conduct progressively more detailed technical site evaluations and social studies. This work will further assess safety and explore how the project can be implemented in a manner that will enhance the well-being of municipal and indigenous communities in each

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- ASME NQA-1 2008/2009a
- 10 CFR 50 Appendix B
- 10 CFR 830.122
- 10 CFR 71, Subpart H
- ISO 9001:2008
- ASME Div. 1 "U" Stamp
- AWS D1.1, D1.6

Contact: Dan Payne • dan.payne@wagstaff.com • 509-321-3184
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