

CONSTRUCTION AND PROJECT ADMINISTRATION

Hydro One is making this Application under Section 92 of the *Ontario Energy Board Act, 1998*. If the Board were to grant approval under Section 92 by end of October 2007, Hydro One could achieve a December 2011 in-service date for the proposed facilities, subject to timely receipt of other approvals.

To complete the proposed project, Hydro One will install about 180 km of 500 kV transmission line from the Bruce Power Complex and Milton SS as well as additional station equipment:

- A 3 km 500 kV single circuit transmission line from each of Bruce “A” and Bruce “B”, to Bruce Jct. using mostly lattice steel structures, with some aluminum bus structures at Bruce Jct.
- A 173 km 500 kV double circuit transmission line from Bruce Jct. to Milton SS using lattice steel structures. Additional land rights of approximately 53 m to 61 m (175 ft to 200 ft) will be required for almost the entire length of the line as the existing corridor is not wide enough to accommodate the proposed facilities. Between Bruce Jct. and Colbeck Jct. (in East Luther Grand Valley) the new line will be located on the north side of the existing transmission corridor. Between Colbeck Jct. and just north of the Milton SS the new line will be located on the east side of the existing transmission corridor. Near the Milton terminus, the existing lines will be shifted to the west side of the existing corridor on a new set of towers. The new line will then use the existing towers on the east side of the corridor. The resulting switchover will mitigate impacts on a commercial development on the east side of the existing right-of-way that would be in the path of a widened corridor. Line construction activities will include setting up construction yards, building access.

roads on the corridor and off-corridor, clearing trees and brush from the corridor, installing foundations, erecting new structures, and stringing new conductor.

- New station facilities at the existing Bruce Power Complex (Bruce “A” and Bruce “B”) including 500 kV line terminations, three 500 kV breakers, two 500 kV 3-phase line disconnect switches, six 500 kV 3-phase breaker disconnect switches, and associated facilities such as drainage, metering, ground switches, rigid and strain bus, steel structures, foundations and various protection and control equipment, and telecom racks/cabinets. Cabling from the new equipment to the relay building will be installed.

- New station facilities at the existing Milton SS include 500 kV line terminations, two 500 kV GIS 3-phase line disconnect switches, four 500 kV 3-phase breaker disconnect switches, metering, various protection and control equipment, telecom racks/cabinets, and cabling from the new equipment to the existing relay building.

- New access roads, grading, drainage, spill containment (where necessary), fencing, and site restoration at the station sites.

A project schedule is provided as Exhibit B, Tab 5, Schedule 2. The Schedule shows the tasks leading up to the in-service date. To achieve an in-service date of December 2011, construction mobilization is anticipated to begin after receiving EA approval.

Some aspects of the proposed work require some components of the power system and telecommunication equipment to be placed out of service during portions of the construction period. To maintain the existing supply to the area, it is necessary to plan certain work at specific times when outages can be obtained. These outage constraints have been considered in the schedule.