

## Minutes of Meeting

March 1, 2007 – Wolfe Island Wind Turbine Generation Connection

Location – Kingston-Gardiner TS, 588 Gardiners Road, Kingston  
& Operation Centre, 1037 Sydenham Road, Kingston

### ATTENDEES:

- Jim Pinter Canadian Hydro
- Rob Miller Canadian Hydro
- Chris Christophi Hydro One Inc.
- Chris Vanderreest Hydro One Inc.
- Horia Negrea Hydro One Inc.
- Shailesh Javali Hydro One Inc.
- Michael Dang Hydro One Inc.

Objective: Tapping 230 kV Circuits X2H and X4H from Kingston-Gardiner TS to Wolfe Island

## Minutes of Meeting

Salient points in the meeting discussions may be summarized as follow:

### 1. Introduction

- Canadian Hydro is to construct a new 7.6 km, 230 kV submarine cable from Wolfe Island to Sand Bay, Kingston, and a new 4.5 km, 230 kV underground cable from Sand Bay to Kingston-Gardiner TS for the 230 kV X2H/X4H double-line tap connections
- The line-tap connections were originally planned to be located outside Kingston-Gardiner TS where X2H and X4H circuits enter the station from Westbrook Junction at tower #44. Canadian Hydro is to terminate the underground cables on dedicated line disconnect switches and circuit breakers
- The Province of Ontario owns this transmission corridor (Ministry of Public Infrastructure Renewal with Ontario Realty Corp as their land agent). The protocol and procedure to secure land right by Canadian Hydro might go beyond the schedule that we had established for this project. In addition, the business terms expected by the ORC such as terms of agreement (typically 5 years) may not be satisfactory to Canadian Hydro over the life of this project. It is on these bases that the meeting was called to resolve this problem and move the project forward.

### 2. Proposed Solution

- The X2H and X4H line-tap connections will be relocated to be inside Kingston-Gardiner TS switchyard to overcome the land right issues
- Canadian Hydro will terminate the underground cables inside Kingston-Gardiner TS switchyard at a support structure equipped with potheads and surge arresters

- Hydro One will provide tapping structures stringing all three phases of X2H and X4H circuits from the dead-end structures and terminating them on the jaws of the line disconnect switches
- Hydro One will install two (2) motorized 250 kV line disconnect switches and two (2) 230 kV circuit breakers at Kingston-Gardner TS.
- The X2H connection will be normally-close (n/c) and the X4H connection will be normally-open (n/o). Switching operations will be break-before-make and they will be mechanically interlocked to preclude any possibility of paralleling X2H and X4H circuits.

### 3. Cost and Schedule

- Canadian Hydro has accepted the proposed solution to relocate the X2H and X4H line-tap connections to be inside Kingston-Gardner TS switchyard.
- Canadian Hydro has also agreed to pay for all work associated with the line-tap connections including line-disconnect switches, circuit breakers and CT's at Kingston-Gardner TS for the Wolfe Island project
- Hydro One has agreed to the following:
  - Issue the CIA Report to Canadian Hydro by end of March 2007 incorporating cable data changes
  - Issue specifications on Wolfe Island generation connection project to Canadian Hydro by end of March 2007 for review and comment
  - Deliver the cost estimates for Wolfe Island generation connection project to Canadian Hydro by mid-to-end of June 2007
  - Proceed to construction phase in July 2007 when the CCRA is signed between Canadian Hydro and Hydro One
- Canadian Hydro has agreed to an early initial payment for ordering long-delivery equipment to ensure that the X2H and X4H line tap connections including line disconnect switches and circuit breakers will be in place when the underground cables arrive at Kingston-Gardner switchyard.

### 4. Miscellany

- Canadian Hydro will investigate and advise Hydro One if revenue metering will be located at Wolfe Island or at Kingston-Gardner TS. If it is to be located at Kingston-Gardner TS, provision will be made to allow accessibility to the meters by Canadian Hydro personnel.

### 5. Conclusion

Hydro One proceeds to locate the X2H and X4H line-tap connections inside Kingston-Gardner TS. The cost of this connection work including equipments will be borne by Canadian Hydro.

Prepared by M. Dang

March 2, 2007