

1 existing R21T/R19T Pleasant tap. Four in-line circuit breakers will be installed at a
2 new switching station (SS) to be called Hurontario SS. These facilities are located on
3 land designated for utility use; entirely on the Parkway Belt. The facilities do not
4 require the acquisition of any additional land or land rights. A map showing the
5 general location of the proposed transmission facilities is attached to this exhibit.
6

7 4. The proposed facilities are endorsed by the Region of Peel, the City of Brampton, the
8 Local Distribution Companies (LDCs) serving Brampton and Mississauga, the
9 Ontario Power Authority (OPA) and the Independent Electricity System Operator
10 (IESO) as shown in Exhibit B, Tab 6, Schedule 2. The proposed facilities are
11 consistent with the OPA's longer term plan for the area, in that they will also provide
12 additional capability for future east-west transmission line expansions to increase
13 transfer capability into the Toronto area, from the west, and to accommodate further
14 load growth in GTA West beyond the next ten year horizon.
15

16 5. The IESO initially identified the needs related to this project in its March 31, 2003
17 10-Year Outlook. The IESO reinforced the need for transmission enhancements in
18 GTA West in its June 2006 Ontario Reliability Outlook found in this application at
19 Exhibit B, Tab 6, Schedule 6. The IESO's System Impact Assessment (SIA) and
20 letter of approval filed as Exhibit B, Tab 6, Schedule 3 confirms the need for this
21 project and approves the proposed connection under Chapter 4, section 6 of the
22 Market Rules. The report states that this project meets the objective of the SIA; that
23 Hydro One's proposed transmission solution is adequate and does not adversely
24 impact the IESO-controlled grid.
25

26 6. A joint utility planning study that included five LDCs that have customers within the
27 West GTA plus Hydro One Networks – Transmission was completed in early 2006.
28 This study filed at Exhibit B, Tab 6, Schedule 5 confirms the need to reinforce the

1 transmission system in the GTA West and identifies the need to upgrade several
2 transformer stations in order to satisfy the high load growth in the area. It also
3 addresses those concerns that would normally be addressed through a Customer
4 Impact Assessment (CIA) and determined that there are no adverse impacts to
5 customers in the vicinity of the project.

6
7 7. The project economics as filed in Exhibit B, Tab 4, Schedule 3 indicates that the
8 project will have a net present value based on the incremental cash flows that is close
9 to zero (negative \$1.4M), which will result in a very minor increase in the Network
10 pool rate over the first few years of the project's in-service life starting in May 2009,
11 relative to the current rate level.

12
13 8. Following the recommendations of the Solandt Commission in the early 1970's, the
14 Parkway Belt was established as a multi-use corridor, with part of it being designated
15 for utility use servicing what is now the GTA. The proposed facilities in this
16 application fall under the Exemption Order OHK-11 under the Environmental
17 Assessment Act (Order in Council 2887/76, dated Oct 14, 1976) filed in Exhibit B,
18 Tab 6, Schedule 8. Hydro One has requested a Declaration Order from the Ministry
19 of Environment to exempt the new station from EA Act approval consistent with
20 other existing facilities within the Parkway Belt.

21
22 9. Hydro One has consulted stakeholders in the area to identify potential concerns
23 associated with the construction and operation of the proposed transmission facilities.
24 The feedback received from stakeholders was considered and incorporated into the
25 preparation of this Application. The stakeholder process may be found in Exhibit B,
26 Tab 6, Schedule 7. Hydro One will continue to consult with the local community and
27 other interested stakeholders to ensure potential concerns during the construction and
28 commissioning stages of the proposed facilities are addressed.

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10. This Application is supported by written evidence. This evidence includes details of the Applicant's proposal for the new transmission reinforcement. The written evidence is pre-filed as attached and may be amended from time to time, prior to the Board's final decision on this Application. Further, the Applicant may seek meetings with Board Staff and intervenors in an attempt to identify and reach agreements to settle issues arising out of this Application.

11. Hydro One requests a written hearing for this proceeding.

12. Hydro One requests that a copy of all documents filed with the Board be served on the Applicant and the Applicant's counsel, as follows:

a) The Applicant:

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1 The Applicant's counsel:

2

3 Mary Anne Aldred

4 Senior Legal Counsel,

5 Hydro One Networks Inc.

6

7 Mailing Address: 15th Floor, North Tower

8 483 Bay Street,

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11

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13 Fax: (416) 345-6972

14 Electronic access: m.a.albred@HydroOne.com

15

16

1 The proposed facilities are in the public interest since they:

- 2
- 3 • will improve the reliability and quality of electricity service to consumers of the GTA
4 West, including the Western Brampton and Northern Mississauga Areas as well as to
5 Toronto and points beyond by providing relief to the network transmission lines
6 connecting Trafalgar TS to Richview TS;
 - 7 • will limit the load loss to 500 MW in case of a 2-circuit fault at any point on the line
8 R19T/R21T thus enhancing availability of electricity service to consumers in the
9 Western Brampton and Northern Mississauga Areas; and
 - 10 • will reduce Ontario system losses by 4 MWs (as stated in IESO's System Impact
11 Assessment (SIA) filed as Exhibit B, Tab 6, Schedule 3, page 17).

12

13 The two identified needs described in Exhibit B, Tab 1, Schedule 2 are resolved by this
14 project. These needs include; (a) limiting load loss to 500 MW for an outage of a double-
15 circuit line; and (b) relieving R19T/R21T circuits out of Trafalgar TS.

16

17 The proposed facilities are endorsed by the LDCs, OPA and IESO. The proposed
18 facilities are consistent with the OPA's longer term plan for the area, in that the facilities
19 will also provide additional capability for future east-west transmission line expansions to
20 increase transfer capability into the Toronto area, from the west, and to accommodate
21 further load growth in GTA West beyond the next ten year horizon.

22

23 The IESO initially identified the needs related to this project in their March 31,
24 2003 10-Year Outlook. The IESO reinforced the need for transmission
25 enhancements in GTA West in its June 2006 Ontario Reliability Outlook filed as
26 Exhibit B, Tab 6, Schedule 6.

1 In Table 3, at page 17, of the same exhibit, the IESO specifically identifies the need to
2 improve supply to north Mississauga and Brampton loads by the spring of 2009. In order
3 to fulfill the reliability needs the IESO noted the requirement to establish Hurontario SS
4 on circuits R19T and R21T and extend and connect circuits V72R and V73R from
5 Cardiff TS.

6
7 The IESO has carried out its System Impact Assessment (SIA) of the proposed facilities
8 in accordance with the Grid Connection Requirements of the Market Rules and the
9 associated IESO Connection Assessment and Approval Process. The IESO's SIA filed as
10 Exhibit B, Tab 6, Schedule 3 confirms the need for this project and indicates that Hydro
11 One's proposed transmission solution meets the objective of the SIA in that the solution
12 is adequate and does not adversely impact the IESO-controlled grid.

13
14 The need was also assessed in a joint utility planning study carried out by Hydro One and
15 five LDCs in GTA West. A copy of the joint study, resulting in a report entitled "GTA
16 West Supply Study" (Joint Study), issued February 16, 2006, is at Exhibit B, Tab 6,
17 Schedule 5.

18
19 It is customary for Hydro One to carry out a Customer Impact Assessment (CIA) in
20 accordance with its customer connection procedures to determine the impact on
21 customers of the proposed facilities. However, as the LDCs were participants in the joint
22 study to determine the required reinforcement in the West GTA area, and they would be
23 the only customers directly affected by the proposed facilities, a formal CIA was not
24 conducted for this proposal. The joint study concluded that there was no adverse impact
25 to the customers.

26
27 The total cost of the project is estimated to be \$42 million.

1 The proposed new facilities are network assets with the costs included in the network
2 pool. These costs are to be recovered through incremental transmission network rates.

3

4 The design of the proposed facilities is in accordance with good utility practice and meets
5 the requirements of the Transmission System Code for licensed transmitters in Ontario.

6

7 In the early 1970's the Parkway Belt was established as a multi-use corridor, with part of
8 it being designated for utility use servicing what is now the GTA. The proposed facilities
9 in this application fall under the Exemption Order OHK-11 under the Environmental
10 Assessment Act (Order in Council 2887/76, dated Oct 14, 1976) and filed as Exhibit B,
11 Tab 6, Schedule 8. Known as the Parkway Belt Exemption, the exemption applies to the
12 planning, designing, constructing, operating and maintaining of the transmission lines,
13 transformer stations and switching stations anticipated at that time. Accordingly, the
14 230 kV transmission line is exempt under Order OHK-11. Hurontario SS was not
15 foreseen at the time the Exemption Order OHK-11 was granted. Hydro One has therefore
16 requested a Declaration Order from the Ministry of Environment to exempt the new
17 station from EA Act approval consistent with other existing facilities within the Parkway
18 Belt.

19

20 Hydro One has consulted with key stakeholders in the area to identify potential concerns
21 associated with the construction and operation of the proposed transmission facilities.
22 The feedback received from stakeholders was considered and incorporated into the
23 preparation of this Application. Details regarding the consultation process and results are
24 filed at Exhibit B, Tab 6, Schedule 7.

25

26 Letters of support for the proposed facilities have been obtained from the following
27 stakeholders;

28

- 1 1. The Ontario Power Authority
- 2 2. Hydro One Brampton
- 3 3. Enersource Hydro Mississauga
- 4 4. The Region of Peel
- 5 5. The City of Brampton

6

7 These letters are filed at Exhibit B, Tab 6, Schedule 2.

8

9 A detailed construction schedule can be found at Exhibit B, Tab 5, Schedule 2. This
10 schedule assumes Board approval by January 2007 to enable a May 2009 in-service date.

11

12 Hydro One requests a written hearing and submits that the evidence as submitted
13 supports granting the requested Order based principally on the following grounds:

14

- 15 • The need for new network facilities has been established;
- 16 • This need would still exist, regardless of whether new generation resources or
17 conservation and demand management initiatives materialize.
- 18 • The need for the project is supported by the LDCs in the City of Brampton and
19 Mississauga as well as the City officials themselves;
- 20 • The need for the project is endorsed by the OPA and IESO;
- 21 • The facilities will improve system reliability;
- 22 • The OPA considered alternatives other than transmission (i.e. new generation and
23 conservation) and determined that the proposed transmission facilities address the
24 need as soon as possible, as stated in their letter of support found in Exhibit B, Tab 6,
25 Schedule 2.
- 26 • The proposed facilities are consistent with the OPA's longer term plan for the area, in
27 that they will also provide additional capability for future east-west transmission line
28 expansions;

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Exhibit A

Tab 2

Schedule 1

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- 1 • There are no adverse system or customer impacts from the project; and
2 • The project is fully compliant with the relevant codes, rules and licenses.

3

4 For the reasons provided in support of this Application, Hydro One respectfully submits
5 that the proposed transmission reinforcement within the City of Brampton is in the public
6 interest and should be approved under Section 92 of the *OEB Act, 1998*. Accordingly,
7 Hydro One requests an Order from the Board pursuant to Section 92 of the *Ontario*
8 *Energy Board Act* granting leave to construct the proposed facilities by January 30, 2007.

9

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Exhibit A
Tab 3
Schedule 1
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1

PROCEDURAL ORDERS/AFFIDAVITS/CORRESPONDENCE

2

1

NOTICE OF MOTION

2

EXHIBIT LIST

1
2

<u>Exh</u>	<u>Tab</u>	<u>Schedule</u>	<u>Contents</u>
<u>A</u>			<u>Administration</u>
	1	1	Application
	2	1	Summary of Prefiled Evidence
	3	1	Procedural Orders/Affidavits/Correspondence
	4	1	Notices of Motion
	5	1	Exhibit List
<u>B</u>			<u>Applicant's Prefiled Evidence</u>
	1	1	Project Location and Existing Transmission System
		2	Map of Existing Facilities
		3	Need for the Proposed Facilities
	2	1	Description of Proposed Facilities
		2	Maps showing location of Proposed Facilities
		3	Simplified Schematic Diagram of Proposed Facilities
		4	Cross Section of the Tower Types - existing and proposed
	3	1	Transmission Alternatives Considered
	4	1	Project Costs, Economics, and Other Public Interest Considerations
		2	Project Costs

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Exhibit A

Tab 5

Schedule 1

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<u>Exh</u>	<u>Tab</u>	<u>Schedule</u>	<u>Contents</u>
		3	Project Economics
		4	Other Public Interest Considerations
5		1	Construction and Project Administration
		2	Table Showing Construction and In-Service Schedule
6		1	Other Matters / Agreements / Approvals
		2	Customer Letters of Support for the Project
		3	IESO's Notification of Conditional Approval and System Impact Assessment
		4	Customer Impact Assessment
		5	Joint Utility Planning Study
		6	The Ontario Reliability Outlook June 2006
		7	Stakeholder and Community Consultation
		8	Environmental Approval Declaration Order/ Exemption Order